

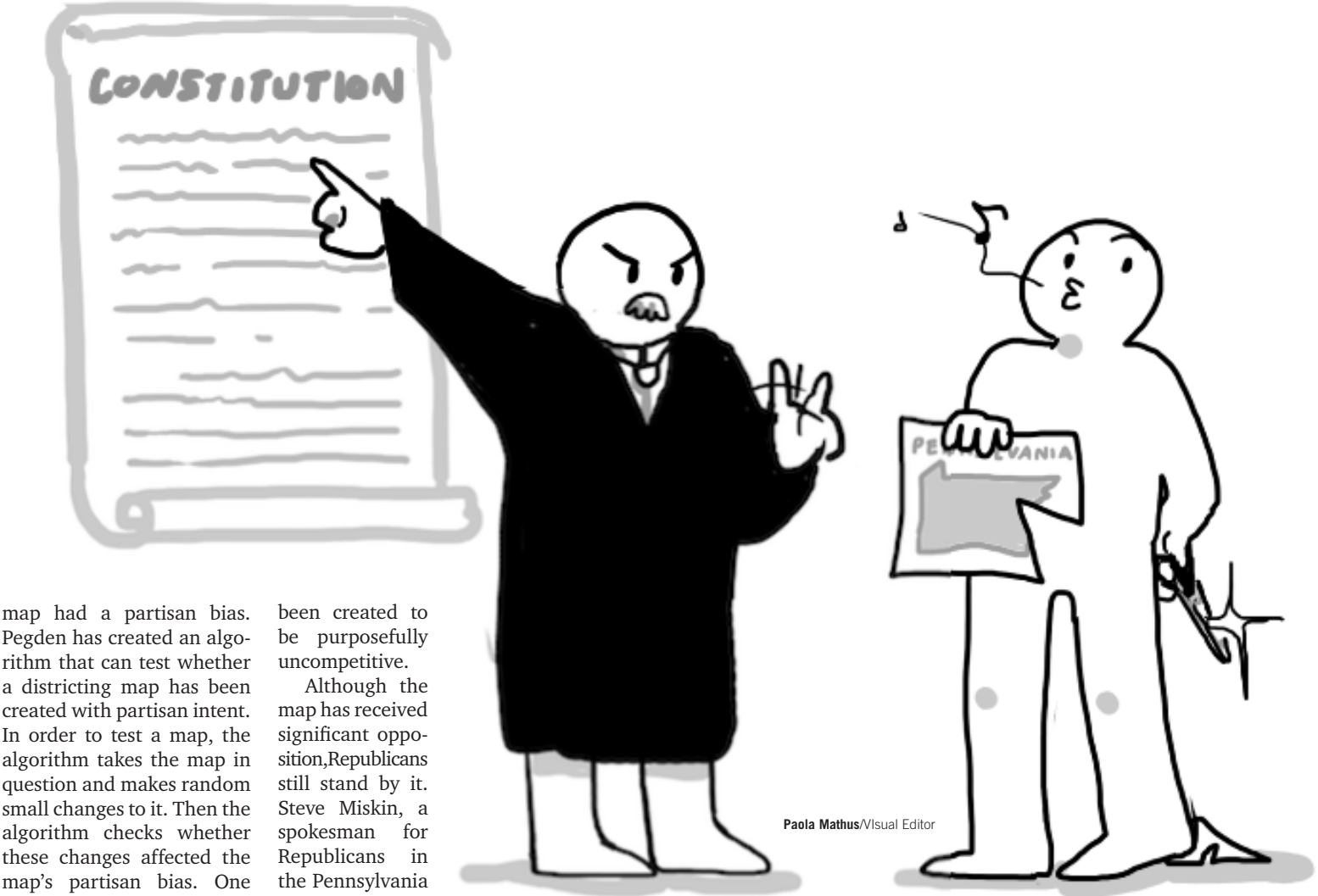
# Pennsylvania Supreme Court rejects map as unconstitutional

LYDIA GREEN  
Staffwriter

Last Monday afternoon, the Pennsylvania Supreme Court ruled that Pennsylvania's congressional district map, which was approved in 2011, violates Pennsylvania's state constitution. In this case, a group of Pennsylvanians, including the League of Women Voters of Pennsylvania, has sued the Commonwealth of Pennsylvania claiming that the map was created by Republicans to stifle the voice of Pennsylvania Democrats in an attempt that "strikes at the foundation of representative democracy."

The petitioners argued that the congressional map employs the gerrymandering methods of "packing" and "cracking," meaning that the map was seemingly drawn to pack Democratic voters into just a few districts while cracking the rest of the Democratic electorate into pieces throughout the remaining districts. Critics claim that this map deprives Democratic voters of their voting power. In the last seven years since the passage of this map, Republicans have consistently held 13 of the 18 congressional districts of Pennsylvania even when Democratic candidates won a majority of votes statewide.

As part of the testimony, petitioners called Carnegie Mellon professor Wesley Pegden to testify that the



map had a partisan bias. Pegden has created an algorithm that can test whether a districting map has been created with partisan intent. In order to test a map, the algorithm takes the map in question and makes random small changes to it. Then the algorithm checks whether these changes affected the map's partisan bias. One can then determine using probabilities whether a map has been rigged along party lines. Pegden showed that when the Pennsylvania congressional district map was plugged into the algorithm, making small changes almost always made the map more competitive. The court used Pegden's algorithm as evidence that the map had

been created to be purposefully uncompetitive.

Although the map has received significant opposition, Republicans still stand by it. Steve Miskin, a spokesman for Republicans in the Pennsylvania State House of Representatives said in a *Pittsburgh Post-Gazette* interview, "Some cynics might question the timing, after three elections of not saying a word about these maps." In response to this doubt, David Gersch, a lawyer for the petitioners explained that the suit was not filed until now so

that there would be enough real evidence of the effects of the map on elections. Drew Crompton, the general counsel to Republicans in the Pennsylvania State Senate, also defended the map, calling the suit "baseless" in the *Pittsburgh Post-Gazette* and pointing out

that 36 Pennsylvania House Democrats had voted for the map.

On Jan. 23, the day after the Pennsylvania court's decision, a group of Republicans from the Pennsylvania State House and Senate applied for the court to grant a stay on

their order, meaning that the ruling wouldn't go into effect until after the 2018 congressional elections. The court denied this application two days later.

Historically, courts have hesitated to rule in political

See **COURT**, A3

# Data Privacy Day event showcases Carnegie Mellon research

ADAM TUNNARD  
Junior Staffwriter

As technological growth in the 21st century continues its exponential climb, data and the internet weave themselves into the fabric of society in seemingly irreversible ways. Data privacy, or how data is distributed and collected in relation to the public, has been a growing concern of most internet users due to unprecedented technological progress. Each year since 2014, this particular issue is brought to light here at Carnegie Mellon University in observance of International Data Privacy Day.

Dr. Lorrie Faith Cranor, an organizer of the event, said in an email to The Tartan that "privacy loss tends to sneak up on people," and she hopes that the event helps "educate people about these issues and show them some tools they can use to protect themselves."

This event, which also sought to publicize Carnegie Mellon's innovative Privacy Engineering Master's program, was an open, public showcase of the great research being done at Carnegie Mellon and how it can apply to our lives. Graduate and doctoral students presented their research in and around the Connan

Room of the Cohon Center, on topics from cybersecurity information sharing, to health app privacy concerns.

There was much emphasis on general privacy in the "internet of things," or the network of all manifestations of the internet: including smartphones, computers, software, sensors, and everything's network connectivity. One of the presenters was Daniel Smullen, a PhD student in Software Engineering, who noted that "we don't have implicit rights to privacy in the internet of things." Because of this lack of implicit

privacy, he and other researchers have spent the last few years developing a personal "privacy assistant" website and app that alerts users of the various data collection techniques we are subjected to daily, from wifi routers, to facial recognition cameras, to location tracking.

Such presentations on research findings were prevalent, but in addition, booths were set up to educate the Carnegie Mellon community on how to protect their own privacy. One booth allowed people to type in a password they frequently use and test how strong it actually is. Another handed out flyers

about how to avoid privacy intrusions on Facebook or Snapchat. One taught how to opt out of targeted advertising that operates by tracking your actions on the internet and selling your data.

Dr. Cranor believes that "most people care about their privacy and want to protect it, but a lot of people don't know what they can actually do to protect their privacy." The educational exercises in the Connan Room were aimed at allowing those who want to protect their data to gain the knowledge to do so.

The research and presentations suggested that the movement for data privacy, comprised of top academics and researchers as well as ordinary internet users, is only going to continue to grow in the wake of the general public's realization that the internet isn't as private as they might expect.

The issue of privacy in the 'internet of things' is an issue that is relevant to almost all of the three billion people that currently have access to the internet. Events like International Data Privacy Day bring together academic institutions, companies, governments, and

the general public to create a fruitful conversation on an impactful and topical issue.

At Carnegie Mellon, it was no different. That being said, if you were not able to attend, or happened to miss the many bubbling graduate students donning "Privacy Matters" shirts in the Cohon Center, there is access to many of the resources presented at the event at the Carnegie Mellon University Privacy Day website, located at <http://cups.cs.cmu.edu/privacy-day/2018/>. Many of the presentations and educational resources are archived and available.

As a school that exports so much innovation and educates many future creators of technology, Carnegie Mellon University also has a responsibility to also educate people on the ethical implications of certain privacy-infringing technologies. With important events like Data Privacy Day happening on campus, new research being conducted and presented to understand the breadth of the issue, and more programs like the Master's in Privacy Engineering that is being offered at the School of Computer Science, it is hard not to feel more hopeful about the future of data privacy research and awareness.





FEATURE PHOTO

# Second Pittsburgh Women’s March draws crowd



On Sunday, Jan. 21, a crowd that included Carnegie Mellon University students and organizations gathered in downtown Pittsburgh for the second annual Women's March with signs and chants. Evangeline Liu/Staff Photographer

## Campus Crime & Incident Reports

### Theft of Wallet

Jan. 20, 2018

A Carnegie Mellon student alerted University Police that his wallet was unlawfully taken from the Wiegand Gym while he played basketball. An investigation is ongoing.

### Disorderly Conduct

Jan. 20, 2018

An odor of marijuana was reported to University Police at Resnik House. University Police seized marijuana, drug paraphernalia, and alcoholic beverages. An investigation is ongoing.

### Defiant Trespass

Jan. 21, 2018

University Police responded to Resnik Café for a report of a disorderly employee. A Café employee was escorted off of campus and issued a defiant trespass warning.

### Theft from Entropy

Jan. 22, 2018

Entropy staff alerted University Police that a male attempted to unlawfully

take food items from the store. An investigation is ongoing.

### Theft of Wallet

Jan. 22, 2018

A student’s wallet was unlawfully taken from the fitness center in the Cohon Center while he exercised. An investigation is ongoing.

### Theft by Deception

Jan. 23, 2018

A student informed University Police that she was contacted by an unknown male who told the student an arrest warrant had been issued for her failure to complete all appropriate paperwork with her FAFSA loan. The man asked for a large amount of money in iTunes gift cards to settle the case. An investigation is ongoing.

### Theft of School Sign

Jan. 23, 2018

University Police while on a call for service inside a student’s residence discovered a Carnegie Mellon University sign which belonged to the University.

### Theft of Laptop

Jan. 21, 2018

A Carnegie Mellon staff member reported to University Police that her laptop was unlawfully taken from the Gates Hillman Complex. An investigation is ongoing.

### Request for Assistance

Jan. 25, 2018

A staff member reported to University Police that she discovered an unknown white powder in a plastic bag inside a purse she had recently purchased from a thrift store. Field tests of the powder determined it was cocaine which was seized by University Police. An investigation is ongoing.

### Firearm Policy Violation

Jan. 25, 2018

A University Security Officer discovered a firearm inside a found bag which was in a secure room inside Wean Hall. An Aramark employee was determined to have a valid concealed carry permit, but was terminated and issued a defiant trespass warning.

### Theft By Deception

Jan. 25, 2018

A student reported to University police that an unknown male approached him on Morewood Avenue and requested \$20 for a locksmith. An investigation is ongoing.

### Vehicle vs. Pedestrian

Jan. 26, 2018

University Police responded to South Craig Street for a male who was struck by a vehicle. A non-affiliate was provided with medical attention and Pittsburgh Bureau of Police is investigating this incident.

### Theft by Deception

Jan. 26, 2018

A student alerted University police that an unknown male approached her on Morewood Avenue and requested \$40 for a locksmith. An investigation is ongoing.

Compiled by  
NORA MATTSO

## WEATHER

Source: [www.weather.com](http://www.weather.com)

### TUESDAY



27° / 16°

### WEDNESDAY



42° / 37°

### THURSDAY



41° / 21°

### FRIDAY



26° / 15°

### SATURDAY



29° / 25°

### SUNDAY



40° / 27°

## Corrections & Clarifications

If you would like to submit a correction or clarification, please email The Tartan at [news@thetartan.org](mailto:news@thetartan.org) or [editor@thetartan.org](mailto:editor@thetartan.org) with your inquiry, as well as the date of the issue and the name of the article. We will print the correction or clarification in the next print issue and publish it online.



## SOCIAL ACTION CALENDAR

# FORWARD!

a few of this week's activism opportunities at Carnegie Mellon

**MLK STUDENT WORKSHOP: ENGAGING IN ACTIVISM**  
5PM-6:30PM  
CUC, CENTER FOR STUDENT DIVERSITY AND INCLUSION

January 31

**ALLIES MEETING**  
EVERY WEDNESDAY AT 5PM  
CUC 335 (ABOVE AU BON PAIN)

January 31

**MLK INTERFAITH PRAYER BREAKFAST KING**  
8:30AM (RSVP ONLINE)  
CUC, CONNAN ROOM

February 2



# Carnegie Mellon donates chairs to University of Puerto Rico

EVANGELINE LIU  
Staffwriter

When Hurricane Maria hit Puerto Rico last Sept., much of the island’s infrastructure was devastated. This month saw a renewed effort by groups at Carnegie Mellon to provide relief after the tragedy. In mid-Jan., nearly four months after the hurricane, there were pictures posted to Twitter of families with children still living in tents. According to the website *status.pr*, which chronicles statistics on vari-

ous aspects of the island’s recovery, power generation is at 83 percent as of Friday, Jan. 26, while 69 percent of the island has electricity. CBS News correspondent David Begnaud pointed out in his near-daily status update on Puerto Rico, via his Twitter, that about 450,000 islanders remain without power.

The infrastructural devastation included damage to the University of Puerto Rico at Mayaguez (UPRM), located in Mayaguez, a city on the western coast of the

island. As part of the wave of efforts by the Carnegie Mellon community to lend a hand to Puerto Rico, the university shipped 342 arm-table classroom chairs to UPRM, which are expected to arrive this month.

UPRM was chosen in part because Carnegie Mellon’s College of Engineering’s leadership had connections there. A group from the College of Engineering had visited UPRM in the summer of 2016 and met with colleagues there to discuss possible collabora-

tions, according to Dean James Garrett, Jr. of the College of Engineering, in an interview with The Tartan. “Shortly after Hurricane Maria devastated Puerto Rico, I reached out to [Genock Portela, a professor and executive assistant at UPRM]. . .to ask him how we could be most helpful to them here at [Carnegie Mellon],” recalled Garrett.

Garrett was then given what he termed an “extensive list” of equipment that UPRM needed to get itself back on its feet, which

included desks and chairs to replace those damaged by the storm.

“I contacted my colleagues Ramayya Krishnan in the Heinz College, Heinz Associate Dean Ann English, and Don Coffelt, Associate Vice President for Facilities Management and Campus Services and [Civil and Environmental Engineering] faculty member, about this list to determine what we might be able to send them,” Garrett said, about the process in the interview. “We recognized that they needed desks and tables since they were damaged in the hurricane. We then realized that because we are renovating our classrooms, we have desks and tables we could donate to them.”

Coffelt then enlisted the help of the organization Brother’s Brother to help them transport the school furniture to UPRM.

“[Brother’s Brother Foundation’s] specialty is logistics — getting things from people who have it to people who need it, efficiently and at a low cost,” said Coffelt in a university press release.

On Jan. 10, the chairs were packed and shipped to New Jersey, where they were put on a ship to the is-

land, according to the press release. In an emailed statement to The Tartan, UPRM’s Portela said that he was expecting the shipment of chairs within a few days.

The praise between Brother’s Brother and Carnegie Mellon goes both ways. Luke Hingson, the foundation’s president, told the university that “[i]t was easy for [the foundation] to say yes to this project because of the quality of the partners involved on the giving side and the receiving side.”

This is not the only time Brother’s Brother has assisted in a Carnegie Mellon effort to help Puerto Rico. The foundation was also involved in helping Rosana Guernica, a junior at Carnegie Mellon who crowdfunded charter planes to deliver supplies to Puerto Rico and evacuate islanders who were in need of medical treatments not available post-hurricane, as well as their families. The Tartan reported on this effort last semester.

In a press release, Garrett was heartened by the teamwork involved the chair donation effort. “It was truly a collaborative effort that epitomizes what we do here at [Carnegie Mellon].”



Courtesy of UPR\_RUM via Flickr Wikimedia Commons  
The portico at University of Puerto Rico at Mayaguez campus, pictured here before Hurricane Maria caused infrastructural damage.

# Gerrymandered map thrown out in PA Supreme Court case

COURT, from A1

cases, claiming that politics exists in the legislative domain. *Baker v. Carr* in 1962 was the first Supreme Court case to step into the “political thicket” and rule against a redistricting practice. In general, courts have found racial gerrymandering to

be unconstitutional but not partisan gerrymandering, largely because it has been difficult to measure partisan affiliation because, unlike race, a voter could potentially change political parties from one election to another out of no fault of a district map. Consequently, in U.S. Supreme Court cases in 1986, 2004, and 2006,

justices called partisan gerrymandering “illegitimate, seriously harmful, incompatible with democratic principles and ‘manipulation of the electorate,’” but did not rule against the practice because it was difficult to draw the line between political and unconstitutional. This Pennsylvania case is one of a number of cases

of alleged Republican gerrymandering of state congressional district maps. The Republican strategy in 2010 was to take control of state legislators so that the party could control the redistricting efforts across the country after the 2010 census. With the 2018 congressional elections looming, many of these maps are

being taken to court. Most notable is *Gill v. Whitford* in Wisconsin, which has made it all the way to the U.S. Supreme court. One dissenting justice in the Pennsylvania case argued in his dissent that Pennsylvania should hold off on changing its congressional map until after a ruling is decided in the national case.

However the Supreme Court rules in *Gill v. Whitford*, and the Pennsylvania ruling means that the state will get a new district map. Experts say that if the court rules against gerrymandering in this national case, up to 20 states will be required to join Pennsylvania in throwing out their congressional maps too.

## STUDENT GOVERNMENT COLUMN



## Carnegie Mellon University Senate

LORRAINE ZHANG  
Special to The Tartan

The Carnegie Mellon University Undergraduate Student Senate is seeking representatives. The Undergraduate Student Senate represents student interests in a multitude of issues in everything from interfacing with administration to putting on events to connect students to Pittsburgh and the campus community. We are currently looking for passionate, motivated individuals who are interested in improving the experiences of the undergraduate student body and making positive changes to serve on the body.

There are two types of representative seats available: Member at Large and Senator. Both Members at Large and Senators may sit on one of the standing committees: Academic Affairs, Business Affairs, Campus Life, Communications, Finance, and Internal Development. Members at Large may also sit solely on the Advocacy committee. Senators and Members at Large have the same rights and privileges on Senate, with the exception of voting.

There are no caps on the number of Member at Large seats, but Senator seats are capped

at 140 students per representative, by college. The current vacancies for Senator seats are as follows:

- CIT:** 9
- CFA:** 4
- Dietrich:** 1
- SCS:** 2
- MCS:** 3
- Tepper:** 2

Interested students should come to the Vacancy Elections being held on Thursday, Feb. 1 from 5:00 to 6:30 p.m. in the Danforth Conference Room in the Cohon Center. To run for a Senator seat, candidates must fill out a petition found on our website at [cmusenate.org/get-involved](https://www.cmu.edu/cmusenate.org/get-involved) with the signatures of 25 students from their home college. Both Senator and Member at Large candidates should come prepared with a brief two-minute speech on their interests and qualifications and should be prepared to answer questions from the body.

More information on Senate, its current initiatives, and the election process may be found at [cmusenate.org](https://www.cmu.edu/cmusenate.org) and on our Facebook page at [facebook.com/cmusenate](https://www.facebook.com/cmusenate). For further inquiries, please message the Facebook page or email [student-senate@andrew.cmu.edu](mailto:student-senate@andrew.cmu.edu).

Interested in becoming an

Orientation Counselor

for the Class of 2022+?

OC Info Sessions

(not mandatory)

TUES Jan 30<sup>th</sup>

6 – 6:45 pm | Dowd Room, Cohon Center

WED Feb 7<sup>th</sup>

6 – 6:45 pm | Dowd Room, Cohon Center

Application Timeline

MON Feb 5<sup>th</sup>

Applications available during this week at

<https://www.cmu.edu/student-affairs/orientation/oc/index.html>

TH Feb 22<sup>nd</sup>

Applications DUE

Questions?

Email [cmuorientation2018@gmail.com](mailto:cmuorientation2018@gmail.com)!



# Forum

FROM THE EDITORIAL BOARD

## #MeToo movement deserves greater coverage

The national and public conversation about sexual harassment started for many with a *New York Times* notification on their phone that linked to a story, written by Megan Twohey and Jodi Kantor, that detailed instances of abuse and sexual misconduct at the hand of powerful producer Harvey Weinstein. Much of the public conversation has been built on the backs of powerful reporting done by hardworking journalists and the testimony of brave men and women that fuel these stories.

But journalistic institutions have not always pursued such reporting as avidly as they perhaps ought to, sometimes in the interest of not wanting to make powerful enemies, or shying away from stories they deem as too controversial. Notably, NBC passed on Trump’s “pussy” tape, which eventually was published by *Access Hollywood*. Months later, they passed again on the Weinstein story though it was brought to them by their own contributor, Ronan Farrow, and, according to Farrow in an interview with MSNBC, there had been “multiple determinations that it was reportable.”

Additionally, focus in coverage has leaned toward celebrities accused of sexual harassment. Many of the actors wearing black and Time’s Up pins at the Golden Globes had either worked with people being accused of sexual harassment or had faced sexual harassment allegations themselves. An abstract commitment by public figures to end a culture that they themselves are perpetrating does little to affect the actual systemic issues at play. The Time’s Up organization itself, and many of the actors involved, were careful to make it clear that

the problem did not begin and end with Hollywood, with activists such as Monica Ramirez, who works to defend the rights of migrant workers, Tarana Burke, activist for women of color and founder of the #MeToo movement, and Marai Larasi, who works to combat gender-based violence, brought as dates by actors affiliated with the organization.

Though much of the public attention has centered around stories that involve the rich and famous, some of the most powerful reporting that this movement has spawned has focused on the pervasive problem of harassment

Arguably the worst thing that could happen to the #MeToo movement would be to stifle the coverage that has prompted so much reevaluation on a societal scale.

and sexual assault that touches workers on the factory floor at Ford or in the hospitality industry or in public housing. Though these stories may have received less attention, they highlight the potential of good journalism to expose issues that may be harder to cover because they are systemic, or affect people with less of a societal voice.

Sometimes, there is question about whether stories should

be covered at all, markedly, the *babe.net* story about a questionable sexual encounter involving actor and comedian Aziz Ansari. One of the most outspoken critics was *The New York Times* staff editor Bari Weiss, who, in an opinion piece, called the article “arguably the worst thing that has happened to the #MeToo movement.”

Arguably the worst thing that could happen to the #MeToo movement would be to stifle the coverage that has prompted so much reevaluation on a societal scale. It is possible to argue that reactions may not always be proportional, or that the movement, like most that happen on such a large scale, may lack some nuance, but recent examples have seemed not to have borne this theory out. Consequences have differed depending on what is alleged, and have ranged from mild public shaming to legal moves. Moreover, refusing the public the chance to even be allowed to dissect and classify these instances does them a disservice. The role of journalism in this movement is to place well reported newsworthy stories in the public forum while keeping a commitment to high-quality reporting.

At the sentencing this past week of Larry Nassar, doctor and pedophile, Assistant Attorney General Angela Povialitis claimed that without a 2016 story in the Indianapolis Star, and the courage that it took for survivor Rachael Denhollander to contact them, Nassar would still be working as a doctor. Povialitis stated, “what finally started this reckoning and ended this decades-long cycle of abuse was investigative reporting.” Such is the power of diligent reporting at this moment.



Anna Boyle/ Art Editor

## Student activities fee allocation outdated

SHLOK GOYAL  
Junior Staffwriter

Much like how voters rarely glance below the top tickets on the ballot, students often don’t take time to glance below the tuition, housing, and meal costs on their Carnegie Mellon bill. If they did, they would notice the largest fee that they have to pay to attend Carnegie Mellon—the activities fee, at a cool \$129/semester for undergraduates and \$107 for graduates this academic year.

As its name suggests, this is the fee that funds most of the student organizations on campus. However, for such a significant fee, it is determined based on an outdated model, which itself is largely arbitrary.

Since at least the 2014-15 academic year, when the undergraduate activities fee was \$123 and the graduate fee \$101, the fee has changed by \$2 for both groups every single year. There is no science behind this, no rationale, only a self-perpetuating cycle of constant \$2 increases.

Next year’s fee of \$131 for undergraduates and \$108 for graduates seems like it has some science behind it, indexed as it is to the Consumer Price Index, a measure of inflation meant to measure changes in standard of living. However, students’ travel and pizza costs—the primary uses for the activities fee funds—are barely measured by this index. As a result, while this inflation measure might work well for economists, it is useless for our purposes.

The lack of thought that has historically gone into determining the fee each year is not only remarkable—over \$2 million are on the line annually—it is also detrimental for students’ experiences at Carnegie Mellon.

This is because the university is consistently failing to meet students’ financial demands for their extracurricular activities. Between the 2009-10 and 2014-15 years, the amount of funds requested from the Joint Funding Committee (JFC), the group of students charged with allocating the activities fee to each student organization on campus, increased 36.26 percent. Over these same five years, the amount the JFC recommended increased by a roughly commensurate 36.06 percent.

However, between 2014-15 and 2017-18, the requested amount increased by a further 35.97 percent, but the recommended amount only increased 17.86 percent. While students are requesting 7.98 percent more money each year, the JFC is only recommending 4.19 percent more. This has caused the gap between the requested and recommended amounts to go from less than \$600,000 in 2014-15 to over \$1 million this year.

Clearly then, demand for the students’ activities funds has been rising, but supply has not. The increase in demand is likely due to the greater number of student organizations on campus (255 organizations applied for JFC funding for this academic year as opposed to the 221 applying for 2014-15) and that each organization is attending or hosting more events and thus spending more money.

The solution to this underfunding problem starts with amending the way the student activities fee is determined. Instead of deciding upon an arbitrary increase, the Student Body Vice President of Finance (SBVPF) should study the changes in the costs Carnegie Mellon organizations incur.

One way to do this would be by looking at line items an organization has had for the past three years and tracking the change in costs for those line items. Taking a random sample of such line items across all organizations would create a measure which the activities fee increase could be indexed to. This would thus more accurately reflect increases in student organizations’ costs than a frivolous \$2 increase.

A cruder but easier-to-implement method would first take the average annual percentage increase in the requested amount of funds between the last four years, weighted to emphasize increases in the most recent years. Then, the resulting percentage is the proportional increase we want to see in the JFC’s recommended amount that year. It is straightforward to back-calculate the activities fee from that figure.

These empirical approaches would likely lead to higher activities fee if implemented without other changes, at least in the short term while Carnegie Mellon continues adding more organizations and existing organizations discover new outlets that require funding.

Since these causes are likely temporary, they can be resolved by tapping into JFC’s reserves. The reserves exist precisely for this kind of ephemeral rise in demand and should be used to ensure that student organizations get the money they need at low cost to the overall student body. Furthermore, organizations usually tend to spend less than their entire budget each year, which means that even after drawing from the reserves, we will not deplete it significantly for future years.

Second, the university needs to better support student organizations looking for outside sponsorships. While the university has great relationships with corporations, institutions, and alumni that it leverages when it comes to funding new buildings or research, the university should better extend those relationships to help students secure funding for their organizations.

Many students either don’t know that such sponsorships are feasible options or lack the contacts to make them happen. The university can improve this state of affairs by better communicating how organizations can acquire outside funding, provide more extensive training on how to do so at events like the Tartan Leader Conference, and be willing to use their relevant contacts for organizations’ benefit rather than just for the administration’s initiatives.

If more organizations can secure outside funding, it will reduce the pressure on student activities fees to cover all the costs while teaching students practical skills on marketing an idea and

See **ACTIVITIES FEE**, A6

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## THE TARTAN

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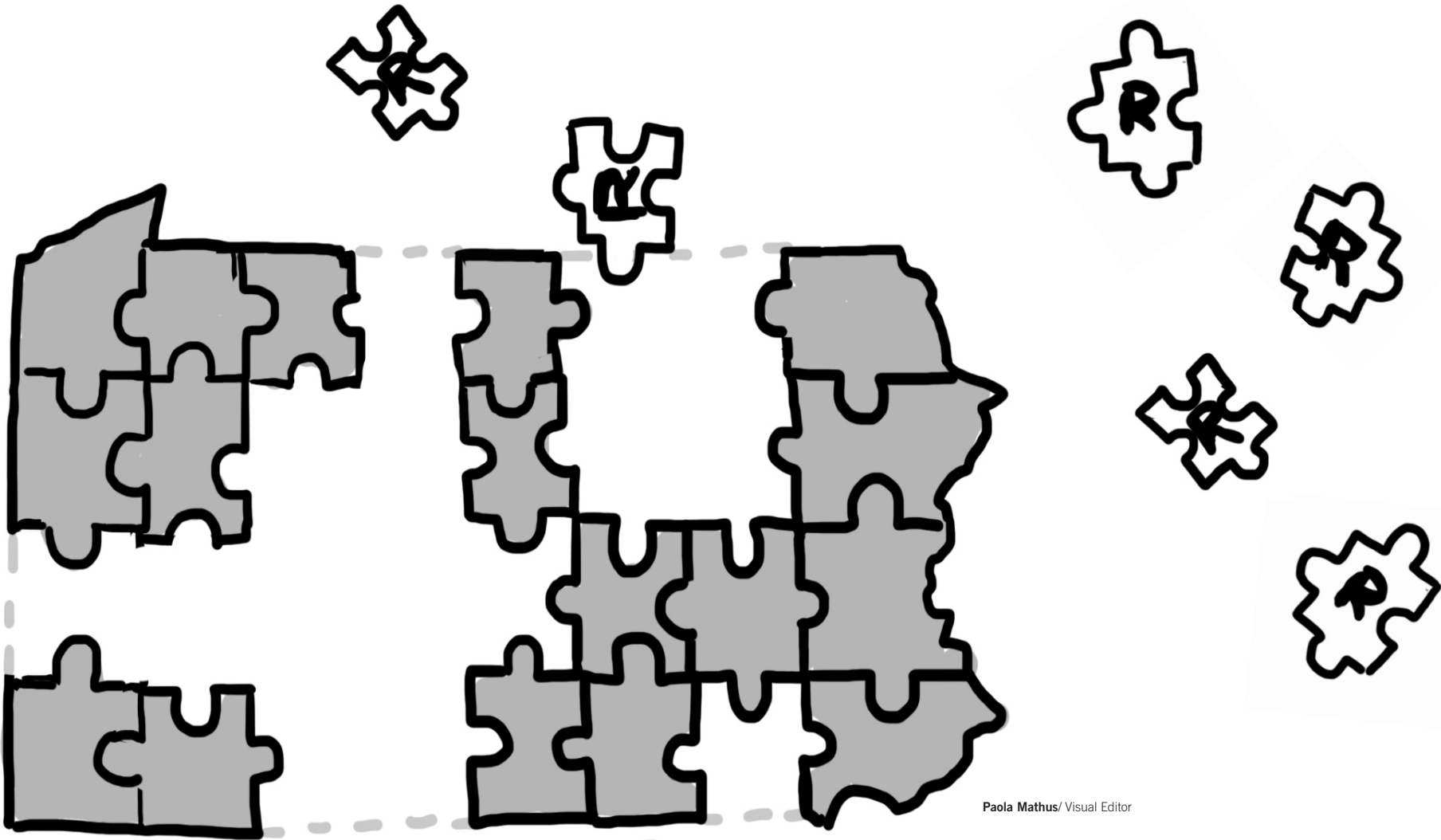
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Office: Cohon Center 314  
Web: www.thetartan.org  
E-mail: contact@thetartan.org

Mail:  
The Tartan  
Box 119, UC Suite 103  
5000 Forbes Avenue  
Pittsburgh, PA 15213



# Pennsylvania gerrymandering degrades democractic ideals



**TREVOR LAZAR**  
*Junior Staffwriter*

The Pennsylvania Supreme Court’s recent 4-3 ruling which struck down the egregiously gerrymandered congressional map serves as an important example and precedent for an issue that is already being argued in the U.S. Supreme Court. The map in question skewed so far to favor Republicans that it was ruled unconstitutional in the recent Pennsylvania decision. With multiple gerrymandering cases now reaching the U.S. Supreme Court, this case stands as an important example of potential for major change. That change might just be a national ruling that could be used to dismantle numerous gerrymandered congressional maps across the country, most of which favor Republicans.

In a last ditch effort, top Pennsylvania Republicans are now calling for the U.S. Supreme Court to hear their case. It is worth noting that the Court has already heard arguments in one case related to gerrymandering this term, and are waiting to hear arguments on another. With this in mind, hearing the Pennsylvania case might be redundant, but there

is an important detail to bear in mind: while the Court heard their first gerrymandering case of this term months ago, they have yet to hold a vote to reach a decision. If the Court is hesitant to reach a national gerrymandering decision—as its impact could be widespread and alter the outcomes of numerous future elections—they might hesitate to give a ruling in the next case they hear. If so, the Pennsylvania case could prove to be very important. Especially given the strong ruling issued by the state Supreme Court, the national court would have to either accept this strong partisan gerrymandering ruling or completely strike it down. Striking the state ruling down would be a more daunting task that the federal justices would no doubt hesitate to undertake. As it currently stands, the national decision will likely come down to Justice Kennedy, as the other justices will likely split 4-4 along partisan lines, a rather disturbing fact for our democracy.

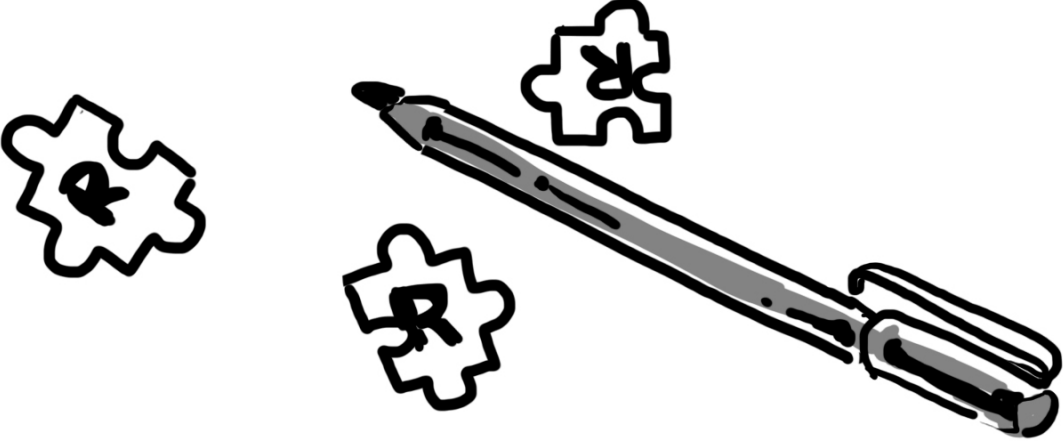
Gerrymandering is an effort almost exclusively undertaken by Republicans for Republicans as they desperately hold on to an electorate that is growing younger and more and more displeased with modern conservative governance.

It is impossible to ignore the context given here by our political climate. With many political analysts saying that a blue wave of Democratic congressional victories is coming, Republicans are undoubtedly terrified. They have passed an extremely unpopular piece of legislation in the recent tax bill, whose short term benefits for working and middle class families will disappear in a decade whilst permanently benefiting corporations and the wealthy. The pace at which they have been trying to ram through this legislation is suggestive of the sense of urgency Republicans feel. They know their agenda is unpopular and dated, and could easily be torn apart by

this November.

So, with a crucial election on the horizon, it is unsurprising that the party of guns and our racist president will seek any electoral advantage it can obtain. They will seek it by any means necessary. A strong national partisan gerrymandering ruling would permanently alter the electoral reality of the United States. The effect it would have would be good for democracy and bad for Republicans. This fits a pattern of modern American politics: Democracy and the GOP often stand at odds. Whether it be shocking attempts to shield President Trump from the Mueller probe, or disgraceful inaction in response

to mass killings by white gunmen, the Republicans know no shame. So, why not soil the U.S. Supreme Court too? The only way Republicans hold onto power is if they keep winning elections, and it will be much easier for them to do that if blatantly partisan congressional maps are allowed to continue to exist and to continue to be gerrymandered in favor of Republicans. America is changing. What it means to be an American is changing. It always has been, and it will continue to do so. Perhaps, then, it is not surprising the party of “Make America Great Again” seeks to perpetuate undemocratic elections to continue defiling democracy.



# Lectures with concrete examples improve students’ learning

*Zachary Goldstein*  
**ZACHARY GOLDSTEIN**

Imagine you are sitting in Spanish class, and the teacher plays “Despacito” over the speakers. The students chatter amongst themselves. They say, “Wow, that’s a great song!” and “I wonder what it all means!”

Following the musical introduction, the teacher launches into a lesson built around the vocabulary, grammar, and cultural references in the hit song. Throughout the class, students are engaged and eager to learn, because they understand why the subject material is important and relevant to the real world. In particular, they are motivated by the desire to better appreciate Luis Fonsi’s hit single featuring Daddy Yankee the next time they listen to it.

Alternatively, imagine you are sitting in a different Spanish class, where the instructor starts by handing out a long list of vocabulary and grammatical concepts. The lesson begins by going through the vocabulary and explaining the grammar, delving into the etymological roots of words and various irregular verb conjugations.

Students are half asleep, unsure why any of this is important or worth paying attention to, longing for the end of the class period. Later in the lesson, the instructor might even play “Despacito,” and while the students are pleasantly surprised to hear the song, the class time was largely wasted because the students were not engaged

enough throughout the lesson to understand the song lyrics at the end.

Most would likely agree that the first Spanish class, with concrete examples presented from the start and abstract ideas explained later, is the better way to go. Yet again and again, explanations start with abstract ideas and only at the end progress to the interesting applications of those ideas.

This mistake is made so many times, because, in the mind of the explainer, starting from abstract ideas is the most intuitive approach. In the head of a fluent Spanish speaker, the most fundamental core concepts are vocabulary and grammar, while on the outskirts of the web of knowledge are example applications of the core concepts like songs and stories. So, unfortunately, this is how topics are often taught.

But, consciously making an effort to change this could greatly improve student engagement and learning. Starting with interesting, real-world applications of a topic signals to students that the broader, more boring, abstract explanations are worth suffering through and staying engaged with because of the great opportunities of applying what you learn. Yes, students might not grasp all the inner workings of the application at first, but that is okay so long as they are motivated to continue learning.

Notice that this opinion piece began by launching straight into a concrete example, and only after appreciating the story

does the reader get the abstract explanation about pedagogy. Maybe readers would never even reach this point in the article if the reverse were true and the article began with a discussion of abstract-first versus concrete-first explanations, saving the

example of listening to “Despacito” in Spanish class for the end.

So next time you are teaching, TA-ing, or even just explaining something to your friend, remember to start with the interesting, concrete example and only after that delve into

the fundamental ideas underlying it.

Inspiration for this opinion piece comes from the education podcast Ben, Ben, and Blue.

*Zachary Goldstein (@zgoldstein)* is a Staffwriter for *The Tartan*.





# Trump’s presidency: year in review



Just over a year ago, Donald Trump officially became the 45th President of the United States. Since then, America has witnessed a president unlike any other. A reality star who “spoke his mind,” who seemed to be unafraid of hitting the “tweet” button, would soon “have a nuclear button” that he proudly admitted “works.” A man without any prior political experience had defied all odds, going against polls and predictions. Regardless of the results from the general election, the free world saw a new chapter in its history thanks to its new leader.

Trump made his objectives of his presidency clear since the campaign, best summarized by his iconic slogan “Make America Great Again:” putting “America first.” To help fulfill the goals of his first term, Trump released his “Contract with the American Voter” in which he set up tasks for his first 100 days in office. He may not have been able to check off every box on his list, but he made significant strides towards establishing “law and order,” protecting American workers, and “draining the swamp” in Washington. As of today, he has signed nearly sixty executive orders, more than any preceding president had this far in his respective presidency.

There have been immediate and positive results from the Trump administration. The stock market continues to go up, and a sample of economists selected by *The Wall Street Journal* almost unanimously reported that job creation and gross domestic product growth may be due to Trump’s small-government approach. However, these results cannot override the tumultuousness of the administration.

Trump may have been praised by some economists for his tax cut plan, but he is still far from being traditionally conservative. Trade, often supported by small-government ideals, is now a topic targeted by conservative criticism. Trump broke the old tradition of conservatism by pulling out of the Trans-Pacific Partnership (TPP) altogether, just as he promised during his campaign. He is continuing this trend by seeking negotiations for the North American Free Trade Agreement (NAFTA), if not a termination of the United States’ involvement altogether. Prime Minister Justin Trudeau has demonstrated confidence in the deal, aiming to exemplify NAFTA’s benefits to the

Canadian economy to “show [to] our neighbor to the south.” Trump’s Agriculture Secretary, Sonny Perdue, shows confidence that Trump will not completely pull out of NAFTA due to the fact that ending a trade agreement with Canada, the U.S.’s largest trade partner, would have significant consequences and wipe out jobs. However, it is uncertain that he will not ultimately decide to end trade deals in an attempt to create more domestic jobs.

The TPP and NAFTA are not the only trade agreements that Trump has been wrestling with. To attack the U.S. trade deficit, Trump turned to Korea and threatened to end the United States-Korea Free Trade Agreement (KORUS FTA) despite the fact that Korea, as of 2017, contributes \$21 billion out of the \$724 billion total trade deficit, which amounts to not even three percent of the total trade deficit, thus taking away jobs created by Korean plants in the U.S. For instance, Hyundai’s contribution in Alabama and Kia’s in Georgia would both be negatively impacted by the withdrawal of the KORUS FTA but may not be able to generate the domestic jobs that Trump has promised to compensate for the damage. However, as President Moon Jae-In and Trump are in talks of renegotiating the KORUS FTA, we may successfully avert a possible economic damage.

Perhaps his most memorable campaign promise was building the wall and “have Mexico pay for it.” However, construction remains stalled to this day. Although he seems to be hard-set on the wall,

be both economically demanding and possibly ineffective, Trump is willing to compromise by offering citizenship for dreamers so that his wall can be built. This has received criticism from some on the left; Senator Kamala Harris noted that Trump was quick to end Deferred Action for Childhood Arrivals (DACA) but also quick to provide citizenship for dreamers in exchange for a border wall. However, prominent voices of the right, such as former congressman Joe Walsh, also showed disappointment in Trump’s plan for compromise. Like a significant portion of other supporters of the wall, Walsh wanted the wall to be built at the expense of Mexico, not at the expense of providing “a pathway for providing citizenship” for undocumented immigrants. This compromise, he argues, is “not what [Trump] said during the campaign.”

Politics has never been a topic in which clean and clear solutions are made; the saying “never discuss politics or religion in polite company” has existed for as long as it has for a reason. However, given Trump’s disapproval rating is below 40 percent — low for a president in office for a relatively short amount of time — it is clear that the trend of a more distinct clash between political ideologies burgeoning is continuing.

The day after election night, one sentiment was widely spread: “give Donald Trump a chance.” Although there’s still a good three-quarter of his first term left, we have now been given a peek at what is to come.

Madeline Kim (@madelink) is the Assistant Forum Editor for The Tartan.



# Allocation of activities fee must be changed

**ACTIVITIES FEE** *from A4*

get sponsors. Thus, we can progress toward achieving two of the university’s goals: a better experience for students and one that is at the same time financially accessible to all.

While the administration executes this plan, students need to rely on one another to identify ways to cut costs. After reviewing hundreds of organizations’ applications, the JFC will surely find, as I have, that some organizations spend far less on the very same events or similar line items that other organizations end up spending more on.

The JFC and mid-year funding sources, then, should identify organizations that spend an unusually low amount per person on certain costs, ask them how they managed to cut costs and spread that knowledge to other organizations so they, too, can take advantage of the cost-saving methods employed by the first organization. This

much funding any organization receives—only the split between how much undergraduate and graduate students pay as part of the activities fee.

Logistically, this can be done by asking each organization how many of its members are undergraduates and how many are graduates and basing the estimates off those numbers. However, it might be difficult to parse out the benefit an organization provides from the composition of its members. For example, even if AB Films mostly has undergraduates, graduate students certainly benefit from the movies it plays.

An alternative method would then be for the Undergraduate Student Senate, Graduate Student Assembly, and SBVPPF to devise a ratio that they think accurately represents the breakdown in spending between undergraduates and graduates. This ratio can then be used to identify what the ratio between the two’s activities fees should

## If we are serious about improving everyone’s experience at Carnegie Mellon at an affordable price, we must reform how we determine the activities fee.

will allow student organizations to do everything they want to, just at a lower cost, again saving money that can be used for other activities.

Lastly, the ratio between the activities fee charged to undergraduates and graduates is also whimsical. The lower fees the graduate students pay is compounded by the fact that 70 percent of their fees go directly to the Graduate Student Assembly while only 10 percent of the undergraduates’ fees go to the Undergraduate Student Senate. The remainder of both go to the JFC.

Such a distribution makes sense if 76.4 percent of the funds that JFC allocates goes to undergraduates and the remainder to graduate students. If the proportion is more, then graduate students are relatively over-paying while if it is less, undergraduates are funding graduates’ activities.

To resolve this potential discrepancy, the SBVPPF could track the ratio of undergraduates to graduates in each organization, then use that to estimate how much money was given to undergraduate students and how much to graduate students. She can then prepare a proposal for the activities fee that splits the costs between the two fairly. Note that this will not affect how

be. The Student Government by-laws imply that this ratio should be based on 70 percent of the activities fee being spent on undergraduates and 30 percent on graduates. But, this figure can be easily amended if the student government finds it necessary, such as to the current rate of 76.4 percent.

The student activities fee and university support for external funding have not kept pace with the rising demand to use those funds from student organizations. If we are serious about improving everyone’s experience at Carnegie Mellon at an affordable price, we must reform how we determine the activities fee, use the JFC reserve for the next few years, encourage and help student leaders gain outside scholarships and grants for their organizations, and implement a system whereby organizations can share with each other how to cut their costs.

These changes will make disbursement of the activities fee fairer and more effective for everyone. Students’ involvement in extracurriculars has always been a source of pride for Carnegie Mellon. It’s time we worked to financially support the unprecedented demand for extracurricular involvement we are now seeing.

YOUR COLLEGE.  
YOUR PAPER.  
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# Science & Technology

## Secret hominin femur still an anthropological mystery

**EMMA FLICKINGER**  
*Assistant SciTech Editor*

A dusty, blackened thigh bone that may represent a “missing link” in human evolution was rejected from a major anthropologist conference this month, prompting frustration among the anthropology community and adding to the confusion surrounding a now-infamous specimen.

Scientists still don’t know exactly when humans diverged from other apes on the evolutionary tree. Most anthropologists agree that the most recent species from which both hominins and other apes descended — the “chimpanzee-human last common ancestor” (CHLCA) — lived between four and ten million years ago.

*Sahelanthropus tchadensis*, an early hominin species that lived around seven million years ago, is

a strong candidate for the CHLCA, because it has a mix of chimp-like and human traits. Like chimpanzees, *Sahelanthropus* had a small brain, a strongly ridged brow, and an elongated skull, according to the Smithsonian. Like

bottom, not the back. *Sahelanthropus* shares this trait with a more recent human relative, *Orrorin tugenensis*, and may be *Orrorin*’s ancestor. In *Orrorin*, the skull opening at the bottom allowed it to stand up straight and

that made bipedalism possible, later on down the line?

Knowing whether *Sahelanthropus* walked upright would help scientists fit the species and its probable descendants into the phylogenetic tree of human evolution. If *Sahelanthropus* is the CHLCA, it’s a direct ancestor of modern humans, which means *Orrorin* may be also. It’s unclear right now how *Orrorin* is related to us, but a few scientists believe that modern humans descended from a species of *Orrorin* — as opposed to a species of *Australopithecus*, which has been the dominant view for a century. If *Sahelanthropus* and *Orrorin* are our ancestors, and not *Australopithecus*, much of modern anthropology will be overturned.



Courtesy of Élisabeth Daynès via Wikimedia Commons  
A reconstructed *Sahelanthropus* face. *Sahelanthropus* may have been the last common ancestor between human beings and chimpanzees.

**It’s impossible for anthropologists to be certain whether *Sahelanthropus* walked upright, because no *Sahelanthropus* leg bones have ever been discovered. Or have they?**

humans, *Sahelanthropus* had small teeth and a short facial structure. Most significantly, *Sahelanthropus*’ skull would have connected to its spinal cord at the

walk on two legs; *Orrorin* was confirmed bipedal in 2002 by scientists who examined *Orrorin* leg bones. Was *Sahelanthropus* also bipedal? Or did it just have the skull structure

see **FEMUR**, A9

## CMU heads \$27.5M initiative for better IoT integration

**NAVIYA SINGLA**  
*SciTech Editor*

Computing on Network Infrastructure for Pervasive Perception, Cognition, and Action (CONIX) is a \$27.5 million initiative by the Semiconductor Research Corporation (SRC) that aims to increase the levels of autonomy and intelligence into the internet of things (IoT) networks.

This initiative is comprised of researchers from six partner universities — University of California, Berkeley, University of Washington, University of Southern California, University of California, San Diego, University of California, Los Angeles — led by and headquartered at Carnegie Mellon University. CONIX is co-directed by Anthony Rowe — an Associate Professor in the Electrical and Computer Engineering Department at Carnegie Mellon University and Prabal Dutta — an Associate Professor at the Electrical Engineering and Computer Sciences Department of University of California, Berkeley. The initiative had its kick-off meeting on Jan. 26, 2018.

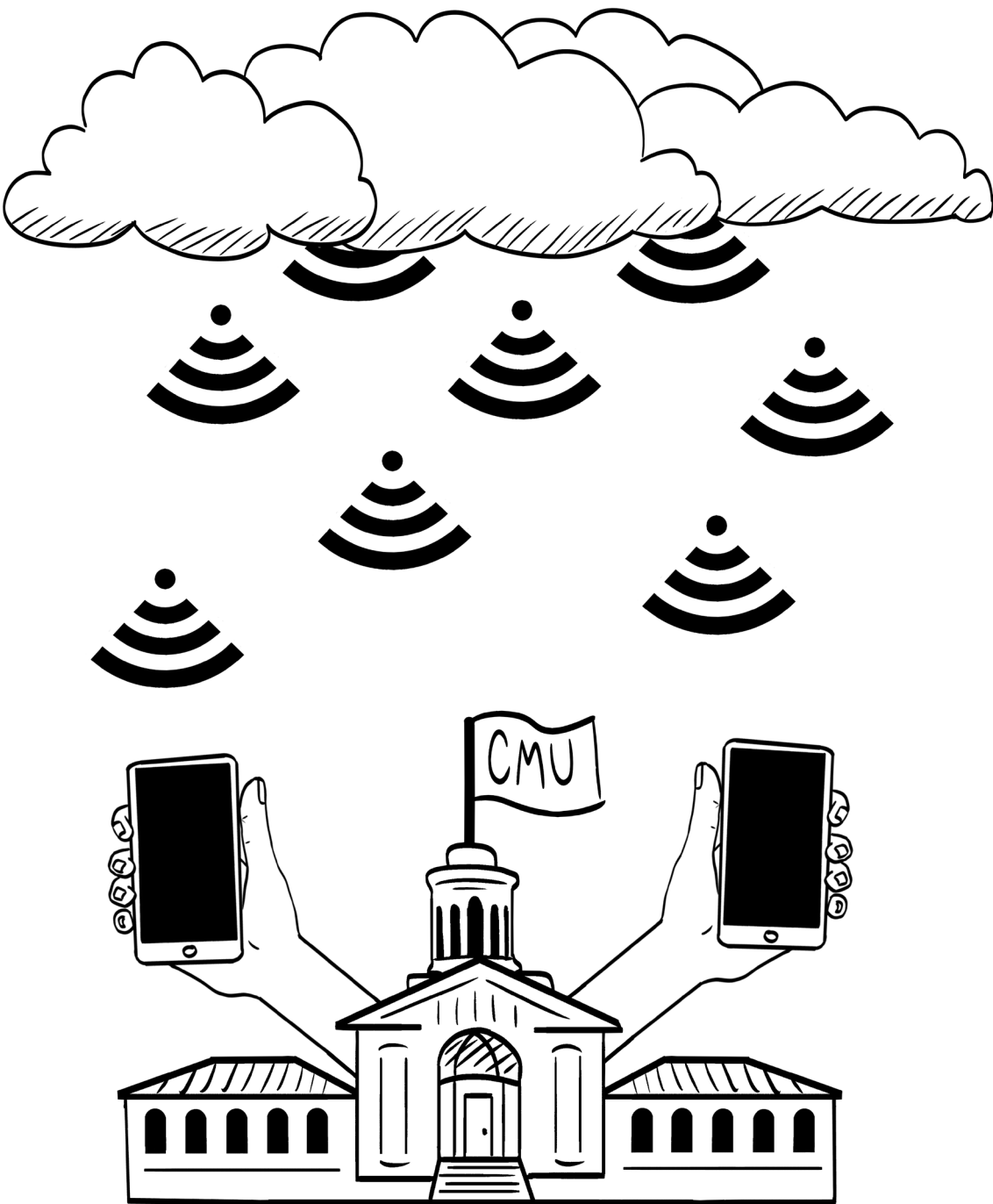
From Wi-Fi controlled string lights for dorm rooms to app controlled car locks to health-monitoring clothes, inter-device communication along with human-device communication has become a virtue of what it means to be a human in the modern age. This space of devices collecting and interacting

with each other forms the space that we call the IoT. As such devices — sensing, collecting data, and interacting with humans — become more pervasive and more integrated into our lives, it becomes increasingly important to be able to build networks that are better equipped to handle these interactions between the cloud and the edge devices. In a Carnegie Mellon press release, Dean James H. Garrett Jr. of the College of Engineering stated, “The extent to which IoT will disrupt our future will depend on how well we build scalable and secure networks that connect us to a very large number of systems that can orchestrate our lives and communities.

CONIX will develop novel architectures for large-scale, distributed computing systems that have immense implications for social interaction, smart buildings and infrastructure, and highly connected communities, commerce and defense.”

CONIX has divided its research agenda into four broad themes — Physically-Coupled Cognitive Systems; Platforms, Programming and Synthesis; Security, Robustness and Privacy; and Interacting Services.

see **CONIX**, A8



Anna Boyle/Art Editor

Write for SciTech



scitech@thetartan.org



# Recreation of horsepox vaccine sparks public outcry

**FATIMA AHMAD**  
*Junior Staffwriter*

Last week, the Public Library of Science (PLOS ONE) journal published a controversial study in which University of Alberta virologist David Evans and his associate Ryan Noyce synthesized a horsepox virus from bits of mail-ordered genetic material. Noyce and Evans obtained the horsepox DNA, synthesized the genes in a modern vaccinia virus (VACV) to create the

kept under high security in Russia and the United States. In 2017, Science magazine reported that motivation for the research, according to its sponsor Seth Lederman, president of the pharmaceutical company Tonix, was to develop a safer, reliable smallpox vaccine with fewer side effects. But critics say that not only do safer vaccines already exist, but also that the paper’s publication in an open-source journal could potentially further the threat of a

convinced by the clinical trials, or the historical success of other smallpox vaccines like the MVA or the LC16m8 from Japan. A weakened form of this vaccinia virus, known as modified vaccinia Ankara (MVA) was developed in the 1970s by the German-Danish company Bavarian Nordic, and was administered to about 150,000 German children at the time. It doesn’t replicate in humans and has been proven to be safe on HIV-positive and stem-

**The paper’s publication in an open-source journal could potentially further the threat of a smallpox outbreak via a bioterrorist attack.**

horsepox virus (HPXV). Then, they showed that the virus was able to infect cells and reproduce. They describe all their processes in thorough detail in their paper, which was published on Jan. 19, 2018. This study was funded by Tonix, a pharmaceutical company based in New York whose president and chief executive officer Seth Lederman is listed as one of the authors on the study. Horsepox is non-lethal to humans, but it is a relative of smallpox, which was declared to be officially eradicated in 1980 by the World Health Organization (WHO). The WHO also bans the synthesis of the full genome of smallpox. The last strains of variola are

smallpox outbreak via a bioterrorist attack. Gregory Koblentz, a bio-defense expert at George Mason University in Arlington, Virginia explains that while getting hands on the smallpox virus is not an immediate threat, over time as more and more people gain access to this technology, it could become a threat. The study by Lederman, Evans, and Noyce has been criticized for claiming that it could further the development of a “safe” smallpox vaccine, without mentioning that such vaccines have already been developed and that the market for a smallpox vaccine using horsepox is seemingly nonexistent. In response, Lederman claims that he is not

cell transplant patients. However, Lederman argues that because MVA was developed and distributed as smallpox was becoming more and more rare, its effectiveness in a real smallpox outbreak remains untested and could be a huge gamble. Before you panic, you should know that according to the Center for Disease Control and Prevention (CDC), there is a large enough supply of the smallpox vaccine for the American public in case of such an attack. Since 9/11, the U.S. government has stockpiled on millions of doses of vaccinia, the mild poxvirus used in the smallpox vaccine. Today, the U.S. government plans to acquire 13 million more doses of



Lisa Qian/Photo Editor

MVA, and already has 28 million, according to Science magazine. This vaccine is less risky than the vaccinia vaccines which were frequently used pre-eradication. As of now, Tonix is developing vaccines using horsepox that have been tested on microbes which would have been infected had they not been vaccinated. The company is currently working on a more controlled version of the vaccine that they could test on humans.

The debate around this issue is related to others about whether the remaining strains of the smallpox virus, secured in government labs in the United States and Russia, should be destroyed. In 2014, the World Health Organization had recommended that these labs get rid of the virus—but as CDC scientist Inger Damon stated in Smithsonian that same year, if another outbreak occurred, keeping the strains would be neces-

sary in order to research safer vaccines and treatments. To that end, Lederman, Evans, and Noyce have proven that the reintroduction of smallpox is no longer a theoretical possibility while simultaneously aiding preparedness for such a situation by bringing the topic back into discussion. However, by publishing their paper, many believe that they have also increased the risk of that happening.

# Six universities collaborate to make IoT more intelligent

*from CONIX, A7*

Then, CONIX aims to focus on three applications of Physically-Coupled Cognitive Perceptual Systems — Smart and Connected Communities, Interactive Mixed Reality Systems and Enhanced Situational Awareness. The Interactive Mixed

Reality Systems application aims to better integrate the physical and virtual components of the IoT, focusing primarily on “short distances, tight latency, and large bandwidths.” The Smart and Connected Communities application looks at “network size, long distances,

and human time-scales” which means that it would require creating systems that are better equipped to obtain and handle large amounts of data from the communities. The Enhanced Situational Awareness application will combine the other two applications to

“support real-time collaboration among humans, algorithms, and machines in a safe, robust, and secure manner in an information-rich, rapidly-evolving tactical environment,” which means that it will create distributed systems that are equipped to process large amounts of data ef-

ficiently and securely. Rowe said, “there isn’t a seamless way to merge cloud functionality with edge devices without a smarter interconnect, so we want to push more intelligence into the network...If networks were smarter, decision-making could occur independent of the cloud at

much lower latencies.” With the possibilities represented by the IoT and the responsibility that comes with handling so much private data and information, this initiative — interdisciplinary, farsighted, and broad — seems to represent a new era of technological change.

## SCITECH BRIEFS

### Scientists discover “defense islands” used by bacteria

CRISPR/Cas9 — widely known for its applications in gene-editing — is also a part of the prokaryotic immune system. This means that it helps certain forms of bacteria protect themselves from viruses called phages that take over the genetic machinery of the cell and force them to replicate viral DNA. However, this mechanism isn’t the only one protecting bacteria from foreign substances. A study published recently in Science magazine explains that bacteria have more defense systems than previously thought. These systems were found in different “defense islands” — genes that tend to cluster together in the genome. According to Science News, the researchers found nine groups of anti-phage defenses and one anti-plasmid defense. This research was conducted by researchers of the Department of Molecular Genetics at Weizmann Institute of Science in Israel.

Source: Science News

### Chinese scientists clone longtailed macaque babies

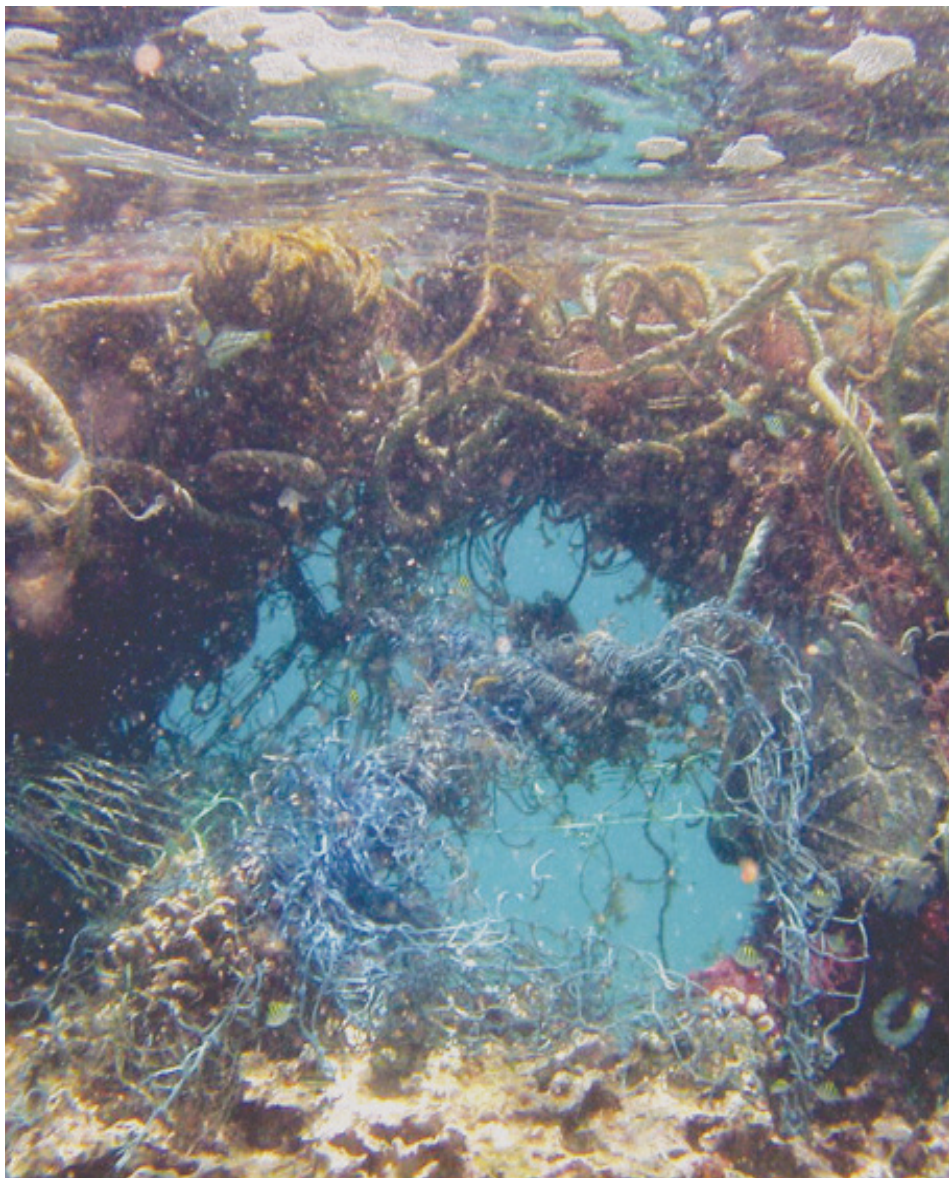
For the first time since Dolly the Sheep was created in 1996, scientists report the successful cloning of long-tailed macaques using the method used to produce Dolly. The two female baby macaques — six and eight weeks old — are named Zhong Zhong and Hua Hua, drawn from the word zhonghua. The animals are reportedly healthy and are currently living in an incubator. One of the authors of this study, Qiang Sun, a researcher at the Institute of Neuroscience in Shanghai, said, “The two monkeys are very active and healthy, they progress very rapidly like human babies... Every other day, they seem more active and their motor system is much more developed and [there are] no signs of abnormality.” With the release of this news, the scientists of the study assure the public that experimenting is not a stepping stone to human cloning and is too risky to not pose ethical concerns.

Source: National Geographic

### Plastic in oceans threatens coral reefs worldwide

Climate change and bleaching have already in-corrigibly affected the coral reef population. Now, researchers at Cornell University have discovered that the presence of plastic makes corals more susceptible to disease and intensifies this affect. Scientists say that these plastics — part of the oceans’ trash such as bottle caps, plastic bags, etc. — act as carriers of pathogenic bacteria that lead to coral reef death due to a disease called white syndrome. The presence of plastic increases the corals disease susceptibility rates from four to 89 percent. Cornell University researcher Drew Harvell explains, “They basically tear open the skin of the coral and that can allow an infection from anywhere to start.” As scientists predict that the plastic going into the coral reefs in oceans will rise to 15.7 billion plastic items, they warn that conservation efforts become necessary.

Source: NPR



Courtesy of NOAA

Over two tons of land debris was collected from Laysan and Lisianski islands as a part of the multi-agency removal effort coordinated by the NOAA Pacific Islands Fisheries Science Center for the Northwestern Hawaiian Islands Marine National Monument. Plastic waste forms a huge part of the debris collected and it irreparably harms the coral reef and marine life in these ecosystems.

Compiled by  
NAVIYA SINGLA



# Mysterious femur may belong to controversial hominin

from **FEMUR**, A7

However, it’s impossible for anthropologists to be certain whether *Sahelanthropus* walked upright, because no *Sahelanthropus* leg bones have ever been discovered.

Or have they?

In 2001, French scientist Michel Brunet’s expedition discovered a *Sahelanthropus* skull and jaw fragments in the African country of Chad. The specimen was named Toumaï and used to establish *Sahelanthropus* as a species. When Brunet’s paper describing *Sahelanthropus* was published, Brunet argued that the positioning of the hole in Toumaï’s skull alone established that *Sahelanthropus* was bipedal. Brunet has maintained this position ever since.

The leader of the field team that uncovered the bones, retired geographer Alain Beauvilain, disagrees. He claims that a femur was found with Toumaï, and that its characteristics suggest a species that was *not* bipedal.

This femur is surrounded by mystery and contradictions. First, in 2004, a volley of papers was published on a controversy involving some of Toumaï’s teeth that called into question the methods of Brunet’s original research team.

In 2008, Beauvilain argued in a paper that through ancient human interference, the bones had been moved from their original spot, calling into question Brunet’s estimation of their age and place of origin.

But most importantly, the field photographs of the bones published in Brunet’s original paper are not

photographs of the bones as they were found — the photographs are recreations, staged with casts of the bones. It’s ot necessarily a sign of dishonesty, but it’s certainly an unconventional choice.

But the most important mystery is this: despite *Sahelanthropus*’s significance as a potential biped, none of the scientists who discovered or described *Sahelanthropus* has ever acknowledged the femur’s existence in print.

France’s National Center for Scientific Research even explicitly stated that no leg bones were found at the site. Most anthropologists, until recently, had no idea it existed. Even some of Toumaï’s discoverers have barely seen the femur. Harvard palaeoanthropologist David Pilbeam, who was a co-author on Brunet’s original Toumaï paper, never got a chance to analyze the femur and only saw it briefly. “All I can recall is that it lacked ends and was very black,” he says.

Is this a scientific cover-up? The withholding of anthropological evidence?

Brunet has declined to comment. “Our studies are still in progress,” he wrote in a brief e-mail to *Nature*. “Nothing to say before publishing.”

According to *Nature*, “the discovery of [Toumaï] made Brunet famous in France, and especially in Poitiers, where a street is named after him.”

After Brunet’s original expedition, the femur was quietly shipped to France with the rest of the bones and ended up in the collection of the University of Poitiers. Aude Bergeret, now director of the Museum



Courtesy of Didier Descouens via Wikimedia Commons

Replica of the skull of the hominin specimen known as Toumaï. Toumaï was discovered in Chad in 2001 by French anthropologists.

of Natural History Victor-Brun in Montauban, France, came across the femur in storage in 2004, when she was a graduate student at the university. “I discovered the femur by chance,” she says. “I remember joking with another student, who told me, ‘You found Toumaï’s femur!’,” Bergeret says. “I realized when I saw Roberto Macchiarelli that this joke was probably based on reality.”

Aude Bergeret asked

Machiarelli, then head of the department of geosciences at the University of Poitiers, to help her study the bone for a few days. They compared it to other known hominin bones and reached a preliminary impression: the owner of this femur was not bipedal.

This year, Bergeret and Machiarelli submitted a report to the Anthropological Society of Paris that discussed their brief impressions of the femur, and ar-

gued that a formal in-depth, peer-reviewed analysis was needed.

It would have been the first scientific publication to describe the femur, finally giving evidence-starved anthropologists real information — but their report was rejected without explanation.

Anthropologists are used to scientific understanding being impeded by incomplete evidence or unknown factors. But it’s less usual

for the bureaucracy and politics of scientific publication to prevent extant, unanimously coveted evidence from coming to light — at least with something as significant as the origins of humanity.

“We don’t know why it’s been kept secret,” says paleoanthropologist Bill Jungers, at Stony Brook University in New York. “Maybe it’s not even a hominin. Who the hell knows until someone can expose it.”

## CONGRATULATIONS!

The School of Computer Science wishes to publicly acknowledge the outstanding academic achievement of the following students who have been named to the Dean’s List for the Fall 2017 semester.

Ai, Zejie — Junior	Fondriest, Jacob — Freshman	Lee, Mark — Junior	Penick, Jack — Junior	Wang, Phillip — Sophomore
Algayres, Robin — Junior	Friedman, Alexander — Junior	Li, Alice — Freshman	Pingali, Sriharini — Senior	Wang, Sihan — Senior
Anjur, Kalpa — Freshman	Gakhar, Sunny — Senior	Li, Barry — Senior	Pomini, Aurelien — Junior	Wang, Ziyang — Junior
Awner, Harleigh — Sophomore	Gao, Yuan — Freshman	Li, Dongyu — Sophomore	Potluri, Medha — Sophomore	Wen, Daniel — Junior
Bajpai, Tanvi — Junior	Garza Rodriguez, Diego — Junior	Li, Jonathan — Junior	Price, Stephen — Freshman	Wildenhain, Thomas — Sophomore
Bakshi, Shreyan — Sophomore	Geng, Kevin — Freshman	Li, Mengze — Junior	Qin, Geyang — Freshman	Woodrow, Henry — Sophomore
Bali, Shreya — Freshman	Gerard, Kyle — Junior	Li, Tianyu — Senior	Qu, Siyang — Freshman	Wu, Huachen — Freshman
Bandi, Arushi — Freshman	Goebel, Edward — Sophomore	Li, Xiaohan — Senior	Rabinovitch, Avital — Freshman	Wu, Peter — Freshman
Bawankule, Parmita — Freshman	Grange, Matthew — Freshman	Li, Yifei — Sophomore	Rajesh, Abinaya — Sophomore	Wu, Xinyu — Junior
Bawaja, Anubhav — Freshman	Gratzer, Daniel — Senior	Li, Yucen — Junior	Rajgarhia, Ananya — Senior	Xiao, Alex — Senior
Becker, Timothy — Senior	Grenier, Winston — Freshman	Liang, Jarrett — Sophomore	Ramamurthy, Vijay — Junior	Xiao, Brian — Senior
Ben Hassen, Sami — Junior	Griffith, Amber — Freshman	Liang, Michael — Senior	Ramsey, Samantha — Freshman	Xiao, William — Senior
Bhagirath, Aditri — Sophomore	Guo, Yiyang — Sophomore	Lim, Yao Chong — Senior	Rathi, Pranjali — Junior	Xie, Yuanchu — Freshman
Bhagwat, Apoorva — Senior	Hall, Thomas — Freshman	Lin, Miranda — Freshman	Riedel-Mishaan, Abraham — Freshman	Xu, Sheng — Junior
Bhargava, Abhishek — Sophomore	Han, Young Jean — Junior	Lin, Patrick — Junior	Rizvi, Rameel — Junior	Xu, Yiqin — Junior
Bhatia, Vidhart — Sophomore	Hanagal, Sheela — Sophomore	Liu, Kaige — Sophomore	Roberts, Nicholas — Junior	Xu, Yizhou — Sophomore
Board, Elizabeth — Junior	Hashe, David — Sophomore	Liu, Lingyu — Sophomore	Runkar, Samantha — Sophomore	Xu, Yue — Junior
Bollu, Anand — Sophomore	Hatzis-Schoch, George — Junior	Liu, William — Freshman	Sager, Andrew — Sophomore	Xu, Ziyu — Junior
Brik, Gabriela — Sophomore	He, Rong — Sophomore	Liu, Xinran — Junior	Sargent, Erik — Sophomore	Yadav, Rohan — Junior
Brower, Cecelia — Freshman	Horry, Samantha — Sophomore	Lu, Allen — Senior	Savage, Matthew — Junior	Yan, Chloe — Freshman
Brown, Jordan — Senior	Hou, Julia — Sophomore	Lu, George — Junior	Scharager, Matias — Freshman	Yan, Hanru — Freshman
Cai, Wen Yue — Junior	Hou, Ya Xin — Sophomore	Lu, Zhichu — Junior	Schmutz, Frank — Junior	Yang, Alice — Freshman
Calkosz, Dominic — Freshman	Huang, Jocelyn — Senior	Luning Prak, Jeanne — Junior	Scoggins, Clarissa — Sophomore	Yang, Andrew T — Freshman
Chai, Alexander — Senior	Huang, Michael — Freshman	Luo, Adriel — Senior	Sekar, Ashwin — Senior	Yang, Andy — Freshman
Chakrabarti, Darshan — Sophomore	Hwang, Seungmin — Junior	Luo, Tian — Freshman	Sellke, Clara — Freshman	Yang, Muyu — Junior
Chao, David — Freshman	Hwang, Yeongwoo — Senior	Lyu, Yiwei — Freshman	Shankar, Uday — Freshman	Yang, Qianhe — Freshman
Chargin, William — Senior	Imola, Jacob — Senior	Ma, Jason — Junior	Shankar, Vivek — Senior	Yang, William — Sophomore
Chaudhry, Sayan — Freshman	Iyer, Maia — Freshman	Ma, Xiaoya — Freshman	Shao, Yizhou — Senior	Yao, Zhiying — Junior
Chen, Blair — Freshman	Jaffe, Alan — Senior	Mahajan, Arnav — Freshman	Sharma, Varun — Senior	Yeditha, Meheresh — Junior
Chen, David — Freshman	Jain, Mayank — Freshman	Maharshi, Kusha — Freshman	Shi, Wenze — Sophomore	Yeh, Alexander — Junior
Chen, Eric — Freshman	Jain, Rhea — Freshman	Mallela, Prahaladha — Junior	Shiau, Marie — Freshman	Yiblet, Shalom — Junior
Chen, Jeffrey — Freshman	Jain, Rishub — Senior	Mankins, Lydia — Senior	Shin, Michael — Senior	Yin, Qiya — Sophomore
Chen, Joyce — Junior	Jaisingh, Rahul — Junior	McIntosh, Stephen — Freshman	Sidique, Sohail — Senior	Yin, Yue — Junior
Cheng, Ricson — Senior	Jesurum, Rebecca — Junior	Meng, Xiangquan — Junior	Smith, Benjamin — Sophomore	Yong, Mengchen — Freshman
Cherivirala, Sushain — Senior	Ji, Menglan — Senior	Meringenti, Tanvi — Freshman	Snow, Zachary — Junior	You, Stephanie — Sophomore
Chiu, Ian — Sophomore	Jia, Justin — Freshman	Mohanty, Sidhanth — Senior	Soliman, Yousuf — Senior	Yuan, Chenhui — Junior
Chou, Jennifer — Senior	Jiang, Brandon — Freshman	Mongkolsupawan, Natjanan — Freshman	Song, Maoyuan — Junior	Zeng, David — Junior
Clinch, Eric — Sophomore	Jiang, Sandra — Senior	Mowry, Connor — Freshman	Soudry, Benjamin — Sophomore	Zhang, Fan — Senior
Clune, Joshua — Freshman	Jin, Emma — Freshman	Musipatla, Amulya — Sophomore	Srinivas, Vaidehi — Sophomore	Zhang, Xiaoyu — Freshman
Codel, Cayden — Freshman	Johnson-Staub, Benjamin — Sophomore	Nan, Junyu — Senior	Sun, Alan — Sophomore	Zhang, Ye — Sophomore
Cohn, Ari — Freshman	Joshi, Maitreyee — Senior	Narayan, Keshav — Freshman	Sun, Weijia — Sophomore	Zhanson, Joshua — Sophomore
Cruff, Macallan — Sophomore	Kalapos, Joshua — Sophomore	Nayak, Tanuj — Sophomore	Suri, Ananya — Sophomore	Zhao, Yixiu — Junior
Damashek, Samuel — Freshman	Kang, Raymond — Senior	Ney, Brendan — Sophomore	Sussman, Zachary — Sophomore	Zheng, Emily — Freshman
Davis, Ariel — Sophomore	Kang, Yijin — Junior	Ng, Serano — Freshman	Tai, Priscilla — Senior	Zhou, Zhen — Junior
de Boor, Corwin — Junior	Kerr, Justin — Freshman	Ngom, Amadou — Junior	Tammineedi, Himakeerth — Senior	Zhu, Eric — Senior
Dewan, Komal — Freshman	Kim, Samuel — Sophomore	Nie, Eric — Sophomore	Tao, Sean — Junior	Zhuang, Jennifer — Sophomore
Dhull, Komal — Freshman	Kim, Sean — Senior	Ohta, Rie — Sophomore	Thayillam, Brenda — Senior	
Dong, Richard — Sophomore	Kohlbreunner, Anne — Junior	Ojha, Shashank — Sophomore	Tong, Kar Leung Edmund — Senior	
Dong, Zhan — Junior	Kong, Junhan — Junior	Olkin, Jake — Sophomore	Tseng, Thomas — Senior	
Du, Xiong-Fei — Junior	Kopparthy, Rohit — Freshman	Olshan, Justine — Sophomore	Tsui, Emily — Senior	
Ye, Constance — Freshman	Krulcik, Scott — Senior	Olvera, Melody — Sophomore	Uppal, Riya — Sophomore	
Durham, Joshua — Freshman	Kulshrestha, Arisha — Junior	Oreshko, Maryia — Freshman	Uppal, Uday — Junior	
Earathu, Alka — Sophomore	Kumar, Ajay — Sophomore	Orlowski, Jan — Sophomore	Wade, Zachary — Junior	
Estrada, Andrea — Freshman	Kumar, Pranav — Freshman	Osofsky, Everi — Senior	Wang, Dennis — Junior	
Evans, Allana — Sophomore	Kuo, Nathan — Freshman	Pai, Naveen — Freshman	Wang, Di — Junior	
Fan, Weihang — Sophomore	Lahiry, Gaurav — Senior	Paivene, William — Sophomore	Wang, Kai Wen — Sophomore	
Fashimpaur, Jacqueline — Sophomore	Lavicka, Caleb — Sophomore	Pandurangan, Pavithra — Sophomore	Wang, Lawrence — Freshman	
Fei, Haoran — Freshman	Lee, Jessica — Freshman			
Finn, Rebecca — Freshman				





Courtesy of Jed Jacobsohn via Flickr Wikimedia Commons

New England Patriots linebacker sacks Philadelphia Eagles quarterback Donovan McNabb in the first quarter of Super Bowl XXXIX on Feb. 6, 2005. The teams will play the rematch in Sunday’s Super Bowl LII.

## Upcoming Events

**Men’s Basketball**  
vs. NYU  
at home  
Feb. 2, 8 p.m.

**Men’s Track & Field**  
vs. Denison  
at Denison  
Feb. 3, 2 p.m.

**Men’s Tennis**  
vs. Duquesne  
at Alpha Tennis  
Feb. 3, 4 p.m.

**Women’s Basketball**  
vs. NYU  
at home  
Feb. 2, 6 p.m.

**Women’s Track & Field**  
vs. Denison  
at Denison  
Feb. 3, 2 p.m.

**Women’s Tennis**  
vs. Slippery Rock  
at Alpha Tennis  
Feb. 3, 10 a.m.  
  
vs. Duquesne  
at Alpha Tennis  
Feb. 3, 4 p.m.

## UAA Basketball Standings

**Women’s**

Univ.	W	L
Chicago	7	0
Rochester	6	1
Wash U.	4	3
Emory	4	3
Brandeis	3	4
NYU	3	4
CMU	1	6
CWRU	0	7

**Men’s**

Univ.	W	L
Wash U.	7	0
Emory	6	1
Rochester	4	3
CWRU	4	3
Chicago	4	3
NYU	2	5
Brandeis	1	6
CMU	0	7

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## Fantasy football

**FANTASY**, from A12

A measly 43.1 points from the entire lineup was no match for the 103 points from Justin Tucker Must (not) Die. All but two of Beresford’s starters scored over 10 points. Congrats to Beresford for obliterating my team and taking the bronze as a fantasy football rookie!

**Team Andah over Drop it like it’s Crock 220.3–196.5**

There were no surprises in the race for fifth place (or what ESPN’s website aptly calls the “consolation” matchup). The only consolation I can give former Publisher Jade Crockem is that st

affwriter Josh Andah has continuously beat teams throughout the season while never changing his lineup (I don’t think he’s ever even signed into his account since he created it). Earlier in the season some of us in the league wondered if Andah’s strategy (or lack thereof) might get him into the playoffs, but thankfully, that didn’t happen.

While the Week 16 box score for Drop it like it’s Crock lacks any glaring zeros, underwhelming performances from many of Crockem’s starters set the team back. Arizona Cardinals wide receiver Larry Fitzgerald’s 27.7 points (from nine catches, 119 yards, and a touchdown) was the team’s

only bright spot. For Team Andah, on the other hand, there were several bright spots to go with a zero due to Steelers star wide receiver Antonio Brown’s injury. Los Angeles Chargers running back Melvin Gordon gained 81 yards from 19 carries and a touchdown for 21.8 points and Philadelphia Eagles tight end Zach Ertz hauled in nine catches for 81 yards for 17.1 points.

Building on a 116.1–104.5 lead, Team Andah again saw great weeks despite Brown’s absence. Seattle Seahawks wide receiver Doug Baldwin’s 25 points were his most since his season-high 26.5 points in Week 3, and the Chiefs defense also posted its second-best week of the season with 17 points. For Drop it like it’s Crock, Fitzgerald’s 13.5 points couldn’t carry the team. In the end, it seems like Crockem’s team name was well-chosen, as she dropped from third place last year to dead-last in the league this year.

And that’s it for the Tartan fantasy football league for the 2017–18 season. Just like the unpredictable NFL season, our fantasy season has had some surprising results. Next year the field will be quite different. All of our players this season, except for Andah and me, are seniors. I don’t expect Andah to participate again, so check back in the fall for a new crop of Tartan staff members that I’ve coerced into joining the league.



SPORTS BRIEFS

Women’s Basketball

The Carnegie Mellon University women’s basketball team visited New York University (NYU) on Friday, Jan. 26 for a University Athletic Association (UAA) contest, falling to the Violets, 78–58, at the Hunter College Sportsplex. The Tartans are now 9–8 and 1–5 in the UAA, while the Violets improve to 9–8 and 2–4.

Sophomore Makayla Filiere led the Tartans with 19 points and three steals, as fellow sophomore Laurel Pereira dropped 13 points and picked up three steals. Sophomore Laura Ochsner led the team with nine rebounds and blocked two shots.

Filiere scored the first bucket of the game on a fast break layup and later gave the Tartans their last lead of the game, 11–10, on a three-pointer with 4:08 to go in the first quarter. The Violets then took over with a 13–4 run to end the quarter and led 23–15 after the first 10 minutes.

The Violets extended their lead to 20 by halftime and led by as many as 36 points before sophomore Megan Jaeb hit a three-pointer at the third-quarter buzzer.

Filiere scored eight of the team’s 26 fourth-quarter points, as the Tartans shot 7-of-10 from the field, 3-of-4 from the three-point arc, and 9-of-10 from the free throw line to cut the final deficit to 20 points.

On Sunday, Jan. 28 at Brandies University, the Carnegie Mellon University women’s basketball team lost a heartbreaker when the Judges held on for a 55–52 win. The Tartans are now 9–9 and 1–6 in the UAA while the Judges move to 11–6 and 3–4.

Filiere led the Tartans with 24 points and four assists while Pereira scored 16 points off the bench.

Pereira made a layup and free throw to tie the score at 8-8 after nearly six minutes of action in the first quarter, but Brandeis answered with a three-pointer and held on to a 15–14 first-quarter lead.

The lead changed hands three times in the second quarter with the last lead favoring the Tartans after a layup by Ochsner and a triple by Filiere made the score 24–23, with 4:19 to go. Filiere hit her third three-pointer of the game just more than two minutes later and the Tartans held a 29–25 halftime lead after shooting 42.9 percent from the floor and holding Brandeis to 25.8 percent shooting for the half.

Brandeis improved its shooting by 11 percent in the third quarter and took a two-point lead into the final period where they wouldn’t relinquish the lead. The Tartans pulled within two late but a free throw by the Judges with four seconds

left forced the Tartans into a desperation three-pointer for the tie that fell short.

The Tartans finished the game shooting 38 percent from the floor as both teams turned the ball over 23 times. Twenty-one offensive rebounds for the Judges led to 12 second chance points which made up for their 27.4 percent shooting effort for the game.

The Tartans will return home to face New York University on Friday, Feb. 2, before hosting the Judges on Sunday at 2:00 p.m.

Men’s Basketball

The Carnegie Mellon University men’s basketball team visited NYU on Friday, Jan. 26 for a UAA contest, falling 83-65 to the Violets at the Hunter College Sportsplex. The Tartans are now 4–13 overall and 0–6 in the UAA, while the Violets move to 9–7 and 2–4.

The Tartans were led by sophomore Zach Howarth’s 19 points and seven rebounds. Sophomore Trent Suddeth scored 13 points with sophomore Colin McNeil putting in 11 points and dishing out four assists.

NYU pushed its first-half lead to 11 points, bringing the score to 23–12. The Tartans would climb back to trail by two at 2:27 to go in the first half on a driving layup by senior Thomas Cook. First-year Zach Watson also cut the deficit at two with a reverse layup with 22 seconds to go but a shot close to the buzzer by NYU made the score 41–37 at the break.

Suddeth scored the first two baskets of the second half to fuel a 10–3 run that put the Tartans up 47–44 after McNeil put in a layup and Howarth sank four straight free throws.

The Violets would quickly take back the lead during an 11:29 stretch of play that included seven three-pointers and put the Violets up 19.

The Violets would finish with eight three-pointers for the second half and shot 54.8 percent from the field for the game, while the Tartans converted 41.9 percent from the field and hit just 4-of-20 from behind the arc.

On Sunday, Jan. 28, career-scoring afternoons for three Tartans weren’t enough as the Carnegie Mellon University men’s basketball team fell, 87–79, to Brandeis University. The Tartans are now 4–14 overall and 0–7 in the UAA while the Judges move to 4–13 and 1–6.

Sophomore Zach Howarth led the Tartans with a career-high 26 points while Watson finished with a career-best 19 points. Suddeth recorded his first career double-double with 10 points and 10 rebounds while sophomore Cooper Williams also recorded a career-high with 14 points.

Brandeis opened with a 14–2 run through the first three minutes and 52 seconds of the game. Over the next seven minutes, the Tartans used a 16-3 run to take their first lead of the game when Howarth hit a three-pointer from the corner, making the score 18–17.

After the Tartans took their first lead with nine minutes to go, the advantage changed hands four times before Williams hit a trey fueling a 10–4 run to end the period with the Tartans up 36–30.

The dribble-drive for a score and the drive-and-kick for a three-pointer worked for the Tartans in the later portion of the first half as Watson finished the half with 10 points on four driving layups and Howarth scored 15 on 3-of-3 shooting from the arc and three driving buckets.

The Tartans shot 55.6 percent from long range and 45.2 percent from the floor in the first half while the Judges converted 41.4 percent from the floor and hit just 2-of-9 three-point attempts.

Carnegie Mellon extended its lead to 10 before Brandeis rattled off a 14–4 run to tie the game at 44-all with 13:53 to go. First-year Daniel Weiss drained a three-pointer on the next possession and the Tartans kept the lead until Brandeis had an 8–0 run to lead 54–49 with 11:12 to play.

A string of free throws and a jumper by Howarth briefly gave back the lead to the Tartans, 57–56, but the Judges hit nine of their final 18 shots and led by as many as 10 points before withstanding a Tartan rally to earn the 87–79 victory.

Carnegie Mellon will return home to face New York University on Friday, Feb. 2, at 8:00 p.m.

Women’s Swimming & Diving

The Carnegie Mellon University women’s swimming and diving team traveled down Forbes Avenue to the University of Pittsburgh for the Western Pennsylvania Invite on Saturday afternoon. The meet was in preparation for the UAA Championships to be held Feb. 14–16 in Atlanta, Georgia.

First-year Stefanie McMillan swam to a second-place showing in the 1,000-yard freestyle in a time of 10:31.72. Later in the meet, McMillan turned in a fourth-place finish in the 500-yard freestyle touching in 5:09.21.

Senior Kim Hochstedler touched the wall in 1:05.42 in the 100-yard breaststroke to place third while first-year Eiza Bell finished fifth in the event with a time of 1:06.69. Hochstedler also placed fourth in the 200-yard breaststroke with a time of 2:24.11.



Courtesy of CMU Athletics

The Carnegie Mellon men’s track & field team won the 2018 Obelisk Trophy for the second straight year.

Sophomore Jocelyn Chan earned a fourth-place finish in the 100-yard butterfly. Chan touched in 58.74. Senior Mary St. John and sophomore Mary Day each record fifth-place showing on Saturday. St. John had a time of 2:10.96 in the 200-yard butterfly while Day touched the wall in 59.92 in the 100-yard backstroke.

The UAA Championships begin Wednesday, Feb. 14, on the campus of Emory University.

Men’s Swimming & Diving

The Carnegie Mellon University men’s swimming and diving team traveled down Forbes Avenue to the University of Pittsburgh for the Western Pennsylvania Invite on Saturday afternoon. The meet was in preparation for the UAA Championships to be held February 14–16 in Atlanta, Georgia.

On Friday night, junior Gabe Bamforth finished third on the one-meter board with a score of 278.20. He then took fourth in the three-meter scoring 248.35.

On Saturday, first-year Thomas DeLauro and junior Jack Lance placed third and fourth in the 1,000-yard freestyle. DeLauro touched the wall in 9:56.13 while Lance touched in 9:59.09. First-year Max Gonzalez also turned in a third-place finish in the 500-yard freestyle with a time of 4:41.37.

First-year Ishaan Jaffer touched third in the 200-yard freestyle in 1:44.14.

First-year Justin Britton turned in a third and fourth finish on Saturday. He placed third with a time of 52.12 in the 100-yard backstroke and touched fourth in the 100-yard freestyle in 47.89.

The Tartans had two other fourth-place finishes with junior Winston Chu touching the wall in 57.53 in the 100-yard breaststroke and sophomore Ryan Fitzpatrick touching in 22.09 in the 50-yard freestyle.

The UAA Championships begin Wednesday, Feb. 14, on the campus of Emory University.

Women’s Track & Field

The Carnegie Mellon University women’s indoor track and field team lost a close battle to Case Western Reserve in the 10th annual

Battle of the Obelisk on Saturday. The Tartans were outscored by the Spartans 71–65 despite taking first place in eight events with four coming from junior Debarati Bhanja. The women’s score helped win the trophy with a combined score of 139–133 with the men’s team.

Bhanja started the day with a top finish in the long jump with a distance of 4.98 meters. The junior then crossed first in the 60-meter dash with a career-best time of 8.17 before winning the 200-meter dash in 26.72. She then teamed with senior Sarah Cook, sophomore Joanna Baranowski, and first-year Valerie Reiling to win the 4x400-meter relay with a time of 4:06.81.

Two Tartans finished behind Bhanja in the 60-meter dash and 200-meters dash, as junior Claire Yuan crossed the line in 8.24 in the 60-meter to place second and Cook finished second in the 200-meter with a time of 27.08. Cook also turned in a top finish when she turned in a time of 59.63 in the 400-meter dash.

Carnegie Mellon swept the top three spots in the mile run with sophomore Kate Reilly winning the event in 5:23.77. Junior Wade Lacey and sophomore Valerie Collins finished second and third, respectively, with times of 5:35.77 and 5:35.94.

Reilly was joined by junior Rose Ciriello and sophomores Rachel Reolfi and Vayda Farino in the distance medley to win the race with a time of 12:54.53.

Sophomore Michelle Karabin won the pole vault after clearing the bar at 3.53 meters.

The Tartans will next compete at the Denison Bob Shannon Invite on Feb. 3 in Granville, OH.

Men’s Track & Field

The Carnegie Mellon University men’s indoor track and field team traveled to Cleveland, Ohio on Saturday to compete against Case Western Reserve in the 10th annual Battle of the Obelisk. The men swept two events, while claiming nine top spots, to beat the Spartans 74–62. The women scored 65 points to give Carnegie Mellon the 2018 title of the Obelisk Trophy

by a combined score of 139–133, marking the second straight season the Tartans won.

The Tartans swept the top three spots in the shot put with first-year Bram Miller winning the event with a mark of 14.41 meters. Senior Jacob Schofel placed second with a toss of 13.57 meters while junior Julian Nelson recorded a mark of 13.38 meters to take third.

The second sweep for the Tartans also came in the field events with Cardinal and Gray taking the top three spots in the pole vault. First-year Alex Liu cleared the bar at 4.18 meters followed by senior Tommy Mansfield and first-year Jack Murphy at 4.03 meters. Mansfield took second on a judges decision.

Schofel won the weight throw with a distance of 15.78 meters. The Tartans claimed two other top spots in field events with junior Reed Farber clearing the bar in the high jump at 1.90 meters. His win sealed the Obelisk Trophy for the Cardinal and Gray as the high jump was the last event of the day. The other win was claimed by senior Eloy Fernandez in the triple jump. The senior leapt an indoor career-best of 13.80 meters while sophomore Fred Dauphin marked at 13.11 meters to place second.

On the track, junior Kevin Cory edged out the second-place finisher by 0.38 seconds to win the 5,000-meter run. Cory crossed the line with a career-best time of 15:17.07. In the mile run, junior Andrew Harter and sophomore Liam Walsh finished first and second. Harter crossed in 4:25.28 and Walsh in 4:25.61.

First-year Marvin Bennett continued his stellar collegiate career on the track with another top finish in the 60-meter dash, as he crossed in 7.16. He also placed second in the 200-meter dash with a time of 23.43.

The distance medley relay team of junior Mark Moody, sophomores Evan Yukevich and Josh Kalapos along with first-year Grant Johnson won in 10:53.01.

The Tartans will next compete at the Denison Bob Shannon Invite on Feb. 3 in Granville, OH.

Compiled by  
MARIKA YANG





Sports

Super Bowl Preview: Can the Eagles pull the upset?

Coming to terms with the Pirates post-McCutchen



MEL KERBER  
Online Editor

Super Bowl LII pits the old against the new — the veritable dynasty that is Tom Brady and the New England Patriots versus Nick Foles and the Philadelphia Eagles. It has been thirteen years since the Eagles were last in the Super Bowl, after losing to none other than the Patriots in 2005. Offensively, the teams were neck and neck throughout the regular season, each averaging exactly 28.6 points a game. Both teams went 13-3 for the season, and both finished at the top of their respective conferences. Since the season began, these two teams have been on a collision course for the Super Bowl.

It is unfair to call the Eagles the underdogs. Although the odds are heavily in the Patriots’ favor, the Eagles have shown surprising resilience after the loss of starting quarterback Carson Wentz before the postseason began. Foles has thrown for 598 yards in

two playoff games, and the Eagles boasted the third-best rushing offense during the season, proving themselves to be a double threat. In order to get the edge on the offensive juggernaut that is New England, Philadelphia must emphasize high scoring drives.

Foles has established himself as a competent back-up quarterback in the postseason thus far, including a dominant performance against the Minnesota Vikings in the NFC Championship, but there is little evidence from past regular season performances to back this up. He must be willing to shoulder the responsibility of leading the Eagles with renewed vigor, and must outperform one of the best quarterbacks in recent memory.

The Patriots, far and away a more passing-focused team, lead the league with the most productive offense, averaging 394.2 yards per game. The Eagles’ defense, ranked fourth in the NFL, will need to focus on

shutting down Tom Brady and the Patriot’s offense early and often, especially tight end Rob Gronkowski, who averaged 15.7 yards per reception and led the Patriots with 69 receptions, and is coming off a head injury sustained in the AFC Championship.

The Patriots have become notorious for their late-game comebacks, and this perseverance will give them their best shot in defeating the Eagles. Championship experience is likely to come into play, as very few of the Eagles’ starters have played in a Super Bowl, and none as a member of the Eagles. The Patriots, however, have won five titles under head coach Bill Belichick, each secured by the performance of Brady. With two teams that have performed similarly throughout the year, this might be the edge the Patriots need to win a back-to-back championship, and what would be their third championship in four years.

The teams will go head-to-head at 6:30 p.m. EST on Sunday, Feb. 4.

BRAD PUSKAR  
Junior Staffwriter

When I saw that the Pittsburgh Pirates had traded Andrew McCutchen, face of the franchise and former National League MVP, to the San Francisco Giants for a young, untested relief pitcher and a minor league outfielder, I wasn’t as shocked as I think many Pirates fans were. The general consensus was, especially after the Gerrit Cole trade to the Houston Astros, that McCutchen would be gone for sure this offseason. Fans would have needed a miracle to get the club to extend McCutchen’s contract.

I was still hurt, mostly because of the terrible return the Pirates got for him. We really couldn’t have snagged anyone that brings a bit more of a veteran presence to the team? But the damage was done, so the only thing left to do is look forward to this season, if you even want to support the Bucs anymore.

So, Pirates fans, what is there left to love about this team? What could be the ray of sunshine in an otherwise gloomy offseason? Their names are Josh

Bell and Jameson Taillon, of course. Even during the 2017 season, reporters were looking at Bell, a well-spoken, power-hitting first baseman, and seeing his potential to lead the Pirates as their new franchise player. After a record-breaking rookie year, the only thing I can possibly hope for from Bell is more consistency as he tries to fill the shoes left by McCutchen.

In Taillon’s case, it’s a little less obvious. After the Bucs flipped Cole for a couple of seemingly lackluster players (more on that later), the rationale in my mind was that the Pirates already have Taillon in their pocket as a young, developing ace. He’s a stud on the mound, and although he had a bit of a rough patch after returning from his cancer surgery, everything seems to be set up for Jamo to take his place as the Pirates’ new ace pitcher.

Another thing to celebrate is the extension of flame-throwing closer Felipe Rivero’s contract, so if we can make it to the 9th inning, we have a good chance that he’ll hold it down for us. The two young main pieces we got in exchange for Cole

from Houston — pitcher Joe Musgrove and third baseman Colin Moran — seem like they have the potential to blossom in Pittsburgh.

The two of them were sitting deep in the depth chart on an extremely talented Astros roster. Musgrove was thrown into a relief role because the Astros had too many incredible starting pitchers already, and Colin Moran would never see significant playing time behind Alex Bregman. There was no way for either of the two players to make an impact on the star-studded reigning World Series champions.

However, on in a smaller team with a lot less talent on the roster, we could see both of them become reliable — perhaps even great — players. Musgrove could become a great starter and justify the Bucs’ dumping of Cole. Moran may fill out our hole at third base and become a real power threat. Plus, he’s got a killer beard.

Trading McCutchen closes the curtain on an era of Pittsburgh baseball that had many lows, but also many highs. I choose to look forward to this new team of young blood, and be excited about the future.



Courtesy of Keith Allison via Wikimedia Commons  
The trade of franchise player Andrew McCutchen signals the end of an era for the Pittsburgh Pirates.

Fantasy Football: Easy Breesy wins the Tartan crown



Courtesy of Scott Clause via Flickr Wikimedia Commons  
New Orleans Saints running back Alvin Kamara’s stellar performance secured the win for Tanaya’s team.

MARIKA YANG  
Sports Editor

Welcome to the final Tartan fantasy football recap of the season! After soundly beating my team, Third String Team, defending champion and former Editor-in-Chief India Price’s Yes We Cam faced off against former Sports Editor Ian Tanaya’s Easy Breesy, who just edged out contributing editor Lula Beresford’s Justin Tucker Must (not) Die to make it to the Tartan league’s version of the Super Bowl.

In the end, Easy Breesy defeated Yes We Cam 243.9–210.9 to take the championship crown. It’s a

fitting conclusion to Tanaya’s tenure as Sports Editor and his time at Carnegie Mellon.

**Easy Breesy over Yes We Cam 243.9–210.9**

Just like how the New England Patriots are back in the Super Bowl this season, this matchup was a familiar one for both Tanaya and Price, who competed in the 2016-17 Tartan championship. Last year, Price beat Tanaya by only two points. This year, Tanaya made sure that didn’t happen again.

With strong Week 16 performances from Buffalo Bills running back LeSean McCoy, Kansas City Chiefs

running back Kareem Hunt, Atlanta Falcons wide receiver Julio Jones, and Patriots tight end Rob Gronkowski, Tanaya built a 20-point lead over Price, marginally better, including 24.4 points from Miami Dolphins wide receiver Jarvis Landry, 17.7 points from Minnesota Viking wide receiver Stefon Diggs, and

---

**Last year, Price beat Tanaya by only two points. This year, Tanaya made sure that didn’t happen again.**

---

who suffered from sub-10 weeks from four of her playmakers. Easy Breesy was leading 124.11–104.5 going into Week 17.

The final week of the NFL regular season saw Yes We Cam perform



Courtesy of Brook Ward via Flickr Wikimedia Commons  
Pittsburgh Steelers running back Le’Veon Bell helped lead Beresford’s team to third place in the league.

back Alvin Kamara’s 128 total yards from scrimmage and 106-yard kickoff return touchdown that led to a whopping 30.8 points, Easy Breesy easily maintained a comfortable lead, taking home the title.

**Justin Tucker Must (not) Die over Third-String Team 183–111.2**

In the competition for third place, Beresford’s team completely clobbered mine, which lived up to its name. If I’m being completely honest, I believe I could’ve had a chance to make it close if I remembered to adjust my lineup. But alas, I didn’t.

After Week 16, the teams

were relatively close, with Justin Tucker Must (not) Die leading 80–68.1. The team ensured the lead with 15.6 points from Patriots quarterback Tom Brady and 20.7 points from Steelers running back Le’Veon Bell. Despite 17.5 points from Chiefs quarterback Alex Smith, a collective 14.8 points from five of my nine starters was too much to overcome.

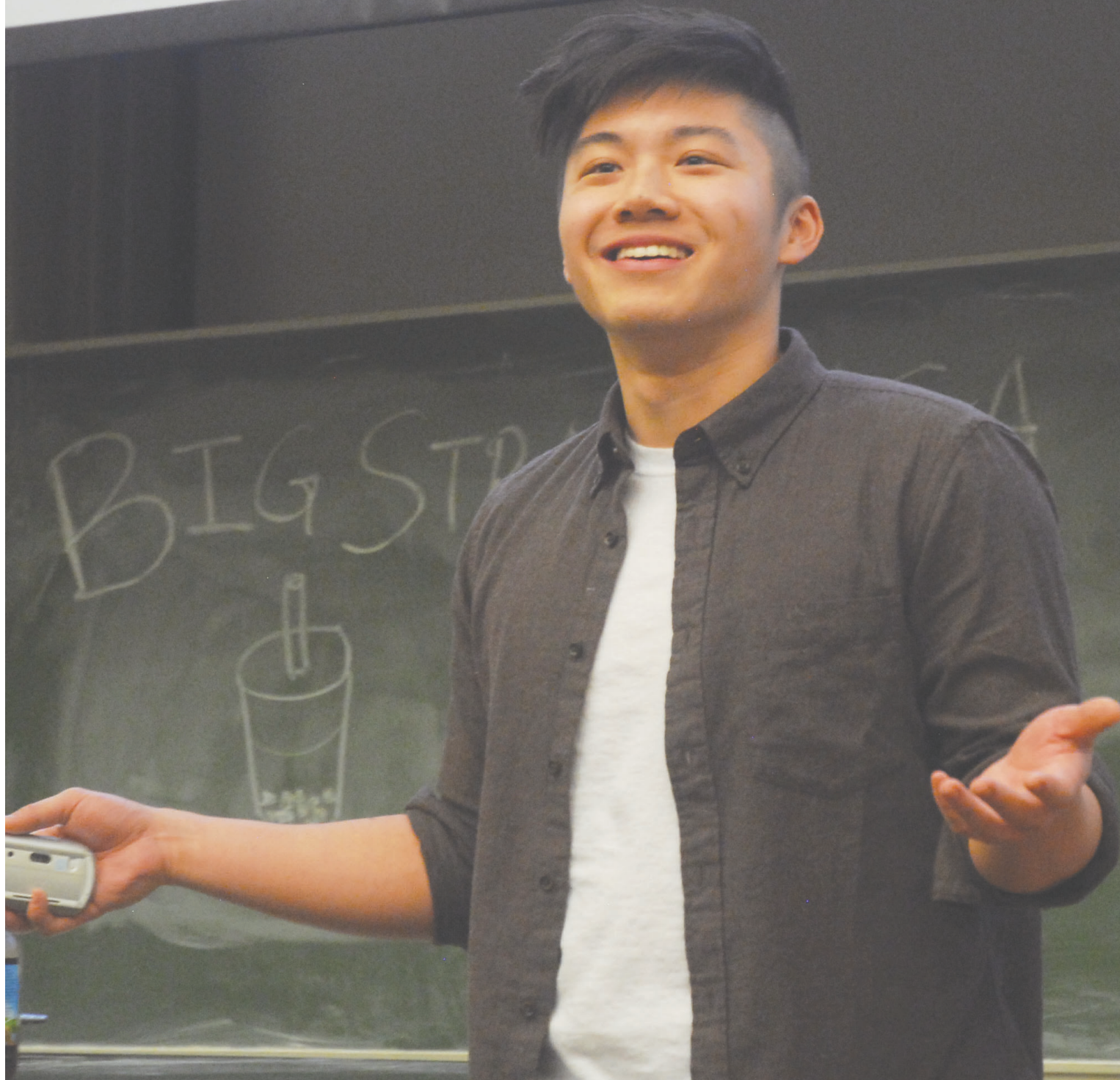
In Week 17, my incompetence really showed. For a third-year fantasy player, I made a fool of myself by forgetting to bench four of my nine starters who didn’t even play.

See **FANTASY**, A10



# pillbox

The Tartan's Art & Culture Magazine



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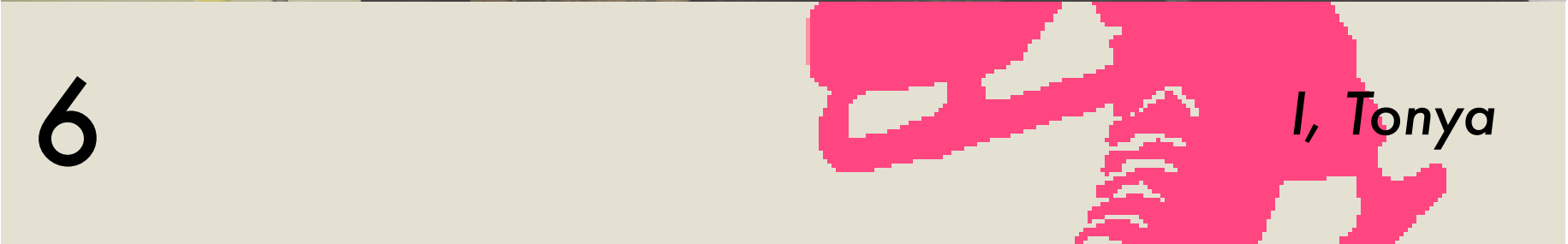
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**Publisher** Caleb Miller **Editor-In-Chief** Valene Mezmin  
**Pillbox Editors** Izzy Sio and Michelle Madlansacay **Comics Editor** Parmita Bawankule  
**Visual Editors** Tracy Le and Paola Mathus **Layout Manager** Ikjong Choi  
**Copy Manager** Juhjung Park **Cover Photo** Lisa Qian



# Advice for Awkward People

On getting your life together

Dear Izzy,

**I'm only 20 and it feels like I'm having a midlife crisis. Well, I guess maybe in this case I'm having an early life crisis. I've had a great time taking my intro classes and some electives in subjects I'm interested in. But I feel like at the start of my sophomore spring, I should have more of my life together. I'm starting to realize that I don't know what I want to do after graduation – I don't know whether I want to go to grad school, or to stay for a masters degree, or to just get the heck out of Carnegie Mellon and apply for a job. I don't even want to start thinking about any of that. I've just realized that for a lot of my life I really don't know what I want to do at all, and additionally there's a lot of things that I love and I'm not sure how to combine them into something that I'll want to do in the future. I know this is a pretty loaded question, but how do I get my life together?**

**Sincerely,  
So Over Planning Heavily Out My Overwhelming Remaining Endeavors**

Dear SOPHOMORE,

First of all, I think I can say with certainty that no one has their life together at the age of 20. Yes,

this is your sophomore spring, but it's also only your sophomore spring. There is still a world of possibilities around you and so many areas of study that you can still explore. Your interests could even change during your junior and senior years. So if you still feel like you're at a crossroads at this stage in your life, don't worry, so is most of the world. But if you're pretty certain about what you want to do in life, or you still want to get a head start on planning your future, that's okay too.

So, I have some bad news: I am also only 20, so I might not be able to give you the older, wiser perspective that might better benefit you. But you know who probably will have that kind of outlook and experience? Your advisor. Yes, I know it sounds like very typical advice straight from an Orientation Counselor, but if anything, your advisor should be able to connect you to resources that will help you learn more about what you can do after leaving Carnegie Mellon and further refine your interests.

If you want to take a self-reflecting approach to this question, take a moment out of your day and analyze your life a little bit. Think, "What do I like about what I'm studying? What do I not like? What do I want to change? What do I want to take with me going forward?" Try

doing this every week, so you can keep yourself informed throughout your year. It also will help you focus on your work during those moments in the semester when it starts to wane and you need to push through hard assignments, projects, and exams.

But most importantly, I want to emphasize that you are not alone. Many people have gone through this at some point in their lives, whether it be during their freshman year while dealing with being away from home for the first time, or during their last possible point during their undergraduate studies, senior spring. So don't be afraid to reach out. Other students and your friends can be your best resource, because they've been in your shoes and know first-hand what it's like to be a student here. They know how to handle the little crises that love to spring up in your life like weeds. And from what I've experienced, your friends as well as other people around Carnegie Mellon will always help give you the tools you need to pull those weeds out no matter what.

Love,  
Izzy

Need advice?  
Send queries to <https://goo.gl/xk23wd>

## Bar Buddies: Mario's Shadyside

For those nights when you're too lazy to go to South Side

If you're part of the 21+ crowd and you go to Carnegie Mellon, you've probably found yourself out and about in Shadyside at least once. Whether it's fighting to get a dollar drink at Stack'd before the clock strikes midnight or just standing around a table at Will Penn, Shadyside is a staple for those of us who are looking to enjoy a drink but are too lazy to go to South Side. My friends and I found ourselves tired of the same old routine with the same old people at Will Penn but still too unmotivated to make it all the way to Southside. Our criteria for the night was very simple: we wanted to go out in Shadyside, but we didn't want to go to Will Penn or Stack'd or anywhere else where the population is at least 70 percent Carnegie Mellon students. This led us to find ourselves standing at a table in Mario's East Side Saloon.

**The location:** Right at the corner of Walnut and Bellefonte, it's almost impossible to miss this place. It's easily accessible by bus or by foot (or by Lyft if you're as lazy as I am). Its location makes it easy to jump from Mario's to another nearby bar, so

even if you don't start your night there, you could end it there.

**The drinks:** I tend to stick to classic drinks like rum and coke or whiskey sour. I really didn't go off book here, so I can't speak on whatever specialty drinks they have. But I will say that aside from dollar drinks at Stack'd, these are the cheapest drinks I've found so far in Shadyside. At \$4 a piece, my bill was considerably less than if I had gone to Will Penn or Stack'd, both of which regularly offer \$5+ drinks. There are a few different bars in Mario's, one downstairs and a few upstairs. Downstairs, all the drinks are given in glass cups whereas upstairs you're given plastic. Despite the change, the drinks are still the same price which upset me for like 10 seconds, but the atmosphere upstairs is so nice, I got over it quickly.

**The vibe:** Walking in, the place is a bit underwhelming. The first floor has a few tables and a bar, and it is probably the most saloony part of the entire place. Upstairs has a deck with wooden tables and a nice atmosphere. The disconnect

Jade Crockem | Contributing Editor

between the first floor and the upper deck is wild. The second floor feels like a rooftop bar in a cool, hip part of town. Most of the place is standing room, and you feel right in the middle of all the action. The crowd is much different than other Shadyside staples with many of the people being in their mid-20s. Although it's only a hop and a skip away from an underage crowd using their fakes to sneak into Stack'd, it feels worlds away as far as the vibe.

**Lit or nah:** It depends on what time you go. We arrived around 10:30 p.m., and I won't say it was totally lit, but maybe just a little dim. By the time midnight rolled around, though, it was considerably more crowded and a lot more lit. So its lit potential, lit-tential if you will, is pretty high. It's a great place to go if one of your favorite things to do at a bar is socialize. With much of the place being standing room, you're forced to stand next to someone you don't know, which makes it easy to strike up a conversation. I'll definitely be coming back next time I want an off-campus field without going the off-campus distance.



# CantoMando

written by Alexandra Yu | Staffwriter  
photos by Lisa Qian | Photo Editor  
layout by Caleb Miller | Publisher



Mike Wu talks about CantoMando in Doherty Hall 2210 at Carnegie Mellon University.

This past Saturday, Jan. 27, Toronto-based, Asian-Canadian YouTube group CantoMando came to Carnegie Mellon University. Hosted by the Carnegie Mellon student organizations Big Straw Magazine, Asian Students Association, and Awareness of Roots in Chinese Culture, roughly a hundred students from Carnegie Mellon and the University of Pittsburgh showed up for the trio's first ever event held on a college campus.

Started in 2016 by Sheldon Ho, and later joined by his friends Edward Leung and Mike Wu, CantoMando is a YouTube channel that harnesses comedy not only for the sake of laughs, but also to bring focus to important issues facing Asians in a more light-hearted way.

Growing up, all three had their own set of difficulties as American-born Chinese (ABCs), which they each highlighted throughout the event. Sheldon grappled with his identity, trying to determine who he wanted to be and who he wanted to be associated with; Mike had trouble accepting his Chinese name, especially around his classmates (most of whom misheard his name as Moose Chin); Edward struggled with coming to terms with the racism he faced both by people of other races, and even Asians, who were swayed by the opinions of others.

Utilizing stock images, personal photos, memes, and the occasional badly-timed slideshow transition to their advantage throughout the event, CantoMando never ceased to capture the audience's attention with both intentional and unintentional humor. While laughter was consistently abundant, much like their videos, CantoMando's talk at Carnegie Mellon masterfully incorporated humor with seriousness as members shared their stories as ABCs.

In the end, however, despite these difficult situations, they learned — and continue to learn — to

accept who they were. They were inspired to bring awareness based on the struggles they had growing up and discuss important issues such as stereotypes, identity, and racial tension. They are seeking to help other ABCs and Asians feel more comfortable with embracing their cultures and identities.

Although I wasn't super familiar with CantoMando going into the event, each member of the CantoMando team's story was engaging, inspiring, and relatable. It was eye-opening to hear about their experiences and truly recognize how everyone has gone through similar identity crises.

I've always had trouble, like Ho, figuring out who I am and where I belong. Especially as someone who is neither a first-generation ABC nor fully Asian, I've never felt fully comfortable expressing my views. I didn't feel like my experiences were valid or qualified enough, and yet as I listened to CantoMando talk, I found that I still shared a lot of similar worries and experiences.

Growing up, I didn't really embrace any of my roots, kind of floating in a limbo. Since coming to Carnegie Mellon, though, I've been able to grow and have had the chance to start discovering who I am and where I belong.

As cliché as it may sound, CantoMando made me realize how important it is for everyone to embrace their identities and find communities that accept them for who they are. They crucially emphasized, however, that embracing our own cultures does not mean we should shut out those who are different and have differing views.

As Leung discussed, when he was faced with a situation of racism, he was initially angry and wanted to hate others. However, with time to reflect, he realized it was not the way to go or resolve conflict. He wanted to bring awareness



to the issues and not be divided over them. He asserted how important it was to not stereotype or try to fit people into boxes based on their race, no matter who they are.

CantoMando continuously discussed how problematic it was to be seen only for the color of their skin and not for the content of their character, yet Leung took it a step farther. At one point, he was faced with a dilemma. On social media, he saw a post that depicted three “white” guys mocking Chinese culture. Another account commented on the post, essentially saying that those three guys were racist and they represented all “white” people’s attitudes toward other cultures. However, Leung decided to respond and expressed his disbelief, correcting the commenter’s blanket statement saying that only “some white people” were like that. However, many of his followers and viewers voiced that they felt betrayed by the stance he took. To be seen as betraying his race merely for not agreeing that all white people are bad was disheartening, especially as someone who strongly advocates for people like him and brings awareness to Asian-Canadian and Asian-American struggles.

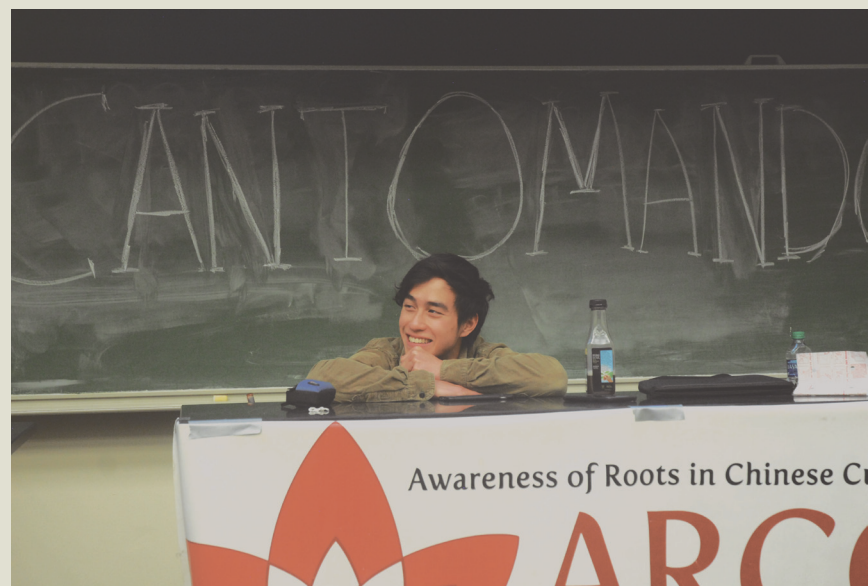
Divisiveness will never solve any problems or reverse any negative views. While it may be easier to cut yourself off from people who hurt you and lose all respect for them, making assumptions and associating all people as bad or good based on the color of their skin causes more harm than it heals.

Ultimately, CantoMando’s university debut was a success. Achieving the perfect balance between being meaningful and funny, the initially nervous group had nothing to worry about, evoking laughter and inspiring many Asian students with their stories and experiences.



Edward Leung talks about his experiences with racism during his childhood.

*“CantoMando made me realize how important it is for everyone to embrace their identities”*



Edward Leung during CantoMando’s talk at Carnegie Mellon University.



# I, TONYA

Written by **India Price** | Contributing Editor  
Layout by **Ikjong Choi** | Layout Editor

Competitive figure skater and Olympic silver medalist Nancy Kerrigan was a symbol of American class and elegance. She came from a family that supported her figure skating career right from the beginning. She was poised and graceful, the epitome of femininity and beauty. Tonya Harding was quite the opposite. But despite these differences, both Nancy Kerrigan and Tonya Harding joined the ranks as some of the best, if not the best, female figure skaters in the world.

Known most infamously for becoming embroiled in the assault of competitor Nancy Kerrigan, Tonya Harding was and is much more than the infamous scandal. *I, Tonya* paints a complex portrait of Tonya, her family, and the fascinating details surrounding “the incident.”

Tonya (Margot Robbie) was born and raised in Portland, Oregon and began skating at the age of three. Tonya was, by no means, the expected image of a young figure skater. She enjoyed hunting, mechanics, and drag racing — things she picked up from her father before he left both her and her mother alone in Portland. From then on, LaVona (Allison Janney), her mother, raised Tonya by herself. *I, Tonya* makes it clear that despite LaVona’s dedication to Tonya’s figure skating training and career,

LaVona both mentally and physically abuses Tonya for much of her life, ultimately driving Tonya into the arms of abusive boyfriend Jeff Gillooly (Sebastian Stan), whom she married when she was just 19 years old.

Despite the abuse, and the need to work several jobs to support her and Jeff, Tonya trained for hours on end to become one of the best figure skaters in the world: She took first place in Skate America and Nations Cup, as well as second in World Championship Skating and the U.S. Olympic Figure Skating Festival. Her top competitor was always Nancy Kerrigan.

Nancy Kerrigan was a crowd favorite. For many Americans, she was their sweetheart. For the judges, she represented everything good in women’s figure skating. Though Tonya’s athletic ability was unmatched, her presentation — composed largely of inexpensive homemade costumes — would never be as crowd-pleasing as Nancy, who could afford any expense necessary, and Tonya knew that.

Nevertheless, Tonya persisted and became the first American woman (and second woman in the world) to attempt and land the triple axel. Finally, she was getting the recognition and love she had dreamed of and always deserved.

*I, Tonya* shows a hard truth behind the success — it doesn’t always translate to happiness. The success drove a wedge between Tonya and Jeff, whose relationship only grew more violent.

The movie uses a pseudo-documentary portrayal of the character’s lives, and it proved to be a strong and effective way of letting the audience inside Tonya’s struggles. She wanted to leave Jeff and continue on in the pursuit of a life without abuse. But, in her struggle to be seen in the public and by the figure skating association as part of a “perfect American family,” she decides against splitting up their relationship.

Tonya makes the 1992 Winter Olympics team and, despite a series of mishaps with her skates and laces, places fourth overall. She is filled with mixed emotions, and Margot Robbie is excellent in showcasing Tonya’s clashing moods. Tonya is still the victim of spousal abuse, and she’s losing the love and respect of the figure skating world.

For a few months, figure skating takes a back seat in Tonya’s life. But, in 1992, it was decided that the Olympics would be moved to 1994, and Tonya now has a chance at making the team. She is more determined than







ever to prove her worth to a world filled with opposition. The cards are stacked against her, but she's driven and takes every chance she can to get better. There's one thing — or person — however, holding her back and she fails to realize it. Jeff Gillooly ultimately leads to the fall of Tonya's career.

Leading up to the Olympics, Tonya began receiving death threats that left her too nervous to take the ice, leaving her with limited practice time. Jeff, along with his up-to-no-good friend Shawn, gets the idea to send Nancy Kerrigan similar letters in the hopes that it will rattle her nerves and level the playing field. Shawn, in a selfish attempt at living out some sort of infamous attack, takes it upon himself to go beyond death threats. He hires two men to attack Nancy Kerrigan. The movie showcases the overwhelming confusion that both Jeff and Tonya experience in response to this. Tonya immediately suspects Jeff's involvement.

Some argue that her hesitation to come forward with suspicion was ultimately her own fault. While this line of thinking isn't completely off the mark, *I, Tonya* highlights how hard it was for Tonya to ever cross her husband — doing so would inevitably lead to further physical, emotional, and mental abuse at her

expense. Though she eventually comes forward, she does so a little too late. To make matters worse, Jeff, overcome with anger at Tonya's decision to finally divorce him, tells the court that Tonya was integral in planning an attack on Nancy Kerrigan. However, it seems fairly clear that Tonya's involvement starts and ends with the decision to send death threats to Nancy's practice arena. After all, Tonya wanted to prove she was the best, and she wanted to prove that she was a superior skater to Nancy. *I, Tonya* makes sure the audience fully realizes how important it was for Tonya to get the opportunity to not just compete in the Olympics, but to compete against Nancy Kerrigan. It wasn't in Tonya's interest to jeopardize Nancy's chances at getting to compete.

Though the media and public opinion jumped immediately to the conclusion that Tonya was a vicious competitor who wanted nothing more than to win that gold Olympic medal, *I, Tonya* does a fantastic job of presenting the details of the incident with all of the grey areas and blurred lines that something so complex deserves. In the movie, Tonya describes the media's coverage as abusive. "You're all my abusers, too," remarks Tonya. The movie doesn't erase Tonya's involvement in lying to

save her husband. But it allows the audience to sympathize with a woman who faced nothing but hatred and abuse, a woman who wanted nothing more than a fair shot at life. Tonya had been taken advantage of and manipulated, and she made irrevocable mistakes that would forever haunt her.

One of the most heart-wrenching scenes in *I, Tonya* comes toward the end of the movie where, following her eighth place finish in the Olympics (with Nancy Kerrigan taking second), a trial for the assault resulted in Tonya's lifelong ban from any figure skating association. Margot Robbie's emotional expression is phenomenal, and the audience's heart breaks along with Tonya's as you realize that she had lost everything she had ever known.

*I, Tonya* sheds new light on an infamously dark spot of American figure skating. The movie forces the audience to leave preconceived notions of Tonya Harding behind and be open to the idea that not everything is as it seems. It allows you to question the "facts" you've previously been told and gives a new voice to someone whose heartbreaking story of abuse and perseverance had been tossed aside and replaced with a media-built portrayal of a fame-hungry villain.





## **“Never underestimate the power of music...”**

written by Natalie Schmidt | Junior Staffwriter  
art by Paola Mathus | Visual Editor  
layout by Tracy Le | Visual Editor

These words, spoken by the main character’s idol, Ernesto de la Cruz (Benjamin Bratt), are the heart and soul of Disney Pixar’s latest film, *Coco*. Lively, heartwarming, and genuine, *Coco* shows us the importance of family and appreciation for cultural traditions. Directed by Pixar veterans Lee UnKrich — director of *Toy Story 2*, *Monsters Inc.*, *Finding Nemo* — and Adrian Molina, who directed *Monsters University* and *The Good Dinosaur*, the film featured the voices of Anthony Gonzalez, Gael García Bernal, and Benjamin Bratt. The film broke box office records in Mexico, passing *The Avengers* to become the highest grossing movie in the country’s history, and for good reason.

The animated film follows Miguel Rivera (Anthony Gonzalez), a young boy with a lifelong dream of becoming an accomplished musician. After his great-great grandfather had left the family to pursue his own dream of music, the Rivera household, hurt and angry, established a generations-long ban on music. As his family prepares for the holiday *Día de los Muertos*, Miguel learns of a music contest: an opportunity to do what he loves most. He takes the advice of his deceased idol, Ernesto de la Cruz, and seizes his moment by literally seizing de la Cruz’s guitar from his altar. This act transports Miguel to the Land of the Dead, where he becomes a part of the spirit world.

In order to return home, Miguel learns that he must receive a blessing from a family member, and attempts to find them in the afterlife. Along the way, he meets the endearing trickster Hector (Gael García Bernal), and together, the two of them travel through the Land of the Dead to reveal the secrets of his family heritage.

*Coco* presents a classic coming-of-age story, one that seems all too familiar, especially when looking at Pixar’s past films; and yet, it remains fresh and original, presenting a different perspective on familial ties through a new cultural lens. The importance of family, deceased or alive, is an enormous part of Latin culture, and is an enormous part of this movie. Miguel’s secret passion for music is made even more relatable when we consider the authority and influence elder family members can have, and his yearning for acceptance and support strikes a familiar chord. While honoring deceased family members isn’t a common aspect of American culture, the film makes us consider the importance of remembrance. In the film, the spirits in the Land of the Dead can experience something called a “Final Death,” which occurs when the last living person forgets them. As sad as it sounds, the film uses this concept to remind audience members to celebrate the lives of their own ancestors.



Rather than coming across as sorrowful in these particular moments, *Coco* is vivacious and compassionate, urging audience members to celebrate their own life and the lives of others.

Right from the beginning, the film displays utterly beautiful visuals: the history of the Rivera family is told through moving *papel picados* (tissue paper banners with designs made by paper cutting), and the bustling neighborhood is full of colorful characters and *mariachis*. The story is intertwined with a swirl of bright saturated oranges, yellows, and blues, making the Land of the Dead even more fantastical and grand. The amount of love and care that went into this movie is evident in the sheer amount of detail put into the visuals, from the individual wrinkles in Grandma Coco's face, to the millions of glowing orange flower petals that form the bridge to the afterlife.

Pixar films have always included music that pulls at our heart-strings, and *Coco* is no exception. From big show tunes to soft lullabies, every song features a Spanish guitar, Miguel's instrument of choice, which adds to the Latin style of the film. The most memorable songs in the film are "Ré cuer dame" (or "Remember Me"), a tear-inducing lullaby; "La Llorona," an energetic Latin pop song; and "Un Poco Loco," a cheerful and humorous love song. While every song has a similar Latin flavor, each character has their own style, from de la Cruz's grand spectacles to Miguel's innocent and fun folk songs, adding another layer of personality to the film's characters. Despite the many songs, the film never drags; in fact, every song serves a purpose and drives the story forward, giving the film life and exuberance.

But by far, the most successful aspect of *Coco* is its wholehearted embracement of Mexican culture. Not only is it a film about a Mexican family on a traditional holiday, it also features an entirely Latinx cast and a vast number of Latinx creators, animators, and consultants. It takes an opportunity to educate without sounding didactic, allowing audiences to experience for themselves the joy these cultural traditions bring. The film takes every opportunity to be as real and accurate as possible, from the *Día de los Muertos* -inspired designs of the spirits in the afterlife, to Miguel's *abuela's* weapon of choice — a *chancla*. It not only emphasizes the importance of diversifying our perspectives, it also emphasizes the need for understanding those perspectives. In a time where anti-immigrant sentiment seems to be rising, much of Latinx culture can be misconstrued or appropriated, and *Coco* presents us with a unique look into their rich culture and traditions in order to better understand it. The creators of the film and the film itself show us how cultural appreciation should be done and encourages the audience to take a moment to understand their perspective.

While it can be nearly impossible to pick a favorite Pixar film, *Coco* is easily in the top three. It's a film that will make you cry, laugh, and cry again, and give you a deep appreciation for your own family. While it may be marketed as a kids movie, it is most definitely enjoyed by audiences of all ages and backgrounds. The film is simultaneously socially conscious and celebratory, providing a fun and appreciative look into Mexico's rich culture. The combination of the endearing characters, spirited music, and astounding visuals makes *Coco* an absolute must-see.





# aladdin's

written by Michelle Madlansacay | Pillbox Editor  
art by Paola Mathus | Visual Editor  
layout by Tracy Le | Visual Editor

**F**or this spring semester, I decided that I would explore a greater diversity of cuisines that are being served in Pittsburgh. Whenever I went out to eat in the previous semesters, I would usually eat at places serving East Asian cuisines. While there are many delicious East Asian restaurants in the area, there are many eateries serving great foods from other cultures as well. Some of the local places serving Middle Eastern cuisine, in particular, have become a few of my new favorite restaurants to go to. Ali Baba in Oakland, as well as Naya and Aladdin's in Squirrel Hill are just a few of the Middle Eastern restaurants closest to campus.

Most recently, I was able to eat at Aladdin's for dinner. Aladdin's is a chain restaurant that mainly serves Lebanese-American cuisine. They offer a variety of dishes, from rolled pita sandwiches to "pizzas" to shish kabobs, all at decent prices. I don't remember ever eating anything from there before my visit, so I did not know what to expect.

Hospitality towards guests is a significant part of the restaurant's draw. Aladdin's claim to provide Lebanese hospitality proved to be true: immediately after entering the restaurant, my friend and I were greeted by a perky waiter who guided us to our table at the back of the establishment and eagerly introduced the menu to us. Since not all of our group had arrived, however, we held off on ordering our

main courses first. Instead, we ordered the appetizer and proceeded to engage in small talk. The relaxed ambiance was perfect for that. The layout of the restaurant was well-planned. While I have felt stifled at other restaurants in Squirrel Hill due to the close proximity of different tables, this was not the case at Aladdin's. The indistinct background chatter and clinking of cutlery provided

## "THE INDISTINCT BACKGROUND CHATTER AND CLINKING OF CUTLERY PROVIDED A COMFORTABLE ATMOSPHERE."

a comfortable atmosphere. Even though the place was filling up fast, never once did we feel rushed by the staff.

Our appetizer arrived promptly. The vegetarian combo appetizer included hummus, tabouli salad, baba ganoush, falafel, and dawali. We had a basket of pitas to dip in the hummus, tabouli, and

baba ganoush. We never quite finished our pitas before a basket of hot fresh ones arrived just as we were finishing up the current basket. The texture of the hummus was a little rough for my liking. The baba ganoush, however, was silky smooth, and had just the right amount of sour to make it excellent.

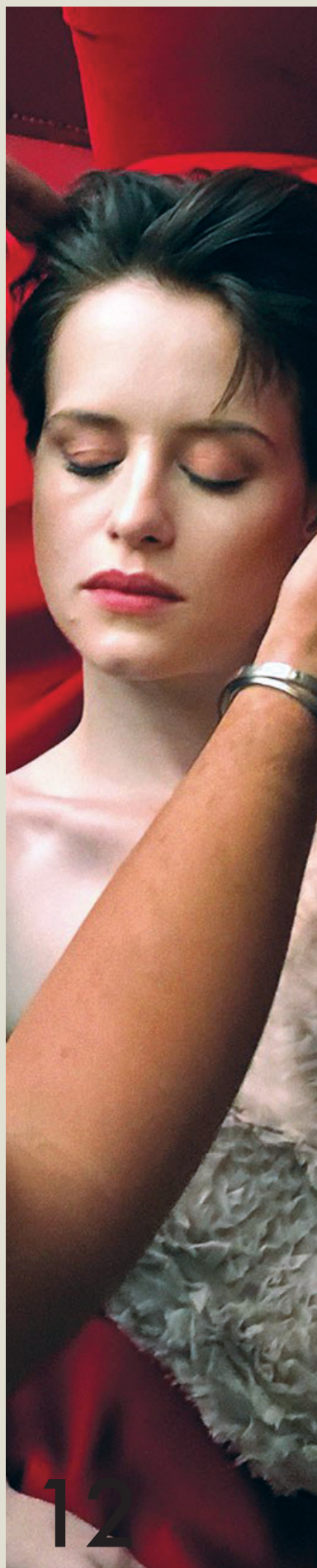
Finally, when the rest of the group arrived, we set about ordering our meals. I ordered an Aladdin's Lamb Rolled pita, which came as one long roll encased in aluminum wrapping. The pita bread was nice and crunchy, and filled with fire-grilled lamb, tomatoes, onions, turnips, and pickles. Tahini yogurt dressing was drizzled along the insides of the rolled pita. The blend of flavors was almost perfect, with the exception of the onion and dressing; there was too much of those. The lamb was flavorful and well seasoned with herbs and spices. It was surprisingly juicy, given that it was somewhat tough. I did hope it would have been more tender. However, for its price, the portions were bountiful.

We ended off the meal with an assortment of baklava — bird's nest, lady fingers, burma, and traditional diamond. I liked the burma baklava, whereas my friend preferred the traditional diamond. While I can comprehend the appeal of simple tastes, I appreciated the infusion of the pistachio taste to the sweetness of the traditional dessert. If you haven't tried Aladdin's, I would definitely recommend giving it a try.











# Vanity Fair

The 2018 Vanity Fair Hollywood issue was filled with quite a few photoshop fails. From adding extra limbs to removing actors, this issue was about as exciting as the year's entire awards season. The name of the game this season is accountability, and while for some it seems a bit hypocritical that they're speaking out on this long brewing issue now after knowing about it for years, it's still nice that strides are being made to bring awareness to sexual assault. Some actors proclaiming "me too" and "time's up" have still refused to denounce movie moguls, such as Woody Allen and Harvey Weinstein. However, if they can use some of their popularity to bring attention to the activists doing the real work, then not all hope is lost.

The cover features Reese Witherspoon and Oprah Winfrey embracing each other. Fans were quick to notice the addition of an extra leg on Witherspoon in the photo, but it appears that this was just a result of the way that her nude colored dress fell. Winfrey however was actually given a third hand in what can only be described as a classic photoshop fail. Both stars were very lighthearted about it and jokingly tweeted about their third limbs. *Vanity Fair*

also issued a statement and made an adjustment to the images restoring Winfrey back to having two hands.

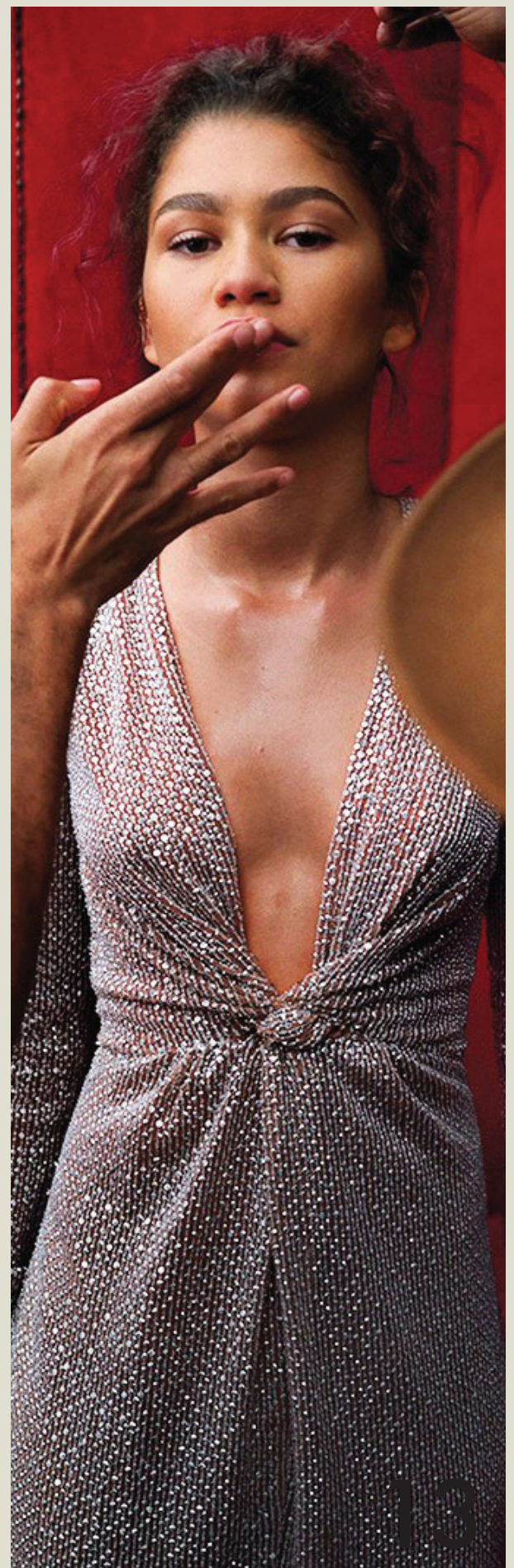
The cover also features Tom Hanks (one of the few scandal-free men left in Hollywood), Nicole Kidman, Jessica Chastain, Zendaya, and more. Many of the actors adorned nude and black attire with the exception of Chastain, who seemed to be the focal point of the image in a red ball gown. I'm not exactly sure what the significance of this is, but it certainly made for a pretty nice picture.

In tune with the rest of Hollywood, *Vanity Fair* digitally removed James Franco from the cover shot a few weeks ago before news of his allegations were brought to light. A statement from the magazine was released saying "We made a decision not to include James Franco on the Hollywood cover once we learned of the misconduct allegations against him." Franco has also been shut out of Oscar nominations for *The Disaster Artist* despite winning the Golden Globe for best actor just a few short weeks ago. The actor was even bold enough to wear a Time's Up pin to the awards, which quickly led his accusers to come forward and call him out for it.

Franco reportedly knew he would be cut as soon as news of his sexual assaults surfaced. After appearing on *Late Night with Seth Meyers*, he stated that "he wants to fix it" if he's done something wrong, but did not apologize to his accusers. He doesn't seem remorseful for his actions but more so just sorry that he got caught with a very "tail between his legs" mentality. Being removed from the *Vanity Fair* cover was a small price to pay in comparison to what his accusers felt.

Despite shutting out *The Disaster Artist*, the Oscars made room for the racially insensitive *Three Billboards Outside of Ebbing, Missouri*, showing they can only really focus on one issue at a time. Last year it was #OscarsSoWhite, and they calmed us down by giving *Moonlight* the Oscar. With all the focus on sexual assault, the Academy seemed to think we would forget about the other issues and look the other way as *Three Billboards* slid its way into the best picture category, despite the movie sympathizing with a racist cop. Hollywood isn't perfect, this we know, but it would be nice if they continued forward with progression instead of taking one step forward and two steps back.

written by Jade Crockem | Contributing Editor  
layout by Ikjong Choi | Layout Editor  
photo courtesy of Kathryn Macleod via [vanityfair.com](http://vanityfair.com)





# *Housing Guide*

*Everything you need to know about 2018 room selection*

*Themed living areas [B19]*

*Upperclassmen housing [B20]*

*Nearby neighborhoods [B25]*



**THE TARTAN**



# HOUSING GUIDE 2018



*Above and page three: Clyde House, Carnegie Mellon's themed house touted as a global living-learning community.  
File photos by Braden Kelner*

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# Room selection explained

## Terms and technicalities to guide you through the process

Room Selection offers students several options: room retention, room with a retainer (also known as a “pull-in”), block housing, general room selection, themed housing, RA/CA housing, gender-neutral housing, and open assignments.

Most students will participate in one of three Room Selection choices: room retention, room with a retainer, or general room selection. However, a wide variety of housing options is available to all students. Room Selection begins on Feb. 21, so all students returning next year should be actively thinking about their housing plans for the 2018–19 school year.

### Room retention

Room retention, the first phase, is for students planning to retain their current room for the next school year. Although there are some exceptions, room retention is available to most upperclass students, except those in themed housing, a first-year residence hall or apartment, or an RA/CA room. First-year students are not eligible to retain their rooms, regardless of their room location. Students considering room retention should remember that once they retain, they cannot change or cancel their housing assignment until the open cancellation period begins.

### Room with a retainer

Students retaining their rooms during the first phase are required to fill any vacancies in the room, suite, or apartment with “pull-ins.” In order to be “pulled in” to a room, students must be eligible to participate in Room Selection and must not have already selected an assignment for the school year.

### Block housing

The block housing phase of room selection allows groups of students to select a “block” of rooms near each other in one of the applicable residence halls or apartments. Students electing to apply for block housing must identify a group representative who will be responsible for setting up their block housing group on the housing application and will remain the main contact point between the group and Housing Services.

### General room selection

General Room Selection is the final phase of Room Selection. During this phase, students eligible for housing who haven’t participated in the preceding phases choose a room from the remaining spaces. Students planning to participate in general Room Selection must apply online. They are then given a random timeslot for Room Selection.

### Themed housing

Themed housing allows students to apply for housing centered around a certain interest or theme. Themed houses are detailed on page six of this guide.

### RA/CA housing

RA/CA housing is only available for those students holding an RA or CA position during the 2018–19 school year. These students will not be eligible to participate in Room Selection, and will instead be assigned a room through the application and selection process carried out by the Office of Residential Education.

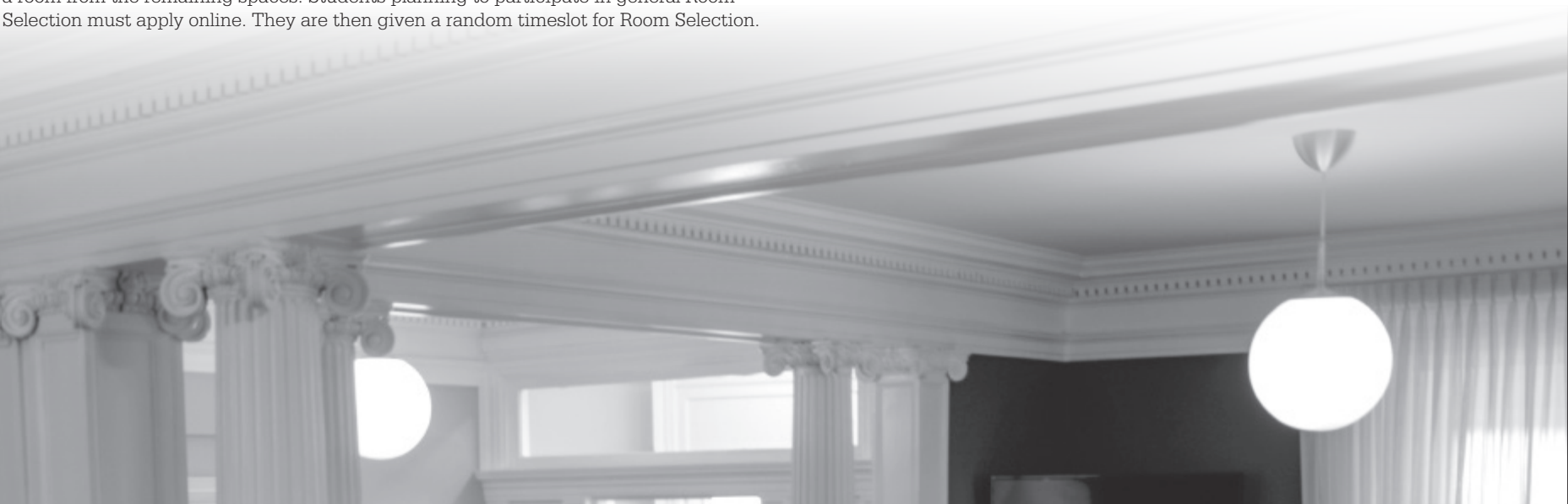
### Gender-neutral housing

Gender-neutral housing permits upperclass residents of different genders to reside in the same room.

### Open assignments

Due to fluctuating availability in room assignments, some students are given an open assignment. This means that while they are guaranteed a room for the 2018–19 academic year, they will not immediately know where that room will be located, or what style of room they will be assigned. After receiving an open assignment, students wait until they receive an offer for a room for the upcoming year. After receiving their offer, they can decline the offer and cancel their housing agreement within three days without penalty, even if the offer was made after the open cancellation period ends.

For more details about the Room Selection process, visit [www.cmu.edu/housing/roomselection](http://www.cmu.edu/housing/roomselection).





# Phase deadlines and other information

## What's new for 2018 Room Selection and selection phases

### Henderson House

Henderson Wellness House will not require an application process during Room Selection 2018. It's retainable and retaining residents can pull in roommates. Remaining spaces will be filled through General Room Selection.

### Boss House

Prime rooms on the second and third floors of Boss House will be available to upper-class residents during Room Selection. The first floor will remain as designated first-year housing.

### SkyVue Apartments

SkyVue is not retainable and will not be a housing option for next year.

### Welch House

The first floor of Welch House will become quiet-living housing for first-year students beginning in Fall 2018. Residents who wish to remain in Welch but live on the first floor are welcome to retain, but will be relocated to a comparable space on the second or third floors.

### Morewood Gardens

Morewood Gardens will continue to have a first-year community for the 2018-2019 academic year. Current first-year residents are eligible to retain through Room Selection.

### Cancellation Fee

## ROOM SELECTION 2018: *FIND YOUR PLACE!*

Students eligible for Room Selection should select the phase that best fits their housing needs and then follow the steps below.

### ROOM SELECTION BEGINS

The Housing Portal becomes available on February 21.

### RETAIN YOUR ROOM

I want to stay in my current room and building.

Retain your room by February 23 at noon via the Housing Portal.

### PULL-IN A ROOMMATE

I need a roommate for my retained room or I need pulled into another room.

Attend a pull-in mtg: Feb. 23 (2-6 pm) or Feb. 26 (2-6 pm) in the Res on Stn.

### BLOCK HOUSING

I want to move to a residence hall or an apartment with a group (8-12 people).

Apply for Block Housing by Feb. 26 at noon via the Housing Portal.

### GEN. ROOM SELECTION

I want to live on campus and select my room based on available spaces.

Apply for General Room Selection by March 2 at noon via the Housing Portal.

Block Leader attends the assigned Block appointment on Feb. 28 or March 1 in the Res on Stn.

Select your room **ONLINE** during your assigned time slot: March 5, 6, or 7.

You may also opt for an Open Assignment (when rooms open up during the cancellation period) or participate in Extended Selection (when you don't need to fill a room with roommates).

MORE INFO AT [CMU.EDU/HOUSING/ROOMSELECTION](http://CMU.EDU/HOUSING/ROOMSELECTION)

Questions? Contact [rassign@andrew.cmu.edu](mailto:rassign@andrew.cmu.edu) or 412-268-2139.

Carnegie Mellon University  
Housing Services

*Courtesy of Housing Services*



























# Living on campus vs. living off campus

## Questions to ask and tools to help you decide

Deciding whether or not you want to live on campus next year can be a tough decision. Both on-campus and off-campus living have their appeals, and the right option will almost definitely come down to each individual's unique living needs.

Use the chart below to determine the costs of living off campus versus living on campus. The column on the left shows what is included in on-campus housing. Ask prospective landlords the cost of each of these items listed below and fill in the dollar amount next to the appropriate icon. For items or services that you do not believe are applicable to you, write 0 in the blank. Total all costs and compare to the cost of living on campus as you make your decision for next year. Chart provided by Housing Services.

If you do choose to live off campus next year, Carnegie Mellon's off-campus website is a good resource: <https://offcampus.housing.cmu.edu/>

ON-CAMPUS HOUSING	OFF-CAMPUS HOUSING
 UTILITIES	 \$ _____
 WATER/SEWAGE	 \$ _____
 INTERNET/CABLE	 \$ _____
 LAUNDRY *	 \$ _____
 COMMUTING	 \$ _____
 TRASH/RECYCLING	 \$ _____
 FITNESS FACILITIES	 \$ _____
 FURNISHINGS	 \$ _____
 SAFETY/SECURITY	 \$ _____
 TUTORING	 \$ _____
 MAINTENANCE	 \$ _____
 CLEANING SERVICE	 \$ _____

Courtesy of Housing Services

## Questions to ask when deciding where to live:

If you are considering moving off campus, be sure to ask these questions, provided by Housing Services, before you sign a lease:

### *Rent and Additional Costs*

Is there an application or holding fee? If yes, what is the cost?

What utilities are included in the rent?

How much is the security deposit?

When is the rent due?

### *Leases*

In case you plan to study abroad for part of the school year or summer, are variable lease options available (six, nine, or 12 months)?

Is individual lease liability offered?

How many people is this unit legally zoned for? In the city of Pittsburgh, it is illegal for more than three unrelated individuals to live together in a residential dwelling.

Do you have a rental license on file with the city of Oakland?

Will I be able to sublet my unit in the summer or for study abroad?

### *Repairs and Maintenance*

Will any repairs be made to the unit prior to move in?

How quickly do you make repairs when there is a work request or maintenance issue?

Do you take before and after pictures to help guarantee I get my security deposit back?

### *Amenities*

What type of security does the building offer?

What type of parking is offered?

What appliances are provided, and how old are they?

Who is responsible for yard maintenance and snow removal?



# HOUSING GUIDE

## THEMED HOUSING



### CLYDE HOUSE

**Location:** ON CLYDE STREET, ACROSS FROM SHADY OAK APARTMENTS

**Styles of housing:** EFFICIENCY (TWO- OR THREE-STUDENT) APARTMENTS

**Size:** 24 RESIDENTS

**Other amenities:** FITNESS EQUIPMENT, TV ROOM, COMMUNITY KITCHEN, LAUNDRY FACILITIES, AND LOUNGES ON MULTIPLE FLOORS.

CLYDE HOUSE IS TOUTED AS THE UNIVERSITY'S "GLOBAL LIVING-LEARNING COMMUNITY." FOR STUDENTS WHO HAVE INTERCULTURAL INTERESTS AND WANT TO DISCUSS GLOBAL CITIZENRY, THIS IS THE RIGHT HOUSE. AS AN ADDED BONUS, THE FACILITIES ARE SOME OF THE NICEST ON CAMPUS.

### NEVILLE APARTMENTS

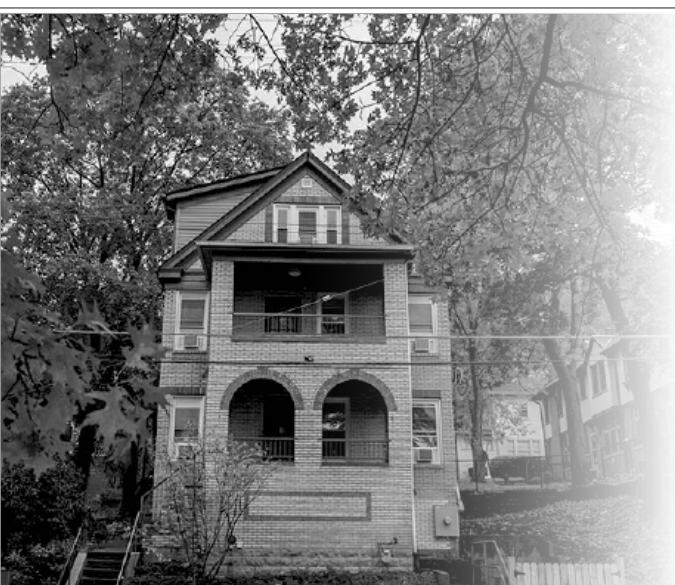
**Location:** ON THE CORNER OF FIFTH AVENUE AND NEVILLE STREET

**Styles of housing:** 5 TO 6 PERSON APARTMENTS WITH SINGLE AND DOUBLE ROOMS

**Size:** 22 RESIDENTS

**Other amenities:** KITCHEN AND LIVING ROOM IN EACH APARTMENT. COMMON BASEMENT SPACE.

EACH APARTMENT IN THIS COMPLEX CONTAINS TWO BATHROOMS AND TWO KITCHENS, PERFECT FOR A VEGETARIAN KITCHEN SEPARATE FROM A MEAT-LOVER'S KITCHEN. LIVING ROOMS ARE DECENTLY SIZED, AND THERE ARE ALSO SEPARATE DINING AREAS OR, IF YOU WANT, SECOND LIVING ROOMS. LAUNDRY IS IN THE BASEMENT, WHICH IS ONLY ACCESSIBLE BY TRAVELING OUTSIDE. IT'S NOT TOO FAR FROM CAMPUS, BUT NOT TOO CLOSE, EITHER. AS AN ADDED BONUS, CRAIG STREET IS NEARBY.



### SPIRIT HOUSE

**Location:** MARGARET MORRISON STREET

**Styles of housing:** HOUSE SINGLES, DOUBLES, TRIPLES

**Size:** 13 RESIDENTS

**Other amenities:** A SPACIOUS LIVING ROOM, KITCHEN, LAUNDRY ROOM, AND STUDY ROOM.

NEWLY RENOVATED, SPIRIT HOUSE IS A THEMED LIVING COMMUNITY DESIGNATED FOR MEMBERS OF THE SPIRIT STUDENT ORGANIZATION, WHICH PROMOTES A SENSE OF FELLOWSHIP WITHIN THE CARNEGIE MELLON COMMUNITY BY ACTING AS A LIAISON BETWEEN ITS MEMBERS AND THE UNIVERSITY VIA THE PRESENTATION OF CULTURAL PROGRAMS AND THE CHAMPIONING OF BLACK AWARENESS.



# HOUSING GUIDE

## FOR UPPERCLASSMEN

### MOREWOOD GARDENS

**Location:** ON THE CORNER OF FORBES AND MOREWOOD AVENUES

**Styles of housing:** STANDARD SINGLES, PRIME SINGLES, PRIME DOUBLES, PRIME TRIPLES

**Size:** 443 RESIDENTS; SOME FIRST-YEAR STUDENTS

**Other amenities:** TV ROOM, QUIET STUDY LOUNGE, COMPUTER CLUSTER, WORKOUT FACILITY, RECREATION ROOM, MAKERSPACE, AND TWO LAUNDRY FACILITIES IN THE BASEMENT. KITCHENS ON THE SECOND, FOURTH AND SIXTH FLOORS. LOUNGES ON EVERY FLOOR.

CLOSE TO CAMPUS, ABOVE THE UNDERGROUND, AND EQUIPPED WITH A CLUSTER, THIS DORM IS ONE YOU'LL NEVER HAVE TO LEAVE. LOUNGES CAN BE A GIFT FOR SOCIAL STUDENTS, BUT A PAIN FOR THOSE WHO WANT QUIET. ROOMS ARE HIT OR MISS, SO CHECK THEM OUT BEFORE LOCKING IN YOUR CHOICE.



### WELCH HOUSE

**Location:** ON THE "HILL," BEHIND FIRST-YEAR SCOBELL HOUSE

**Styles of housing:** PRIME SINGLES AND PRIME DOUBLES

**Size:** 56 RESIDENTS

**Other amenities:** TV AND STUDY LOUNGES ON THE BUILDING'S GROUND LEVEL, ALONG WITH A KITCHEN, LAUNDRY FACILITIES, AND RECREATION ROOM.

THE MOST IMPORTANT THING TO KNOW ABOUT THIS HOUSE IS THAT IT HAS A 24-HOUR QUIET RULE. THIS RULE MEANS THAT THE DORM HAS A DIFFERENT ATMOSPHERE THAN OTHER DORMS. STUDENTS TEND TO KEEP TO THEMSELVES, BUT YOU WON'T BE DISTRACTED BY NOISE.



### McGILL HOUSE

**Location:** ON THE "HILL," ACROSS FROM BOSS, IN FRONT OF HAMERSCHLAG

**Styles of housing:** PRIME SINGLES AND PRIME DOUBLES

**Size:** 72 RESIDENTS; OPEN TO FIRST-YEAR STUDENTS TOO; ALL FEMALE

**Other amenities:** ONE KITCHEN AND LOUNGE ON EACH FLOOR, AS WELL AS A MAIN LOUNGE WITH A STUDY LOUNGE ON THE FIRST FLOOR. LAUNDRY FACILITIES.

McGILL HOUSE IS AN ALL-FEMALE DORM WITH ROOMS ARRANGED IN SUITES. ROOMS ARE SMALL AND MANY RESIDENTS LOFT THEIR BEDS, BUT SEMI-PRIVATE BATHROOMS ARE A PLUS. THE DORM IS CLOSE TO A NUMBER OF EATERIES, INCLUDING CARNEGIE MELLON CAFÉ AND NEARBY FOOD TRUCKS.





# HOUSING GUIDE

## FOR UPPERCLASSMEN



### WEST WING

**Location:** ADJACENT TO GESLING STADIUM, NEXT TO THE UNIVERSITY CENTER

**Styles of housing:** PRIME SINGLE, PRIME DOUBLE, SUITE SINGLE, SUITE DOUBLE

**Size:** 108 RESIDENTS

**Other amenities:** KITCHENS ON SOME FLOORS. LOUNGES ON EACH FLOOR. LAUNDRY FACILITIES, TELEVISION ROOM, RECREATION ROOM, AND COMPUTER CLUSTER. MINDFULNESS ROOM ON THE GROUND FLOOR.

WEST WING IS PRIMARILY MADE UP OF SUITES WITH TWO DOUBLES AND A SINGLE, ALONG WITH A COMMON BATHROOM AND SUITE LOUNGE. THERE ARE SOME PRIME SINGLES AND DOUBLES.

WEST WING IS POPULAR BECAUSE IT IS SUITE-STYLE AND IN THE CENTER OF CAMPUS.

### RESNIK HOUSE

**Location:** NEXT TO WEST WING

**Styles of housing:** Prime singles, prime doubles, suite singles, suite doubles

**Size:** 150 RESIDENTS

**Other amenities:** KITCHENS ON SOME FLOORS. LOUNGES ON EACH FLOOR. LAUNDRY FACILITIES, TELEVISION ROOM, RECREATION ROOM, AND COMPUTER CLUSTER CLOSE BY IN WEST WING.

LIKE WEST WING, RESNIK HOUSE PRIMARILY HAS SUITES WITH TWO DOUBLES AND A SINGLE. THE SUITES HAVE A COMMON BATHROOM AND LOUNGE. SOME PRIME SINGLES AND DOUBLES EXIST. DON'T NEED TO TRAVEL FAR FOR FOOD. THE CARNEGIE MELLON CAFÉ IS ON THE FIRST FLOOR. THE UPPER-CLASS BXA THEMED LIVING COMMUNITY WILL BE LOCATED IN THE RESNIK 580 SUITE.



### DOHERTY APARTMENTS

**Location:** ACROSS THE STREET FROM THE EAST CAMPUS GARAGE

**Styles of housing:** EFFICIENCY (TWO-PERSON) AND ONE-BEDROOM (THREE-PERSON) APARTMENTS, A FIVE-PERSON APARTMENT IN THE BASEMENT

**Size:** 152 RESIDENTS

**Other amenities:** KITCHENS IN EACH APARTMENT. STUDY AND TV LOUNGES, RECREATION ROOM, AND EXERCISE AND LAUNDRY FACILITIES.

DOHERTY IS CLOSE TO CAMPUS AND ONLY A FEW MINUTES AWAY FROM MOST CLASSES. THE APARTMENTS ARE DIVIDED INTO FOUR SEPARATE TOWERS WITH THEIR OWN RAs. THE ROOMS CAN BE SMALL, BUT ARE BIGGER THAN FIRST-YEAR DORMS. CMU EMS RESIDES IN THE BASEMENT.



# HOUSING GUIDE FOR UPPERCLASSMEN

## WEBSTER HALL APTS.

**Location:** ON THE CORNER OF FIFTH AVENUE AND NORTH DITHRIDGE STREET

**Styles of housing:** ONE-BEDROOM (TWO-PERSON), AND TWO-BEDROOM (THREE-PERSON) APARTMENTS

**Size:** 256 RESIDENTS

**Other amenities:** TV ROOM, QUIET STUDY LOUNGE, WORKOUT FACILITY, RECREATION ROOM, AND TWO LAUNDRY FACILITIES.

WEBSTER HALL APARTMENTS IS FAR FROM CAMPUS, BUT HAS SOME OF THE NICEST LIVING ARRANGEMENTS, WITH FURNISHED LIVING ROOMS, KITCHENS, AND BATHROOMS. THERE'S A DELI IN THE BUILDING, AND LAUNDRY ROOMS ON EACH FLOOR. ROOMS ARE EXPENSIVE COMPARED TO OTHER UNIVERSITY OPTIONS.



## FAIRFAX APARTMENTS

**Location:** ON FIFTH AVENUE, CLOSE TO SOUTH CRAIG STREET

**Styles of housing:** EFFICIENCY (TWO-PERSON), ONE-BEDROOM (TWO-PERSON), AND TWO-BEDROOM (THREE-PERSON) APARTMENTS

**Size:** 355 RESIDENTS

**Other amenities:** WORKOUT ROOM, LAUNDRY FACILITIES, RECREATION ROOM.

LIKE WEBSTER, EACH APARTMENT IN FAIRFAX HAS A BATHROOM AND KITCHEN, AND THEY ARE SOME OF THE NICEST OFFERED BY THE UNIVERSITY. THIS BUILDING HOSTS A NUMBER OF NON-COLLEGE STUDENTS AND IS A GREAT TRANSITION FROM COLLEGE LIFE. LIKE WEBSTER, ROOMS HERE ARE EXPENSIVE.

## SHADY OAK APARTMENTS

**Location:** ON CLYDE STREET, CLOSE TO CLYDE HOUSE

**Styles of housing:** EFFICIENCY (TWO-STUDENT) APARTMENTS, AS WELL AS TWO- AND THREE-BEDROOM (THREE-STUDENT) APARTMENTS

**Size:** 79 RESIDENTS

**Other amenities:** FITNESS ROOM, LAUNDRY FACILITIES, TV ROOM, AND LOUNGE WITH COUCHES AND A TV. STREET PARKING AVAILABLE ON CLYDE STREET.

EACH APARTMENT IN SHADY OAK HAS A FULL KITCHEN WITH A DISHWASHER. THE LAYOUTS VARY GREATLY FROM APARTMENT TO APARTMENT, WITH SOME HAVING SINGLE BEDROOMS AND NO COMMON LIVING SPACE, OTHERS HAVING SHARED BEDROOMS WITH SPACIOUS LIVING ROOMS, AND OTHERS HAVING A COMBINATION OF THE TWO.





# HOUSING GUIDE

## FOR UPPERCLASSMEN



### WOODLAWN APARTMENTS

**Location:** ON THE CORNER OF FORBES AVENUE AND MARGARET MORRISON STREET

**Styles of housing:** ONE-BEDROOM (THREE-STUDENT), TWO-BEDROOM (THREE- OR FOUR-STUDENT), AND FOUR-BEDROOM (SEVEN-STUDENT) APARTMENTS

**Size:** 33 RESIDENTS

**Other amenities:** LAUNDRY FACILITIES. THE FRAME GALLERY IS ON THE FIRST FLOOR FACING FORBES AVENUE.

THESE APARTMENTS, CLOSE TO CAMPUS, HAVE KITCHENS, LIVING ROOMS, AND PLENTY OF SPACE. THE BATHROOMS ARE ALSO NEWLY RENOVATED, AND FEATURE HEATED TOWEL WARMERS. THE FRAME GALLERY ALWAYS HAS SOMETHING QUIRKY GOING ON.

### ROSELAWN HOUSES

**Location:** OFF MARGARET MORRISON STREET, NEXT TO THE MARGARET MORRISON APARTMENTS

**Styles of housing:** FIVE-PERSON HOUSES (ONE SINGLE, TWO DOUBLES)

**Size:** 60 RESIDENTS

**Other amenities:** LIVING ROOMS AND KITCHENS IN EACH HOUSE.

RESIDENTS IN ROSELAWN HAVE ACCESS TO A LARGE LIVING ROOM, BUT SMALL BEDROOMS. LAUNDRY IS LAUNDROMAT-STYLE, AND STUDENTS HAVE ACCESS TO MARGARET MORRISON'S LOUNGE AND EXERCISE ROOM. ROSELAWN APARTMENTS, AS WELL AS SPIRIT HOUSE, ARE THE ONLY HOUSE-STYLE LIVING OPTIONS OFFERED BY THE UNIVERSITY.



### THE HIGHLANDS

**Location:** NEXT TO CLYDE HOUSE, ACROSS THE STREET FROM SHADY OAK APARTMENTS

**Styles of housing:** 32 SINGLES AND 1 DOUBLE

**Size:** 34

**Other amenities:** THE UNIVERSITY'S NEWEST BUILDING, INCLUDES BIKE STORAGE AND AIR CONDITIONING.

NESTLED IN THE SMALL BUT GROWING CLUSTER OF HOUSING INCLUDING THE SHADY OAK APARTMENTS AND CLYDE HOUSE, THE HIGHLANDS IS A BIT OF A WALK FROM CAMPUS, BUT HAS AMENITIES TO MAKE UP FOR IT. THE BUILDING IS ALMOST COMPLETELY SINGLE ROOMS, WHICH IS GREAT IF YOU WANT TO LIVE ALONE, BUT STILL BE PART OF CAMPUS HOUSING. THE BUILDING INCLUDES LAUNDRY FACILITIES, AIR CONDITIONING, BIKE STORAGE, AND A STUDY/COMMUNITY LOUNGE.



# HOUSING GUIDE

## FOR UPPERCLASSMEN

### MARGARET MORRISON APTS.

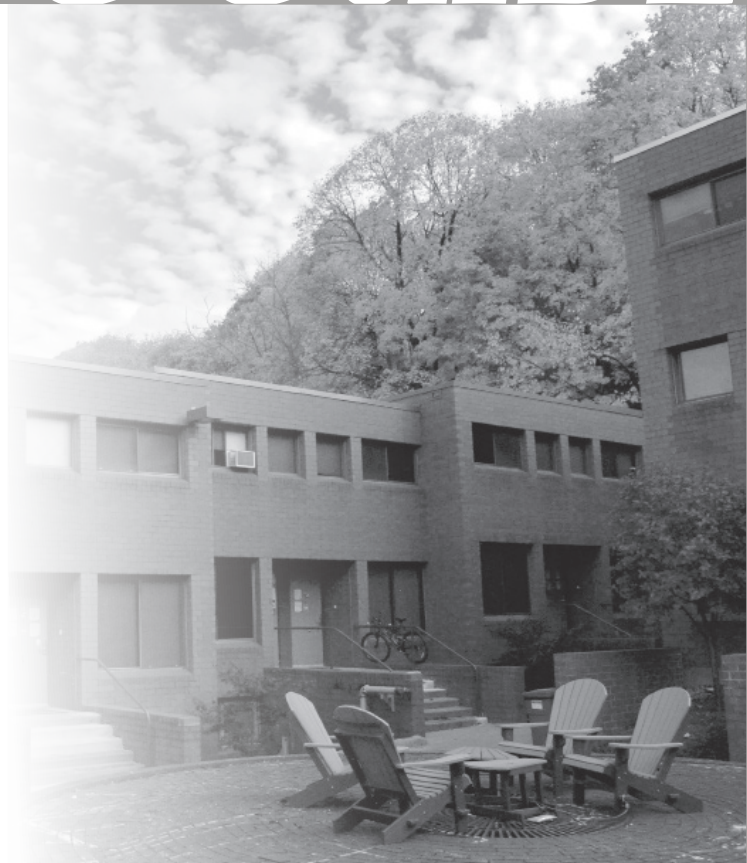
**Location:** ON MARGARET MORRISON STREET, ACROSS FROM THE FOOD TRUCKS

**Styles of housing:** TWO-BEDROOM (FOUR-STUDENT), FOUR-BEDROOM (EIGHT-STUDENT)

**Size:** 112 RESIDENTS

**Other amenities:** A SHARED FITNESS ROOM, LOUNGE, AND LAUNDRY FACILITIES.

WITH LOUNGES AND KITCHENS IN EACH TWO-STORY APARTMENT, THESE LIVING AREAS ARE SOME OF THE LARGEST ON CAMPUS. THEY OFFER A SENSE OF FREEDOM FROM THE TRADITIONAL DORM, BUT ARE SO CLOSE TO EVERYTHING ON CAMPUS THAT YOU NEVER HAVE TO WORRY ABOUT BEING LATE.



### GREEK QUADRANGLE/APTS.

**Location:** ACROSS THE STREET FROM THE UNIVERSITY CENTER, ON MOREWOOD AVENUE; APARTMENTS ARE NEXT TO MCGILL HOUSE ON MARGARET MORRISON STREET

**Styles of housing:** MOSTLY DOUBLES, A FEW SINGLES AND TRIPLES

**Size:** NUMBER OF RESIDENTS VARIES BY YEAR AND HOUSE

**Other amenities:** A COMMUNITY OF STUDENTS IN YOUR FRATERNITY OR SORORITY. KITCHENS AND LARGE LIVING ROOMS WITH STUDY AREAS AND RECREATION ROOMS.

WANT TO BE SURROUNDED BY THE BROTHERS AND SISTERS OF YOUR GREEK ORGANIZATION? THEN GREEK HOUSING IS FOR YOU. THESE ARE SOME OF THE NICEST PLACES TO LIVE ON CAMPUS, WITH LARGE SHARED LIVING SPACES, BUT STANDARD DORM-LIKE ROOMS. GREEK HOUSES CAN GET LOUD WHEN MEMBERS COME TO VISIT, BUT OFFER A TIGHT-KNIT COMMUNITY OF CLOSE FRIENDS. STUDENTS CURRENTLY LIVING IN GREEK HOUSES HAVE THE OPTION TO PARTICIPATE IN ROOM SELECTION.



# HOUSING GUIDE

## NEARBY NEIGHBORHOODS

### SHADYSIDE

SHADYSIDE IS HOME TO UPPERCLASSMEN FROM CARNEGIE MELLON AND THE UNIVERSITY OF PITTSBURGH, GRADUATE STUDENTS, AND YOUNG WORKING PROFESSIONALS. ACCESSIBLE BY BUS, IT TENDS TO BE SLIGHTLY PRICIER THAN OAKLAND OR SQUIRREL HILL; HOWEVER, IT IS THE MOST CHARMING OF THE AREAS SURROUNDING CAMPUS, WITH ITS TREE-LINED STREETS AND BOUTIQUES. THE NEIGHBORHOOD IS BEST KNOWN FOR TWO THINGS: SHOPS AND BARS. WALNUT STREET IS LINED WITH A WIDE VARIETY OF SHOPS, AND COZY RESTAURANTS LIKE MERCURIO'S AND THE YARD GASTROPUB ARE INTERSPERSED AMONG THE SHOPS.

WHILE THE AREA NEAR SHADYSIDE'S BARS CAN BE PARTICULARLY LOUD FROM THURSDAY TO SUNDAY, SHADYSIDE IS GENERALLY A VERY RELAXED, QUIET AREA. THE YOUNG PROFESSIONALS AND THE COLLEGE STUDENTS WHO LIVE THERE ARE DIVERSE — FROM ARTISTS TO TECHNICAL MAJORS TO MEDICAL STUDENTS. SHADYSIDE IS A GREAT AREA FOR ANYONE LOOKING FOR EITHER AN ESCAPE FROM CAMPUS OR A POPULAR SHOPPING AND NIGHTLIFE EXPERIENCE.



### SQUIRREL HILL

SQUIRREL HILL STARTS JUST UP THE BIG HILL ON FORBES AVENUE. IT IS EITHER A 20-MINUTE WALK OR A THREE-MINUTE BUS RIDE FROM CAMPUS, AND THE BUSES ARE VERY FREQUENT. THE COST OF LIVING IN SQUIRREL HILL IS HIGHER THAN IN OAKLAND, BUT LOWER THAN IN SHADYSIDE. IN ADDITION TO HOUSING UPPERCLASS STUDENTS FROM CARNEGIE MELLON, SQUIRREL HILL IS ALSO HOME TO FACULTY AND PITTSBURGH FAMILIES NOT ASSOCIATED WITH THE UNIVERSITY. SQUIRREL HILL HAS A DIVERSITY OF RESTAURANTS, FROM THAI FOOD AT SILK ELEPHANT TO BREAKFAST AT THE ORIGINAL PAMELA'S DINER. THE RESTAURANTS ARE DISPERSED AMONG SMALL SHOPS, INCLUDING THOSE ON THE MAIN THOROUGHFARE OF FORBES AVENUE.

IT IS NOT A COLLEGE NEIGHBORHOOD LIKE OAKLAND AND SHADYSIDE, AND IT DOES NOT HAVE A PROMINENT BAR SCENE. IT DOES HAVE A RESIDENTIAL ATMOSPHERE, HOWEVER, THAT THE OTHER TWO AREAS LACK. FOR SOMEONE LOOKING FOR A SHORT RIDE OR WALK FROM CAMPUS WITH ALL THE NECESSITIES WITHIN WALKING DISTANCE AND A WIDE VARIETY OF CUISINES, SQUIRREL HILL MAY BE THE RIGHT PLACE TO LOOK FOR A HOME TO RENT.



### OAKLAND

JUST A 10-TO-15-MINUTE WALK (OR FIVE-MINUTE BUS RIDE) FROM CAMPUS LIES OAKLAND, THE HOME OF LATE-NIGHT FOOD, UNIVERSITY OF PITTSBURGH PRIDE, AND A POPULATION MADE UP ALMOST ENTIRELY OF COLLEGE STUDENTS.

OAKLAND IS HOME TO SOME OF CARNEGIE MELLON STUDENTS' FAVORITE RESTAURANTS, INCLUDING CONFLICT KITCHEN, CHIPOTLE, FUEL AND FUDDLE, AND THE PORCH. FOR STUDENTS OVER 21, OAKLAND HAS A SOLID GROUP OF LATE-NIGHT DESTINATIONS, SUCH AS HEMINGWAY'S, MAD MEX, AND A LIQUOR STORE WITH AN EXTENSIVE SELECTION. ANOTHER BENEFIT OF OAKLAND IS THE AVAILABILITY OF AFFORDABLE HOUSING CLOSE TO CAMPUS. OAKLAND AVENUE AND ATWOOD STREET ARE LINED WITH HOUSING FOR BOTH CARNEGIE MELLON AND UNIVERSITY OF PITTSBURGH STUDENTS.

MOST PEOPLE LIVING HERE ARE ALWAYS UP FOR FUN; IF YOU'RE LOOKING FOR A QUIET NEIGHBORHOOD, OAKLAND MAY NOT BE YOUR CUP OF TEA. OAKLAND SHOULD BE NOTED FOR ITS LIVELY ATMOSPHERE AND IS IDEAL FOR ANYONE LOOKING FOR COLLEGE-ORIENTED SURROUNDINGS.





# Choosing the right place: open house dates

## When to tour the on-campus options on your 'Top 5' list

Below are a number of open houses and information sessions offered by Housing Services to help you make your choice next year. This year, open houses are grouped by area of campus and neighborhood, and are designed for you to see the buildings you might want to live in.

Info sessions will take place in residence halls around campus based on the schedule below. During information sessions, students can ask Housing Services staff questions about the room selection process and campus housing in general.

### Open House Dates

#### Oakland:

Fairfax Apartments, Webster Hall Apartments, Shady Oak Apartments, the Highlands, and Clyde House

Wednesday, Feb. 7, 7–9 p.m.

#### Central Campus:

Morewood Gardens, West Wing/Resnik, and Doherty Apartments

Monday, Feb. 12, 7–8:30 p.m.

*Dining Services will be hosting a soup crawl during this first Room Selection open house!*

#### The Intersection and The Hill:

Margaret Morrison Apartments, Roselawn, Woodlawn Apartments, Welch House, Henderson House, Boss House, and McGill House

Thursday, Feb. 15, 7–8:30 p.m.

### Info. Session Dates

Monday, Jan. 29, 4:30–6 p.m. Boss House

Thursday, Feb. 1, 4:30–6 p.m. Mudge House

Monday, Feb. 5, 4:30–6 p.m. Morewood E-Tower

Tuesday, Feb. 6, 4:30–6 p.m. Morewood Gardens

Thursday, Feb. 8, 4:30–6 p.m. Shirley Apartments

Monday, Feb. 12, 4:30–6 p.m. Hamerschlag House

Tuesday, Feb. 13, 4:30–6 p.m. Donner House

Monday, Feb. 19, 4:30–6 p.m. Stever House

Tuesday, Feb. 20, 4:30–6 p.m. Mc Gill House

Wednesday, Feb. 21, 4:30–6 p.m. Residence on Fifth

For more details about open house dates and information sessions, visit <https://www.cmu.edu/housing/roomselection/index.html#dates>



File photo by Braden Kelner



# *Housing Map* **2018**



- |   |                                |    |                         |    |                       |
|---|--------------------------------|----|-------------------------|----|-----------------------|
| 1 | <i>Greek Quad</i>              | 8  | <i>McGill House</i>     | 15 | <i>Welch House</i>    |
| 2 | <i>Clyde House</i>             | 9  | <i>Morewood Gardens</i> | 16 | <i>West Wing</i>      |
| 3 | <i>Doherty Apts.</i>           | 10 | <i>Neville Apts.</i>    | 17 | <i>Woodlawn Apts.</i> |
| 4 | <i>Fairfax Apts.</i>           | 11 | <i>Roselawn Houses</i>  | 18 | <i>The Highlands</i>  |
| 5 | <i>Spirit House</i>            | 12 | <i>Resnik House</i>     |    |                       |
| 6 | <i>Henderson House</i>         | 13 | <i>Shady Oak Apts.</i>  |    |                       |
| 7 | <i>Margaret Morrison Apts.</i> | 14 | <i>Webster Apts.</i>    |    |                       |

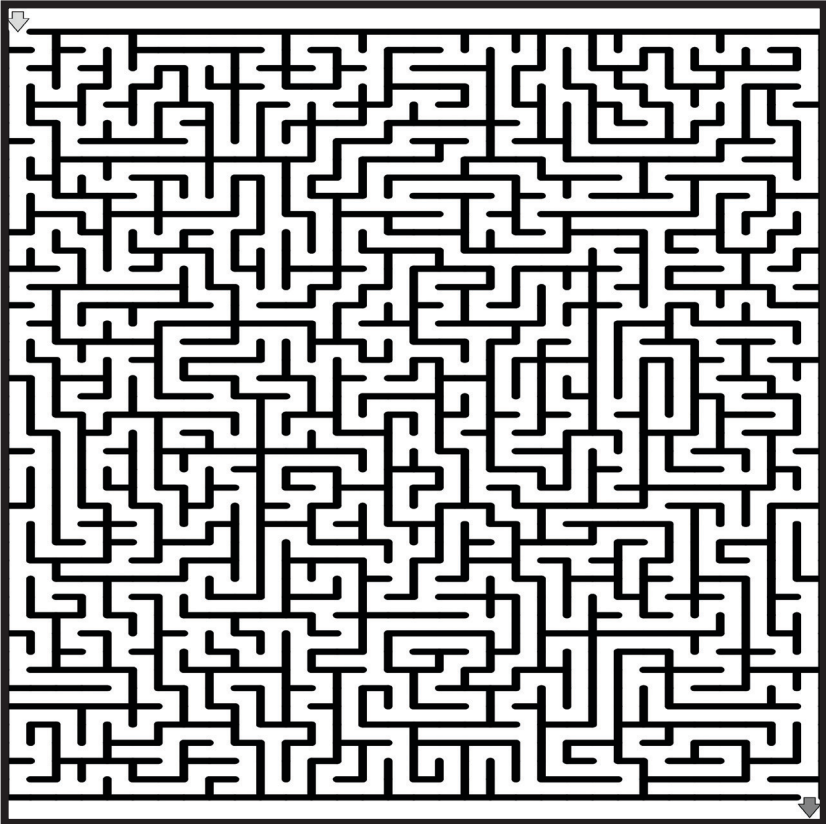


sudoku

	7							
				2		4	9	
		6			4	7	3	
						9		8
			6	5	3			
6		1						
1	5	9	3			2		
	6	7		9				
							4	

sudoku courtesy of [www.krazydad.com](http://www.krazydad.com)

maze



maze courtesy of [www.krazydad.com](http://www.krazydad.com)

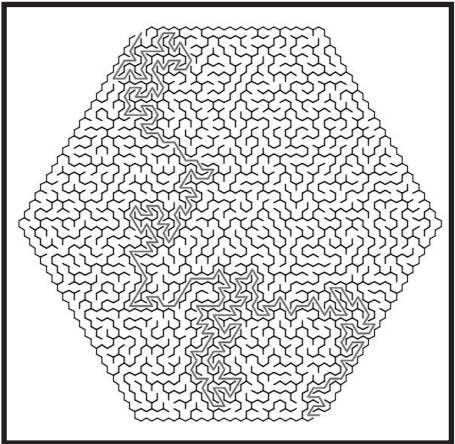
Solutions from Dec. 4

1	2	3	4	5	6	7	8	9	10	11	12	13
M	A	T	S	U		S	P	A	C	E		S
A	A	R	O	N		H	E	I	R	S		C
T	H	U	N	D	E	R	C	L	A	P		O
T	S	E			E	L	I	S		B	R	O
			24	E	R	L	E		25	S	W	I
26	S	A	L	T	L	A	K	E	C	I	T	Y
30	L	O	T	S	A			A	A	S		X
36	E	N	D		Y	E	A	R	N	E	D	
42	D	E	S	I		L	I	T		Y	E	N
			47	P	R	E	D	O	M	I	N	A
51	M	E	S	S	A	G	E		54	E	R	A
55	A	L	P	A	C	A		56	M	A	A	M
60	R	O	E		61	I	N	S	E	N	S	I
64	S	P	A		65	S	C	O	R	E		S
67	H	E	R		68	M	E	Y	E	R		M

crossword

3	9	4	8	5	1	2	6	7
6	2	7	9	3	4	1	8	5
5	8	1	6	2	7	9	3	4
1	4	9	7	8	3	5	2	6
8	6	3	2	4	5	7	1	9
2	7	5	1	9	6	3	4	8
9	3	6	5	1	8	4	7	2
4	5	8	3	7	2	6	9	1
7	1	2	4	6	9	8	5	3

sudoku

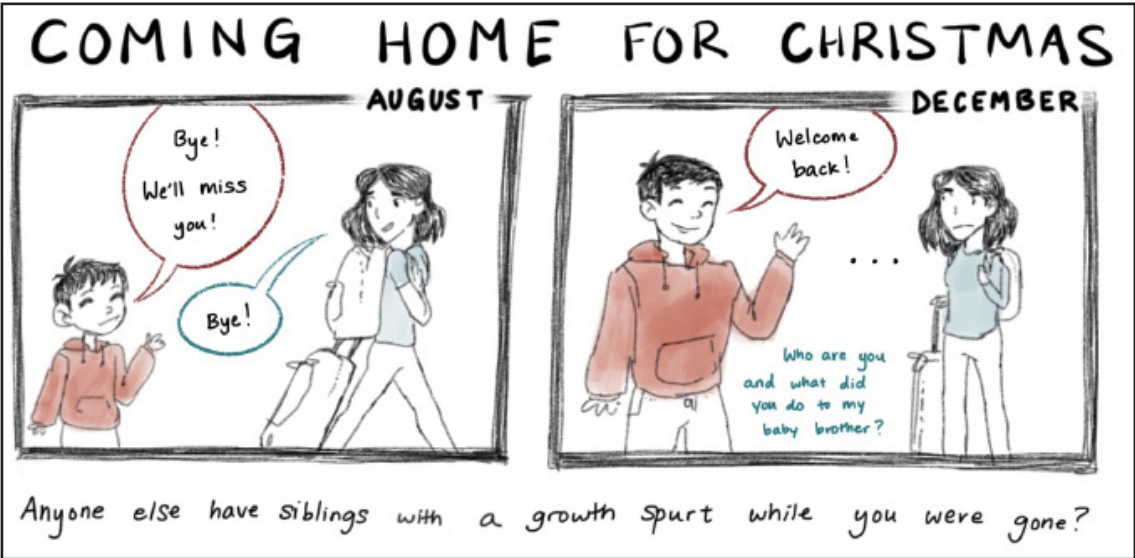


maze



# Winter Break

by Parmita Bawankule



parmdraws.tumblr.com

# Update Available

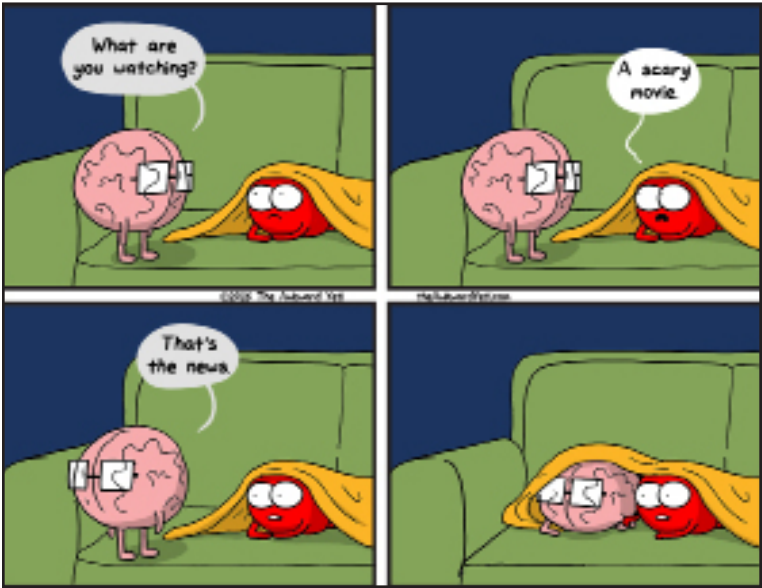
by Meg Quinn



artbymoga.tumblr.com

# Scary Movie

by Nick Seluk



theawkwardyeti.com



horoscopes: The signs back-to-school

**Aries**  
march 21 – april 19

Organized their life with a bunch of new school supplies.

**Taurus**  
april 20 – may 20

Excited, but still cocooned in a blanket every day.

**Gemini**  
may 21 – june 20

This is FINE. Everything is fine. Nothing is on fire.

**Cancer**  
june 21 – july 22

Finally got their stuff together for this semester.

**Leo**  
july 23 – aug. 22

How is there already so much work?

**Virgo**  
aug. 23 – sept. 22

Tries to revive their color-coded schedule.

**Libra**  
sept. 23 – oct. 22

Only 329 days until Christmas!

**Scorpio**  
oct. 23 – nov. 21

Sleeping has become their main activity.

**Sagittarius**  
nov. 22 – dec. 21

Updated their resume and finally made a LinkedIn.

**Capricorn**  
dec. 22 – jan. 19

Ready to ace their next test.

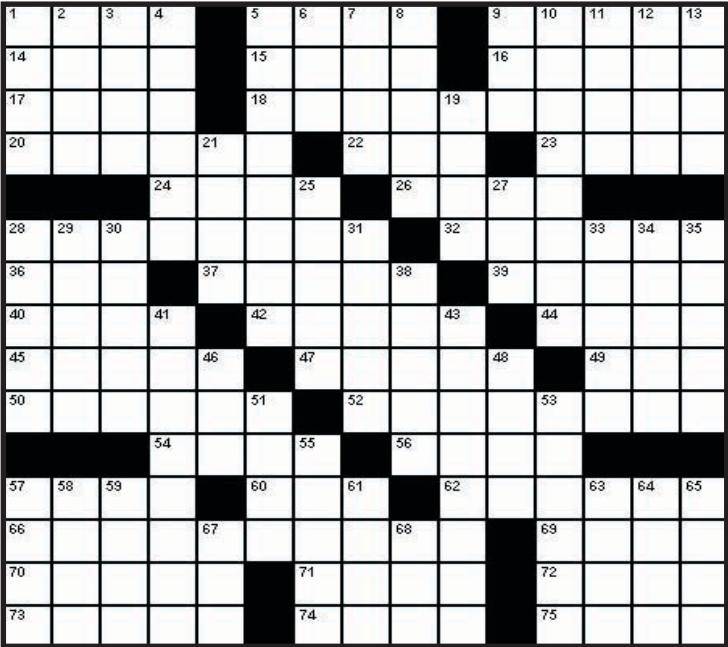
**Aquarius**  
jan. 20 – feb. 18

Misses winter break, but happy to see their friends again.

**Pisces**  
feb. 19 – march 20

Doesn't know what to do. Too much thinking involved.

crossword



Crossword courtesy of *FreeDailyCrosswords.com*

across

- 1. "Born Free" lion
- 5. An earth sci.
- 9. Singer Bonnie
- 14. Lounge
- 15. Unattractive
- 16. Minute Maid Park player
- 17. Rebuff
- 18. Offensive action
- 20. More spine-tingling
- 22. Penlight battery
- 23. Division preposition
- 24. Agrees tacitly
- 26. Former Fords
- 28. Raging
- 32. Monetary unit of Thailand
- 36. Polished off
- 37. French composer Erik
- 39. Contradict
- 40. Tobacco plug
- 42. Not once
- 44. Art \_\_\_\_
- 45. The Hilton, e.g.
- 47. Grain stores
- 49. Wee bit
- 50. Institution for mentally ill
- 52. Pulpny summer refreshment
- 54. Sign of injury
- 56. Wife of a rajah
- 57. Eastern nanny
- 60. Get it?
- 62. Kathmandu resident
- 66. Very fine pasta
- 69. Ladies of Sp.
- 70. \_\_\_\_ once
- 71. Type of market
- 72. Skin disorder
- 73. Rock
- 74. Actor Penn
- 75. Gratuity

down

- 1. Ultimatum word
- 2. Solitary
- 3. Insult
- 4. Deficient in pigmentation
- 5. Protector
- 6. Silly Putty holder
- 7. Gymnast Korbut
- 8. Rotating
- 9. \_\_\_\_ Tafari (Haile Selassie)
- 10. Aided
- 11. Pack \_\_\_\_ (quit)
- 12. Horse's gait
- 13. Up \_\_\_\_ good
- 19. Chow
- 21. Ages and ages
- 25. Satisfies
- 27. Apply lightly
- 28. Russian retreat
- 29. Community spirit
- 30. Full of substance
- 31. Polite
- 33. Prince Valiant's wife
- 34. Battery type
- 35. Crystal-lined rock
- 38. Conger catcher
- 41. Native of Wales
- 43. Inhabitant of Bucharest
- 46. Director Jean-\_\_\_\_ Godard
- 48. Unit of loudness
- 51. Not fem.
- 53. Tries to bite
- 55. Sailing hazards
- 57. Gardner and others
- 58. Dissolve
- 59. He sang about Alice
- 61. Vogue rival
- 63. Sacramento's \_\_\_\_ Arena
- 64. Slender
- 65. Words of understanding
- 67. Mineral suffix
- 68. Meadow



## all week

01.29.18 - 02.02.18

**Oakland Restaurant week**  
Oakland  
Info: [onlyinoakland.org](http://onlyinoakland.org)

Treat yourself to some good food for affordable prices during Oakland Restaurant Week! For six days, you can find items on the menus of some of Oakland's most popular restaurants for just \$6. Be sure to check this out before the end of the week!

01.27.18 - 02.04.18

**Crash Course by ScottyLabs**  
3 p.m.  
Wean Hall 5201  
5000 Forbes Avenue, Pittsburgh, PA 15213  
Register at: [scottylabs.org/crashcourse/](http://scottylabs.org/crashcourse/)

Attend tech-focused workshops and student-led talks to help give you an edge in TartanHacks. It's a great opportunity to enhance your knowledge on topics like data science and web programming. Register if you're interested!

## friday

02.02.18

**Coffee and Italian Cinema: *L'Avventura***  
6:15 p.m. - 9:30 p.m.  
Row House Cinema  
4115 Butler St, Pittsburgh, PA 15201  
Tickets: [www.rowhousecinema.com](http://www.rowhousecinema.com)

Like coffee? How about Italian movies? Relax and treat yourself to a cappuccino while watching the Italian 1960s classic, *L'Avventura* at Row House Cinema. Pay \$9 for just the movie ticket, or pay an extra \$3 dollars for both a ticket and a cup of coffee.

## wednesday

01.31.18

**National Hot Chocolate Day**  
11a.m-10 p.m.  
The Milkshake Factory  
314 Fifth Avenue, Pittsburgh, PA 15222

Celebrate the deliciousness of hot chocolate at the Milkshake Factory, where they're having a buy one get one free deal for their different hot chocolate drinks. Drink various flavors of hot chocolate, or try their hot chocolate floats and milkshakes. Hot chocolate lovers, you don't want to miss this!

***To Kill a Mockingbird (1962)***  
7:30 p.m. - 10:30 p.m.  
AMC Waterfront 22  
300 W Waterfront Dr., West Homestead, PA 15120  
Info at: [facebook.com](http://facebook.com)

As a part of their *Classic Movie Nights* events, the AMC Waterfront 22 theater is hosting a screening of the classic, *To Kill a Mockingbird* for just \$5 with VIP seating. If you loved either the novel or the film, don't miss this opportunity to watch the movie on the big screen for a great price!



# *constrained surface*

Izzy Sio | Pillbox Editor



Aiming to create a synaesthetic experience, where sensory experiences merge “to the point where you cannot adequately describe one sense without talking about another,” German artist Ryoichi Kurokawa’s *constrained surface* is a bold artistic experiment that utilizes the screen as a canvas and light, color, sound, and movement as paints. While Kurokawa’s work is entirely digital, *constrained surface* invokes emotions to create a jolting and imaginative experience. The work was featured in the Wood Street Galleries in the Cultural District as part of the Pittsburgh Cultural Trust’s Gallery Crawl, held Friday, Jan. 26 from 5:30 p.m. – 10:00 p.m.