

MIT's Oldest and
Largest Newspaper

tech.mit.edu



WEATHER, p. 2

TUE: 43°F | 34°F
Sunny
WED: 44°F | 41°F
Breezy and rainy
THU: 50°F | 40°F
Breezy and rainy

Volume 132, Number 51

Tuesday, November 6, 2012

219 Vassar demolition continues



DAVID J. BERMEJO—THE TECH

219 Vassar St. lies halfway demolished at the end of October. This photograph, as well as the others in the photo essay on page 7, were created by merging at least two photographs of different exposure levels into a single image in a process called high dynamic range (HDR) imaging. When done subtly, the resulting image oftentimes more closely resembles human visual perception than a regular, single-exposure photograph.

Is MIT red or blue?
15 to 1 in donations for Obama

By **Leon Lin**
STAFF REPORTER

Have you ever wondered whether your professor leaned right or left politically? This election season, MIT faculty and staff have given more than \$300,000 in direct financial contributions to the presidential campaigns since April 2011, according to public data provided by the Federal Election Commission.

Among the contributors to Barack Obama's presidential campaign were 379 MIT employees, who donated a total of \$283,370. That's over 15 times more than the same total for former Massachusetts Governor Mitt Romney's campaign — \$18,357 — donated by 14 MIT employees.

Individual contributors typically donated multiple times over several months. The average

MIT employee who donated to Obama donated on four separate occasions, for an average total of \$739 per individual. The average amount given by individual Romney donors was higher, at \$1,311. However, in both campaigns the smaller donations were more numerous — the median total individual contribution was \$350 for Obama and \$750 for Romney. Thirty-seven of the 379 people who gave to Obama donated less than \$100 total.

These numbers do not include donations to political action committees, or PACs, which are independent organizations that support particular candidates. This election cycle marked the first time super PACs were allowed to raise unlimited amounts of money from donors who could effectively be kept

MIT contributions, Page 10

Rules of the job search

Recruiting rules not always followed

By **Tushar Kamath**
STAFF REPORTER

With this year's corporate recruiting period in full swing, students and companies both sometimes seem unaware of the corporate recruiting rules set by the MIT Careers Office. Companies have been interviewing MIT students since recruiting at Fall Career Fair on Sept. 21, but while companies are allowed to schedule interviews on any day they wish, the Careers Office imposes rules that generally aim to restrict interviews from clashing and work to reduce stress and conflicts for students.

"One of the things we really think about is that if I were a student interviewing for a company, how much time can I allocate for interviews with this company as well as fit in classes?" said Deborah Liverman, associate director of career services. For example, companies are required to hold second-round interviews at a time that doesn't conflict with other companies' first-round interviews and give a Saturday option for each

second-round interview.

Other policies include: restricting exploding offers — or incentivizing early acceptances of an offer — and requiring scheduling on-site second round interviews within a week of the first-round interview. Furthermore, companies must offer full disclosure on the start date, method of compensation, and the status of the applicant throughout the interview process. Companies also cannot serve alcohol during the interview process, must fully disclose whether they are using a social network (such as Facebook) to evaluate candidates, and are required to keep all parts of the interview process closed to anyone outside of the company.

Despite these guidelines, some students have encountered situations where companies did not abide by these policies. According to a current MIT junior, companies like Adobe have mandated interviews on certain dates with no additional options.

Recruiting, Page 11

IN SHORT

Don't forget to vote! For those registered to vote at Kresge with their MIT address, bring an ID and a proof of residence. This can be a paycheck from MIT, a bank statement, or a utilities bill with your campus address on it. If you don't have these, undergrads can contact Bridgette Kelly (kellyb@mit.edu) in the Housing Office in W59 and graduate students can contact grad-

uatehousing@mit.edu to get a proof of residence letter.

Have an idea for a new business? Applications for the 100K Accelerate Competition open Nov. 7.

Are you an artist? Submit your art for consideration in the MIT Student Art Gallery at McCormick by Nov. 9.

Send news information and tips to news@tech.mit.edu.

Siddiqui '95 loses appeal before 2nd Circuit

Remains sentenced to 86 years in prison for assaulting US officer in Afghanistan

Aafia Siddiqui '95 lost her appeal before the United States Court of Appeals for the Second Circuit yesterday morning. She was convicted in February 2010, and then appealed.

Siddiqui was arrested in July of 2008 in Afghanistan while carrying a handbag full of terrorist paraphernalia. While in custody she shot at U.S. personnel with an M4 assault rifle she picked up off the floor of an interrogation room, and was subsequently remanded into U.S. custody.

In a 42-page decision, a two-judge panel rejected her appeal yesterday on two principal grounds. Firstly, Siddiqui had argued that she could not be charged with attempted murder (18 USC §2332(b)) without a written certification from the Attorney

General. Noting that such a certification was filed the same day as the indictment was filed, the appeals court rejected this reasoning.

Secondly, Siddiqui argued that the remaining six counts against her did not apply outside the United States "in an active theater of war." The court found this "without merit," noting that "Congress has the authority to enforce its laws beyond the territorial boundaries of the United States."

While she is unlikely to prevail on any further appeal, Siddiqui could conceivably request an *en banc* hearing of her case before the entire Second Circuit; she could also petition the Supreme Court. She is unlikely to prevail under either route.

—John A. Hawkinson

New dining: year 2

Enrollment increased 10 percent

By **Maiko Kitaoka**
STAFF REPORTER

After going into effect Fall 2011 following widespread campus controversy, the house dining plans saw higher enrollment this year compared to last year, according to statistics from MIT Dining.

With a 10.1 percent increase in the number of students who enrolled in a meal plan, this year 2078 students purchased a plan as of the end of the change period (Sept. 21, 2012). Last year's meal plan enrollment was 1887.

Most students seem to value flexibility in their

meal plans — those who have more choices tend to lean toward the Any plans, rather than the Basic plans. (The Any plans allow for any combination of meals per week, while the Basic plans only provide breakfast/brunch and dinner.)

Michael Myers, Assistant Director of Dining, stressed that MIT Dining is "trying to work with Bon Appetit and the house dining community, as well as engaging with students, to find out how to incorporate more flexibility [in the meal plans]," making it easier for students to coordinate their class sched-

Dining, Page 6

MIT Gangnam!

INSIDE
Check out *The Tech's* exclusive look behind the scenes of the Institute's newest sensation.
p. 8



DIRECTION OF THE ELECTION?

There are three ways the presidential race might turn out.
OPINION, p. 5

MIT BENDS IT LIKE BECKHAM

Men's soccer triumphs at NEWMAC!
SPORTS, p. 16

WELCOMING LILY ALMEYDA

Grad students get new community police officer.
LETTERS, p. 4



PREPPING FOR A NEW DAYCARE

Half-demolished: 219 Vassar Street, future home of MIT's newest daycare.
PHOTO, p. 7

SANDY: MIT REACTS

From application deadlines to Hurricane Hackers.
CAMPUS LIFE, p. 15

SECTIONS

World & Nation2
Opinion4
Fun Pages12
Campus Life15
Sports16

Who will win tonight's election?

Three different views of reality

By Keith Yost
STAFF COLUMNIST

A wise man once said, "It's difficult to make predictions, especially about the future." But judging by the enormous volume of guesses made in the national print, merely making a prediction seems to take no effort at all. Bewilderingly, this election cycle has predictions that run the gamut from an imminent Romney victory, to a completely tied race, to a foregone conclusion for Obama, all made with straight faces by normally reasonable people.

Why the huge spread in the odds-making? The answer is that pundits are taking fundamentally different approaches to the poll numbers that have been observed over the past week. Here are the three major prevailing views on how to interpret the information we have.

The view of the mainstream media

The mainstream media benefits from saying it is a close race. And by just looking at the headline national poll figures, you'd be hard pressed to argue otherwise. The most recent polls from USA Today, CNN, and Politico show a tied race. Gallup and Rasmus-

sen have the race one point in Romney's favor, while NBC and ABC have it one point in Obama's favor. Pew has Obama up by 3 points, but most major national polls conducted in the past few days have put down the race as a dead heat, anyone's game.

The 24-hour news organizations have, for the most part, decided not to look this gift horse in the mouth. The standard newscast these past few days has been a simple three-

step: The anchor brings up the latest poll indicating the race is close, the discussion is kicked over to a red-and-blue shaded map of the United States where analysts jab at all the states that are conceivably in play (and Ohio twice for good measure) before sending it back to the anchor, who registers their amazement with all the state poking and reminds viewers to turn in Tuesday night for the best coverage of the most amazing election in the history of democracy.

National polls have it tied, it must be tied.

Conservative counterargument

Many conservatives think the national polls are underestimating their man. How can it be that in all of the national polls that show the race tied, Mitt Romney is leading among independents by double digits? They take issue with pollsters' subjective judgments on what distribution of party identification, race, age, and gender is likely to turn out on election day. If the make-up of the electorate on November 6th is really 41 percent Democrat, 30 percent Republican, and 29 percent Independent, then a tied race would make sense. But this distribution is backward-looking, conservatives argue, too influenced by the anomaly of 2008, where

Democrats benefited from a large enthusiasm gap. To conservatives, the likely voter model employed by most polling agencies is patently flawed when it gives Democrats an 11-point advantage in a country that has long tacked to the right nationally. To boot, conservatives see most undecideds breaking toward Romney; a majority of voters identify the economy as their number one issue and a similar majority cite Mitt Romney as the

man they trust most to handle the economy.

Romney is ahead among independents, he must be winning.

The liberal rebuff

Liberals agree with conservatives that the headline national numbers are too simplistic. But their claim is not that the likely voter models being used are wrong (if they are wrong, they're just as likely to over-estimate Romney as they would Obama). Instead, they call attention to the extensive state-by-state polling that should be brought in to complement national polls.

The inclusion of state polling highlights the difficult electoral path Mitt Romney has to walk. His most likely winning combination is taking Florida, Virginia, Colorado, and Ohio. If Obama takes a single one of these states, Romney's path to the presidency becomes almost impossible. Colorado could conceivably be replaced by Iowa or New Hampshire, but losing any of the other three would mean some large upset in Wisconsin or Pennsylvania would have to occur. Romney is already behind in the state polling across every one of these states with the exception of Florida (where he has a very slight lead), so it seems natural to give Obama 85 percent odds of winning the election, as Nate Silver, the election model runner for the New York Times, does.

This might suggest that the possibility of Romney winning the popular vote but losing the electoral vote is very large. But here we get to the real reason why the state polls are game changing: The state polls, in total, find Obama a favorite nationally. That is, if you took each of the state polls, weighted them by expected turnout in that state, and averaged them to get an estimate of the popular vote distribution, you wouldn't see a tie, you'd see Obama ahead by as much as three points. And in fact, the argument continues, this bootstrapped estimate of the national

picture is a more relevant one than that provided by the national polls, because the state polls, focusing as they do on battleground states, have greater accuracy where it matters most.

It is impossible to tell which view is correct, and I don't know who is going to win tonight. But I do know that this one is worth watching.

As for the conservative claim that the likely voter models being used are skewed, the response from liberals is simple: Pollsters are a lot smarter than they are being given credit for. They aren't just looking at 2008 and copy-pasting a turnout distribution — these are professionals who make these judgment calls for a living. And the reason Republicans are given less weight in their polling is because many conservatives, not fond of the GOP's brand, have switched identification from Republican to Independent. If they'd maintained their party identification, pollsters would give a higher weight to Republicans in their models. But then again, if that were the case, Romney wouldn't be leading among independents.

National polls have it tied, state polls have Obama ahead. Average the two, and Obama must be winning.

For what it's worth, on Intrade, an online prediction market where participants have staked tens of millions of dollars on the outcome of presidential election, Obama holds a stable 2-1 advantage over Romney.

It is impossible to tell which view is correct, and I don't know who is going to win tonight. But I do know that this one is worth watching.

OPINION OPINION OPINION OPINION OPINION OPINION OPINION OPINION OPINION OPINION

Did Lydia K.'s blog post resonate with you?

The Tech is running a survey about stress at MIT.

Send question ideas to surveys@tech.mit.edu.

Days of Demolition

Day 1

DAVID J. BERMEJO—THE TECH
 Day 1, Oct. 16. Photographs of 219 Vassar St. were taken over a week and a half period to showcase the gradual changes that took place during its demolition.



Day 2

DAVID J. BERMEJO—THE TECH
 Day 2, Oct. 17. This photo highlights the range of an HDR image. By combining three different exposures into a single image, all levels of detail, from the brightness of the setting sun and to the shadows inside the demolished building, were retained.

Day 5

DAVID J. BERMEJO—THE TECH
 Day 5, Oct. 20. Morning clouds roll over the demolition site.



Online Exclusive



Watch a video of the site demolition online!
<http://bit.ly/vassardemolition>
 VIDEO BY DAVID J. BERMEJO—THE TECH



Day 9

DAVID J. BERMEJO—THE TECH
 Day 9, Oct. 24. By the eighth day, most of the building had been demolished.

Day 11

DAVID J. BERMEJO—THE TECH
 Day 11, Oct. 26. Previously a place of much noise and destruction, the demolition site was cleared and quiet on the evening of the last day.



MIT Gangnam Style: gone viral



(Right to left) Ingwon Chae '14, Richard C. Yoon '13, and Eddie Ha '13, producer, star, and director, respectively, of the hit MIT Gangnam Style video, pose for a photoshoot at *The Tech*.

By Jessica J. Pourian
EDITOR IN CHIEF

After a couple tantalizing teasers, MIT students woke up on the morning of Oct. 27 to the full-fledged "MIT Gangnam Style" video taking the Internet by storm. Since then, the MIT parody of Korean popstar Psy's sensational "Gangnam Style" — which has skyrocketed to worldwide popularity — has garnered over 4 million views.

Directed by Eddie Ha '13, produced by Ingwon Chae '14, and starring Richard Yoon '13 as Psy, the video is MIT's take on Psy's "Gangnam Style." The original video was uploaded on July 15 and went viral near the end of the summer. As of press time, it has over 657 million views, making it the second most viewed video on YouTube, just after Justin Bieber's "Baby," with 796 million views.

References

A number of film references are included in the video. Did you catch them all?

Squid Girl

At 1:35: The Anime Club cosplays as three characters who are supposed to be from MIT.

Good Will Hunting

At 1:38: "The janitor looks at the ass-ymptote — no pun intended — on the chalkboard," and yells, said Chae.

21

At 1:38: The playing cards displayed when the janitor yells at the chalkboard are meant to reference 21.

Inception

At 4:16: The spinning Brass Rat at the end is meant to question whether or not the entire experience was a dream or not. "Spinning that ring took forever!" lamented Yoon. They wanted it to land with "MIT" facing the camera, and that scene took longer than any other to shoot, he said.

"In reality, it's not really a dream," Ha explained, "It's something for all MIT students. It's a party hard, work hard attitude we have."

The Institute's spin on the cultural phenomenon has hit the front page of YouTube and reddit, and has spawned comments from around the world. The film features a number of locations around campus, over 25 different student groups, and a few famous professors: Donald Sadoway, Eric Lander, and Noam Chomsky (see sidebar for a complete list of participants).

The beginning

Eddie Ha, a senior in Course 18 (Mathematics), came up with the idea for an MIT parody a little over seven weeks ago. Originally, the plan was to create a separate version of Gangnam Style, rewriting the lyrics to be nerdier. Once Ha saw other college parodies though, he changed his mind.

"We wanted to be the best parody out there," Ha grinned, "tell the world what goes on in here."

Ha, who is in the Korean Student Association (KSA), enlisted the group to help organize the parody.

"We wanted something that could encapsulate what MIT is as a college," added Chae.

The goal of the video was to have something that was a "good half mix of parody from the video, with an MIT twist to add something unique," said Ha.

The film stars Yoon as Psy. Yoon had been asked to be Psy for an Asian Dance Troupe performance (he is not in the group) and was roped into the film by Ha when they decided to make the video.

"This is absurd," Yoon laughed. "I was forced to be Psy. I had no choice."

Stars of the show

A few famous faces from around MIT appear throughout the song. Ha mentioned that they emailed over 20 different professors to see

who they could get in the video.

Stu Schmill '86, dean of admissions, has the first cameo. Yoon leans against his shoulder in the admissions office, parodying the sauna scene from the original video.

"I'm glad it wasn't in a steam bath," said Schmill. He is also shown dancing with Yoon near the end.

"I have heard from many people out there in the world — people I've not heard from in a long time — who have commented that they didn't realize I could dance quite like that," Schmill said of the feedback he's received.

The admissions department was instrumental in getting the video off the ground, Ha said. After the team reached out to Schmill, they were able to borrow cameras from the office. The support of the admissions office made it easier to get other folks around MIT involved, Ha explained.

Donald Sadoway, professor in Course 3 (Materials Science and Engineering), appears near the end of the video. He stumbles upon Yoon dancing in his office and politely asks him to leave. The scene was the professor's idea.

"I thought it was a terrific project," said Sadoway. "It was fun. I think the allure of this is that it's just really happy stuff, and who's going to object to that?"

At 1:42 into the video, Yoon is seen scribbling on a chalkboard in MIT's largest lecture hall, 26-100. A split second later, Course 7 (Biology) professor Eric Lander taps him on the shoulder and starts dancing. The two jump onto a table and continue their dance off.

"He had dance moves I'd never seen before," says Yoon of the experience.

After Ha approached Lander

Gangnam Style, Page 9



Richard Yoon stands in Killian Court before the flashmob on Oct. 21.



Richard C. Yoon '13 is filmed in the Main Group.



Ingwon Chae '14 poses with his horse head mask.

Gangnam Style, from Page 8

about appearing in the video, the professor invited them to crash the last two minutes of his 7.012 (Introductory Biology) class. "This was an instant yes for me," said Lander, of how he reacted when he was asked about being in the video.

Lander was meant to imitate the part of the yellow-suited man who appears in the original video. "I wiggled more than he did," Lander said of the character.

"We invited the whole class to come down but they didn't come down!" he continued. "They were shy." While the dancing started during class, Lander dismissed his students before jumping on the desk and continuing filming.

The jump was the professor's idea. "If you're going to do it, you might as well be all in," he explained.

Like Schmill, Lander received a number of messages after the video took off.

"The reaction afterwards was great," he said. People wrote in saying, "It's nice you can do human genetics, but boy if that ever doesn't work out, you can dance at least!"

Lander was delighted with the final video: "Superb piece of work, hats off to the student who make that and the extraordinary MIT spirit behind that."

But the overall highlight of the video? Everyone agrees.

Oppan Chomsky Style!

"The Chomsky bit is amazing," said Lander. "I LOVE IT!"

Noam Chomsky, famed linguist and MIT professor, makes a brief cameo at 3:19. He takes a sip of tea and calmly says "Oppan Chomsky Style."

This brief clip has attracted an incredible amount of attention for both Chomsky and MIT. *The Boston Globe* wrote a story about it last Wednesday, and in an email to *The Tech*, Chomsky said he'd "been deluged with mail about it."

Asked what he thought of being involved in the video, Chomsky wrote, "Quite honestly, I don't have much to say. Some kids came in and asked me to read some incomprehensible words. They seemed to be having fun, so I agreed."

The MIT take

Adding famous professors was not the only way the group tried to give Gangnam Style an MIT flavor. They asked a variety of student groups to join them, and the KSA helped in contacting nearly 40 groups for inclusion in the video. For each of the included groups, Ha, Chae, and Yoon tried to film in locations that best characterized them.

One of the features that makes the MIT version stand out among the dozens of other parodies is the spotlight on the Logarithms, MIT's all-male a cappella group.

"We wanted to make this special," said Ha. "I was thinking about all the groups at MIT, and I thought about the Logs. None of the parodies have an a cappella version."

Ha pitched the idea to his friend and president of the Logs, Nathaniel Kim '14, about a month ago. The Logs were on board immediately. "Neither of us wanted the Logs to sing the entire song," explained Kim. "It was a matter of which portion." As the only Korean member of the Logs, it's Kim's voice the viewer hears singing in Korean.

"We never got to really do anything solid about [preparation] until a week before we actually filmed it," he said. The Logs didn't have time to come up with a fully arranged version for the video, and rehearsed singing only briefly before recording.

They have just released a full studio version, which can be found at <http://mitlogs.com/gangnam/>.

Heewoo "Hailey" Kim '14, a junior in Course 3, plays HyunA. Kim is in the KSA, and Ha asked her if she wanted the part. "It was originally supposed to be longer," she explained, "and I was supposed to do a scene with Richard."



MIT Women's Soccer is filmed for the "Gangnam Style" video.

We just cut that out."

"I guess that was good," she laughed. "I would have done a really awkward scene with Richard."

To get the entire campus involved, the Gangnam Style team hosted an MIT-wide flashmob on Oct. 21.

"200 or 300 people showed up," said Eddie. "There were as many people watching as there were dancing."

Creating the video

Putting together the video was an enormous undertaking.

"We'd work a lot, and one weekend it'd drop off and we'd study," said Chae.

Chae estimated that they had over 1000 minutes of footage, though Ha said that "the editing process was not as long as I thought it would take. It took me about three, or four days."

Ha created the entire video using iMovie. His computer couldn't handle anything else, he said.

Going viral

Nobody expected "MIT Gangnam Style" to hit a million, let alone 4 million. The three had bets between them on how many tens of thousands of views they would get. Everyone was shocked.

"I've never been inside the storm that is a viral video," said Chae.

"We were all freaking out," added Yoon.

"On the very first day, we were screaming we had 50,000 views," said Ha.

"I can definitely say that I did not expect this video to become that viral. I thought it'll get a lot

of MIT attention, but then I guess that's it," said Nate Kim.

The video has exploded around the United States and throughout Asia. Alumni from around the world have written to the group in support.

"They've been helping us out," said Ha. "It's awesome to hear back from them."

Reflection

Asked what they would do differently, the three had varied responses.

"Add the football team in there," said Yoon.

"I was trying really hard to get President Reif," said Chae. "I really wish he would have been in the video."

"I wish I did this a little earlier," said Eddie.

A moment later, Yoon added, "I wish I hadn't rubbed my eyes with the

glove," saying that he'd received a number of comments about bad laboratory technique. Yoon is Course 2 (Mechanical Engineering). "I don't deal with chemicals that much."

Is MIT Gangnam Style done?

Chae hinted that it might not be. "We have a ton of extra footage. Be on the lookout — we might publish a behind-the-scenes."

"I'd like to thank the MIT community for supporting us, having fun with us, spreading the word for us," said Yoon.

For the latest updates on MIT Gangnam Style, check the Facebook page at <http://www.facebook.com/MIT.GangnamStyle>.

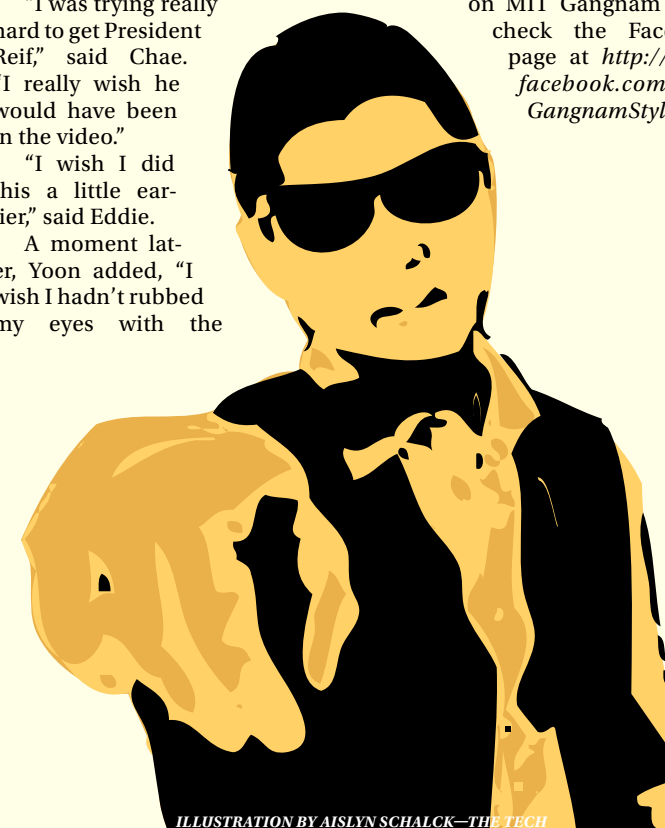


ILLUSTRATION BY AISLYN SCHALCK—THE TECH

Starring...

- MIT Game Lab
- MIT Tennis
- Freshman Leadership Program
- Korean Students Association
- Amphibious Achievement
- Sloan Business Club
- OrigaMIT
- MIT Pistol
- MIT Pole Vaulting
- Asian American Association
- MIT Women's Soccer
- MIT Swimming
- Anime Club
- MIT Cheerleading Squad
- Nu Delta
- Glass Lab
- Logarithms
- Dance Troupe
- Department of Urban Studies and Planning
- MIT Sailing
- Chinese Students' Club
- Quidditch Team
- MIT-EMS
- Lion Dance Club
- Freshman Urban Program
- South Asian American Students
- Phi Beta Epsilon
- Professor Noam Chomsky
- Professor Eric Lander
- Professor Donald Sadoway
- Stu Schmill, Dean of Admissions
- Tim the Beaver



(Right to left) Youngsoo Jang '15, Ingwon Chae '14, and Richard C. Yoon '13 take a break during filming.

MIT campaign contributions: \$283K+ for Obama

Campaign donations show MIT employees overwhelmingly in support of Obama

MIT contributions, from Page 1

anonymous, so it is possible that MIT faculty or staff made significant contributions that are not reflected here.

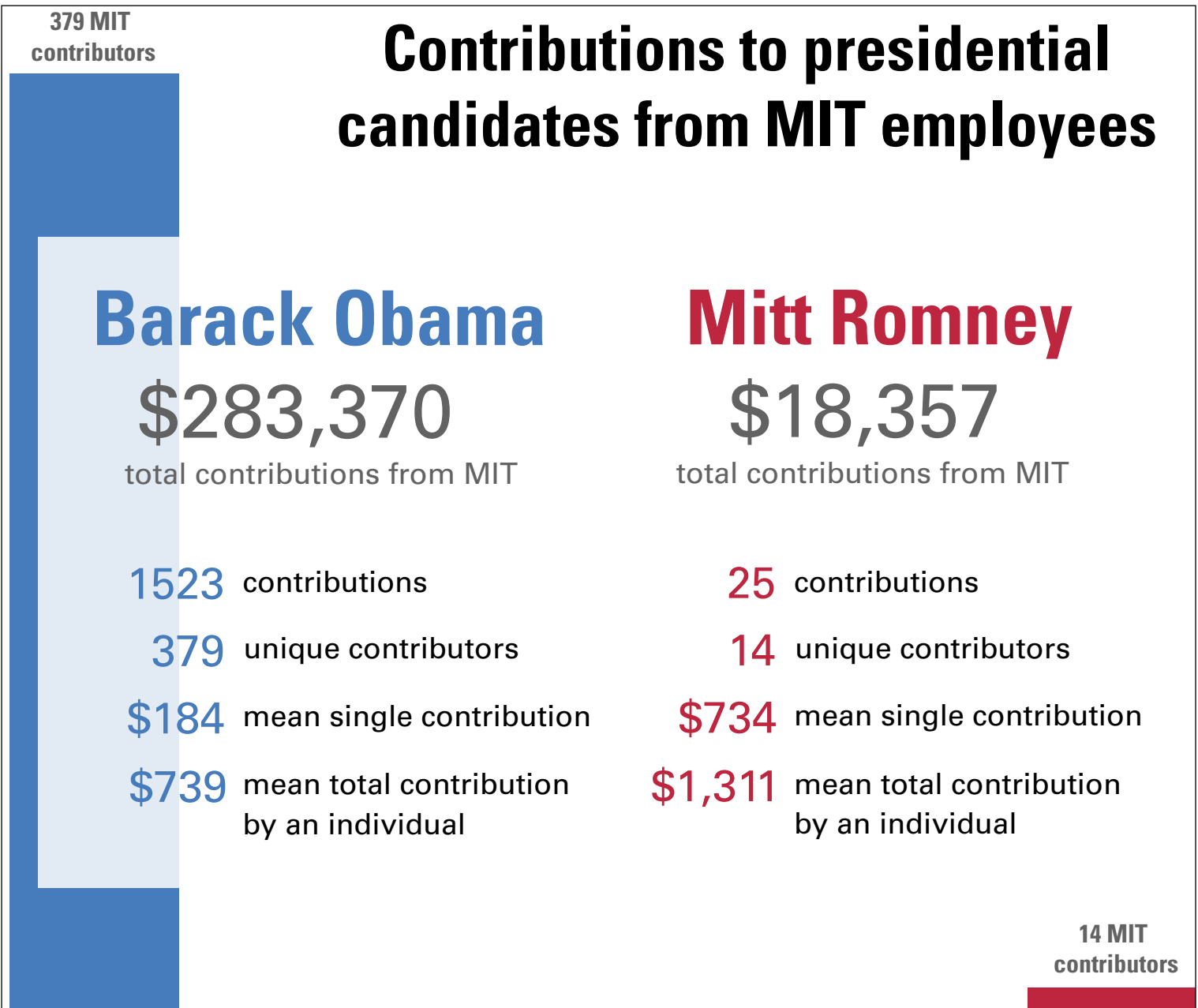
In 2008, MIT employees gave a total of \$664,000 to Barack Obama and John McCain, a figure which includes contributions to PACs (before super PACs could raise unlimited sums). Obama raised \$620,000 from MIT employees, 14 times more than given to McCain — a similar Democrat-Republican ratio to that of the current cycle.

Obama raised \$620,000 from MIT employees, 14 times more than given to McCain.

Harvard employees donated \$579,865 to Obama, not quite 10 times the amount they gave to Romney, \$60,636, according to *The Harvard Crimson*. Obama and Romney are both Harvard alumni.

Obama's campaign has raised \$637.3 million for this election, compared to \$388.1 million by Mitt Romney, according to *The New York Times*. But the major super PAC supporting Romney raised much more than a super PAC for Obama — \$131.6 million to 63.7 million, respectively.

Ethan Solomon, John Hawkison, and Joanna Kao contributed reporting.



College Students

20% OFF

All full-price EMS® brand items

15% OFF

All full-price national brand items

Must show valid college ID. Exclusions may apply; visit store for details.

Eastern Mountain Sports EMS HARVARD SQUARE



It all starts here.

EASTERN MOUNTAIN SPORTS®

Harvard Square 1 Brattle Square, Second Floor

ems.com

Be a different kind of **ENGineer**

Be an **E**lectronic
News
Gatherer

The Tech is looking for enthusiastic students to join our new video team.

We're looking for:

- Video editors
- Broadcast reporters
- Videographers



No experience necessary.

Email join@tech.mit.edu

SMBC, from Page 12



Solution to Techdoku I

from page 14

2	3	4	1	5	6
5	6	1	4	2	3
4	5	6	3	1	2
6	1	2	5	3	4
1	2	3	6	4	5
3	4	5	2	6	1

Low awareness of MIT corporate recruiting rules

Companies don't always follow recruiting rules; students not always aware of them

Recruiting, from Page 1

"Adobe wanted me to have my final interview on Monday and Tuesday of a week," said an anonymous junior. "When I said I couldn't because I had classes, but was happy to reschedule to another date, they dropped me from the process."

While many of these recruiting policies work to make the interview process as easy as possible, it is up the students and companies to enforce them.

Amanda C. David '13, a Course 15 major who has interviewed with consulting companies such as Bain & Co., Boston Consulting Group, and McKinsey & Co., states that interviews take up almost as much time as another class. David has skipped a number of her Thursday and Friday classes for on-site interviews and to prepare for first-round

interviews.

"The companies usually don't give any alternative dates for scheduling second-round interviews," said David, adding that she was unaware of many of these restrictions on interview scheduling set by the Careers Office.

"It's natural that students may not bring these policies up with their potential employer," Joshua Ma '14, a Course 6 major who has interviewed at more than 12 tech companies such as Google, Twitter, and Facebook. "If I were a freshman or sophomore, I may be afraid to offend a company."

Repercussions for not abiding by these policies may include the company not being able to continue recruiting on campus or having deferred interview dates. As stated in the Careers Office website, "It must be clearly communicated to the student at all times that they should feel comfortable speaking up about any scheduling conflicts." While many of these recruiting policies work to make the interview process as easy as possible, it is up the students and companies to enforce them.

"We only intervene in the situation upon the student's request," said Liverman.



EMILY KELLISON-LINN—THE TECH

Erik A. Waingarten '15 and interviewer Joseph Falvella of Chrysler read interview tips posted on the wall of the MIT Global Education & Career Development Office while waiting for their appointments. GECD provides 22 interview cubicles that employers can rent to conduct on-campus job interviews with students.

Ian S. Cinnamon '13, who has interviewed with companies such as Microsoft, Zynga, and Yahoo, believes that the Careers Office should do more to raise awareness of these issues to both companies and students. Both Liverman and Menghi

have worked to make sure a list of Careers Office policies are located in designated interview rooms, as well as displayed on screens around MIT campus. Despite this, a number of companies and students may continue to be unaware of all the

policies. A full list of policies on corporate recruiting is available at <http://gecd.mit.edu/employers/plan/policies>. The Careers Office is located in 12-170, with hours from 9 a.m. to 5 p.m.

Royal Bengal
 Boston's only authentic Bengali Cuisine restaurant

313 Mass. Ave., Cambridge (617) 491-1988
 T: Red Line, Bus #1 - Central Square

Open Daily Except Monday
 11:30 am - 11:30 pm
 Lunch Buffet \$7.95
 Reasonably Priced Dinners

10% Discount on \$15 (or more) order with MIT ID.

Free delivery for orders over \$10.
 Take-out, platters, and catering available.
<http://www.royalbengalrestaurant.com/>

SPERM DONORS

Earn up to **\$1200** per month

Invest minimal time
 Make a real difference in the lives of families
 Receive free health and genetic screenings

APPLY ONLINE:
SPERMBANK.com
 - convenient Cambridge location

Software Developers, Come Meet the Cloudant Team!

Cloudant is revolutionizing web & mobile app development with its distributed database as a service.
 Founded by MIT Alumni.
 Funded by Y Combinator, Avalon, & In-Q-Tel.

Our platform: CouchDB, Erlang, Python, HAProxy, Graphite, Chef, Jenkins, git /GitHub, Debian Linux, NoSQL, Ruby, Javascript, etc.

Thursday November 8
5:30 PM - 7:00 PM Room 5-233
Pizza & soda will be provided

 **CLOUDANT**

CUSTOM PRINTED & EMBROIDERED T-SHIRTS
SWEATSHIRTS - POLOS - HATS & MORE!

ph - 617-625-3335
 email - info@qrsts.com
www.qrst.com
 Somerville, MA


 Printing - Embroidery and More...
 part of R.A.W. (Rinnigade Art Works)

Are you a grammar ninja?
The Tech needs copy editors

supposed to say
GRAMMAR



Help us out.
 (We need it)
 email join@tech.mit.edu

Solution to Crossword
 from page 13

H	O	B	O	L	A	Y	U	P	R	I	D	S			
A	R	E	A	A	M	A	N	A	A	R	I	A			
L	E	A	S	T	O	X	I	N	I	S	N	T			
L	O	U	I	S	V	U	I	T	T	O	N				
		S	P	I	N	S			W	E	L	T			
L	E	S		R	A	T		P	A	N	D	O	R	A	
O	N	C	U	E		C	O	N		O	L	A			
G	R	A	P	E	F	R	U	I	T	J	U	I	C	E	
J	I	L	T		O	U	R		O	T	T	E	R		
A	C	P	O	W	E	R		S	O	N		A	D	S	
M	O	S	S			B	O	R	E	D					
				P	E	N	G	U	I	N	S	U	I	T	S
B	I	D	E		A	R	I	S	E		E	M	I	T	
B	O	N	E		N	I	C	E	R		L	O	R	E	
Q	U	A	D		O	N	K	E	Y		S	K	E	W	

Solution to Sudoku
 from page 14

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

Solution to Techdoku II
 from page 14

3	4	2	5	1	6
2	3	1	4	6	5
4	5	3	6	2	1
1	2	6	3	5	4
5	6	4	1	3	2
6	1	5	2	4	3

Sudoku

Solution, page 10

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

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 11

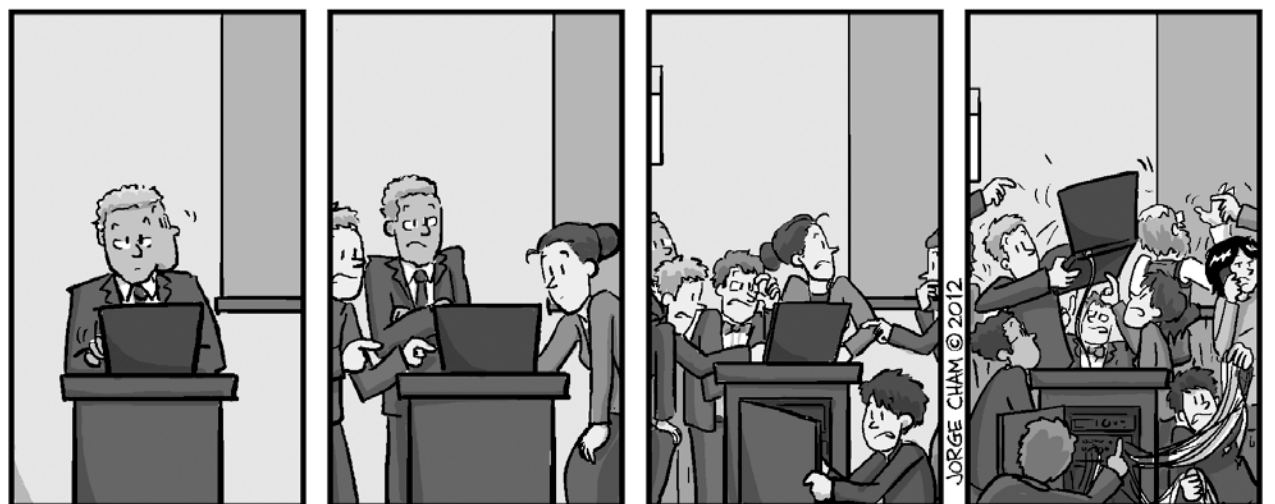
144x			30x		6
		5+			5
120x			1÷		1
		6		2-	4
120x			2x		2
6		5		1-	

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

Q: HOW MANY PH.D.'S DOES IT TAKE TO GET A POWERPOINT PRESENTATION TO WORK?



by Jorge Cham



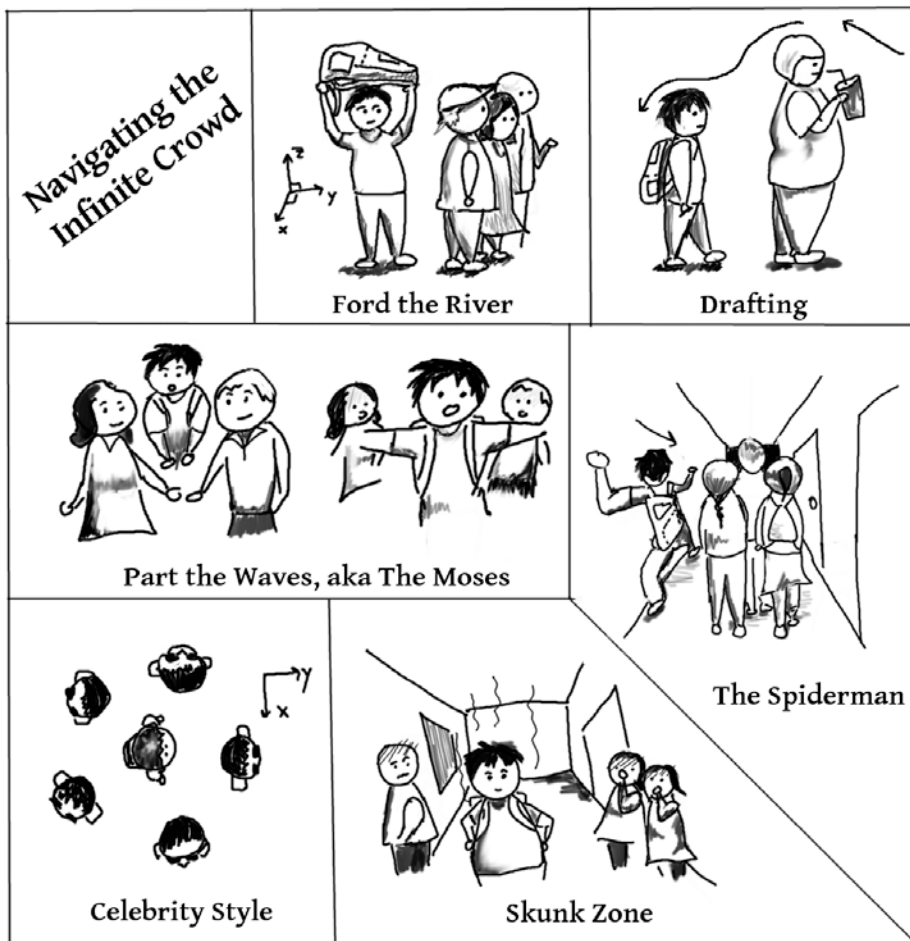
WWW.PHDCOMICS.COM

ANSWER: (n+1)

WHERE n = THE NUMBER OF ACADEMICS IN THE ROOM WHO THINK THEY KNOW HOW TO FIX IT, AND 1 = THE PERSON WHO FINALLY CALLS THE A/V TECHNICIAN.

Beaver Tails

by Ranbel Sun



Techdoku II

Solution, page 10

20+			20x		6
		6x		6+	
120x			8+		2
	2x			240x	
2x		90x			
12x			12x		

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

THE SECRET LIVES OF RESEARCHERS

Studying the motion in the ocean

An oceanography research trip to Admiralty Inlet is fueled by a sea of caffeine

By Anna Wargula

The ship's engine roared to life at 2:30 a.m. and jolted me out of semi-consciousness. My head throbbed — in my dreams I hadn't stopped cycling through the next day's research plan, albeit in a strange, nightmarish way. I opened the curtain of my berth and took in my surroundings: the sounds of snoring shipmates — at least someone was getting extra sleep — the sight of my field notebook perched on top of the laptop with which I had spent my weekend synchronizing instruments, and the smell of coffee, coffee, coffee. Nightmare forgotten, reality filled me with eager anticipation.

I am a graduate student in the MIT Joint Program with Woods Hole Oceanographic Institution, and an aspiring coastal physical oceanographer. I am excited about waves, fieldwork, and understanding the effect of coastal physics on water quality and current patterns. This summer, I had the opportunity to act as co-chief scientist during a two-day research cruise in Puget Sound, WA, through a coastal fluid dynamics course at the University of Washington Friday Harbor Laboratory.

Coastal physical oceanography research includes the study of fluid dynamical, meteorological, and other physical forces affecting the transport, mixing, and dispersion

of mass, momentum, energy, sediments, marine organisms, and pollutants. My mission in Admiralty Inlet, the main shipping channel of Puget Sound, was to investigate how the estuary manages to remain so tenaciously stratified in layers of density, despite intense turbulent mixing due to strong tidal currents. This persistent stratification could

I still marvel that no one yelled mutiny and tossed me overboard after I announced a 3:30 a.m. departure to catch the first slack tide of the day at 4:30 a.m.

contribute to issues in the estuary, such as oxygen depletion, called hypoxia, which can lead to a devastating decrease in biodiversity in the region through fish kills and other events.

Once we had studied up on Admiralty Inlet, we consulted the moon and the sun for guidance on our fieldwork plans. Either we coastal oceanography researchers are all secretly astrologers or tides affect almost everything we study — you decide. Especially strong tidal currents were expected during our two days of ship time, due to the summer solstice. I was interested in measuring vertical profiles of density along the length of the

inlet channel. This meant casting a conductivity (a measure of salinity), temperature, and depth (CTD) sensor over the side of the ship on a long wire to a maximum depth of about 100 meters. In 3-meter-per-second tidal currents, having a long wire hanging over the side of a 58-foot ship is not the most stable setup. Sure, I wanted to see how the stratification changed as the salty ocean water flooded into the fresher waters of Puget Sound. However, keeping the crew safe is more important, so density profile measurements were confined to times around slack tide, when the currents were weakest.

I still marvel that no one yelled mutiny and tossed me overboard after I announced a 3:30 a.m. departure to catch the first slack tide of the day at 4:30 a.m. They were either a very gracious bunch, or just a little bit crazy about oceanographic fieldwork, too. Or perhaps we were all resigned to the job because the ship carried coffee. Lots of coffee. As I had prepared for the cruise, programing

instruments, changing batteries, and deciphering the tangle of wires by the ship's head, someone had made sure the ship was supplied with plenty of coffee. Thanks, someone.

Between slack tides, we swiveled a 2-meter-long pole with a current profiler into the water and steered the ship back and forth across the inlet, measuring vertical profiles of velocity. My teammate used this information to examine energy fluxes, as Admiralty Inlet is considered an ideal site for tidal-powered renewable energy. We also practiced essential oceanographers' skills on deck, such as jumping rope on a moving platform, grilling delicious shish kebabs without burning up the ship, identifying surface expressions of cool physics on the water, solving differential equations, and spotting porpoises, seabirds and distant fireworks.

Apollo 8 astronaut William Anders once said, "We came all this way to explore the moon, and the most important thing is that we discovered the Earth." In the sweet moment when I touched solid earth once again after a 22-hour workday at sea, I couldn't have agreed more. During the past several months of sharing these experiences and describing the science I learned at Admiralty Inlet to friends and family, one of the most rewarding aspects of my work has been helping others discover the Earth, too.

FROM CAMBRIDGE TO CAMBRIDGE

The aftermath of Hurricane Sandy

After the passing of the storm, the MIT community reacts to the damage

By Mark Alexander Salmon

Despite the 96 U.S. deaths during Sandy's destructive course along the East Coast and the 69 killed as it swept across the Caribbean, Hurricane Sandy did very little to affect Boston in comparison to New York and Atlantic City. Since the storm avoided us and swung inland through New York and north into Canada, it is easy to forget the implications it had on our community. Nevertheless, MIT was both affected by the hurricane and is helping the recovery from the aftermath.

Obviously, the MIT campus did not experience anything like the havoc wreaked upon the towns and cities further south. This was my first hurricane, and I was genuinely expecting full tree-destroying winds and monsoon-like rain. I was almost disappointed by what I actually experienced. I've seen worse, if perhaps not for such a sustained period of time, back home in the United Kingdom, home of the perpetual drizzle. However, I must admit to feeling a bit relieved at the lack of severity, as I would not wish the destruction that happened elsewhere on anyone.

Even I ventured out to Trader Joe's to pick up some emergency cereal.

Despite the lack of a direct hurricane hit, even the small possibility of damage caused action to be taken. MIT cancelled classes and told students and non-essential staff to stay at home, as did most of the other schools in the Boston area. This was a very rare occurrence for the Institute — the last time MIT was closed by inclement weather was winter two years ago.

As reported in last Tuesday's edition of *The Tech*, preparations were made to mitigate the risk of flooding. Large quantities of food were ordered by all the dorms and the food outlets in the Student Center. Even I ventured out to Trader Joe's to pick up some emergency cereal.

The measures MIT took also extended beyond the MIT community; the deadline for early admissions was made "flexible"

to compensate for the inevitable delays that will affect a large number of prospective students. Last year approximately 6,000 students applied early, an indication of the number of students that might be impacted. However, the office won't rigorously check whether delayed applicants were affected by the storm. Dean of Admissions Stu Schmill told *The Boston Globe*, "Generally speaking, students are not going to over-abuse this, and we are going to trust that anyone who used the flexible deadline really needed it." In fact, he also said that this was not as big a change in approach as most domestic students might think, as weather-related deadline extensions are commonly afforded to applicants from other countries where inclement weather is a more regular occurrence.

Another interesting consequence of Hurricane Sandy is the formation of the "Hurricane Hackers." In the wake of the storm, this group of MIT programmers came together to come up with recovery solutions to aid the relief effort in other parts of the country. They started by brainstorming and gathering information on a shared Google Drive document before proceeding to put together a timeline of key events in the hurricane's progress. They also wrote software to remove the effects of Instagram on the huge numbers of photos uploaded to Facebook, to make them usable in analyzing the state of buildings, and created the "SandyList" app to connect those in need to those who have what's needed. In fact, they are still active and seeking more members.

In light of the continued fallout from the hurricane, with the U.S. Department of Energy's Office of Electricity Delivery and Energy Reliability stating that 32 percent of people in New Jersey and nearly a million in New York remain without power, I find it both inspiring to see action being taken and interesting to note the way it is happening. Despite the small direct impact of the storm on the MIT community, certain members are using their strengths help the relief effort over the whole affected area. If this attitude spreads to the wider community, as I hope it will, the recovery after Sandy can only be hastened.

The Hurricane Hackers can be contacted via @HurricaneHackers on Twitter or hurricanehackers@mit.edu.

EVENTS

NOV. 06 – NOV. 12

TUESDAY

(6:00 p.m.) Election Night Party, 21+ — Thirsty Ear Pub

WEDNESDAY

(12:00 p.m. – 1:30 p.m.) Civil Wars, 1800-2012 — E40-496

(6:00 p.m. – 9:00 p.m.) Dialogue with Dr. Hutter — 4-237

THURSDAY

(11:00 p.m. – 12:00 p.m.) The Scientific Conversation and the Vail Collection: Gallery Talk & Tour — 14N-130

(7:15 p.m.) Forbidden Archeology talk on origins of humans — Student Center PDR 1, PDR 2

FRIDAY

(7:00 p.m.) LSC shows *The Dark Knight Rises* — 26-100

(8:00 p.m.) Roadkill Buffet improv comedy show — 6-120

SATURDAY

(12:00 p.m. – 3:00 p.m.) Kopitiam! 2012 Singaporean food feast — Sydney-Pacific Multipurpose Room

(2:00 p.m. – 4:00 p.m.) Snooty Anime Discussion Hours — Student Center PDR 3

SUNDAY

(6:30 p.m. – 9:30 p.m.) Diwali Night — Kresge Auditorium

(8:00 p.m. – 11:00 p.m.) International Folk Dancing with live music from the Cambridge Folk Orchestra — Student Center 491

Send your campus events to events@tech.mit.edu.

Got Something to Say?



Now you can!
Introducing **comments**
on *The Tech's* website
Make your voice heard

