

Results of sexual assault and misconduct survey released

Survey reveals that 7.2 percent of MIT students have experienced nonconsensual sexual contact

By Kerri Lu
STAFF REPORTER

MIT's results from the Spring 2019 Association of American Universities (AAU) Campus Climate Survey on Sexual Assault and Misconduct were released in an email from President L. Rafael Reif and Chancellor Cynthia Barnhart PhD '88 to the MIT community Tuesday.

The survey, conducted at 33 universities, contained questions on topics ranging from student experiences of sexual assault to knowledge of campus resources for sexual misconduct prevention and response.

At MIT, 1,943 undergraduates and 2,399 graduate students participated in the survey, yielding an overall response rate of 39.6 percent. Women undergraduates had the highest response rate among all students of 52 percent.

According to the survey, 7.2 percent of MIT students have experienced nonconsensual sexual contact by physical force or inability to consent. This includes 18.4 percent of undergraduate women, 13.9 per-

cent of non-heterosexual students, 11.9 percent of transgender, genderqueer, or nonbinary (TGQN) students, 8.3 percent of graduate women, 6.5 percent of undergraduate men, and 1.4 percent of graduate men.

These rates were slightly lower than the AAU nationwide averages. Thirteen percent of all students in universities participating in the survey experienced nonconsensual sexual contact, with rates of 25.9 percent for undergraduate women, 11.9 percent for TGQN students, and 9.6 percent for graduate women.

In an interview with *The Tech*, Barnhart said, "The rates that we cite for MIT are lower than those for the AAU aggregate schools. But we want to make sure that as we're talking about this, we send the message that the rates at MIT are still very concerning. We have a problem."

The survey found that one in six MIT students experienced sexual harassment, and that 70 percent of this group were women. One in three TGQN students at MIT experienced sexual harassment.

Seventy-nine percent of MIT students responded that it is very likely that campus officials would take a report of sexual assault seriously, and 61 percent responded that it is very likely that campus officials would conduct a fair investigation of reported sexual assault. There was a statistically significant difference between the responses for women and men: 84.2 percent of undergraduate men indicated that campus officials would take a report of sexual assault seriously, compared to 68.4 percent of undergraduate women.

Only 33.1 percent of students reported they were very knowledgeable about how MIT defines sexual assault. 41.4 percent reported they were very knowledgeable about where victims of sexual misconduct can find help. 92.3 percent of incoming students and 83.7 percent of returning students reported that they had completed at least one training about sexual misconduct.

Two in three MIT students reported that they are aware of MIT's

Survey, Page 2



ETHAN SIT—THE TECH

Cellist Valerie Chen '22 performs with a pencil as part of Thursday's performance of *The Heart is a Bell*, presented by Iva Bittová and the MIT Symphony Orchestra.

IN SHORT

Monday, Oct. 21 marks the **start of classes** offered in second half of term.

The next **flu shot clinic** is on Oct. 21 from 2 p.m. to 6 p.m. at the Stratton Student Center.

Family weekend runs Oct. 25–26.

Interested in **joining** *The Tech*? Stop by for dinner Sunday at 6 p.m. or email join@tech.mit.edu.

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

Two MIT economists win Nobel Memorial Prize in Economics

Profs. recognized for their work in development economics

By Kristina Chen
ASSOCIATE NEWS EDITOR

MIT economics professors Abhijit Banerjee and Esther Duflo PhD '99 were awarded the 2019 Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel on Monday for their work on anti-poverty research. Harvard economist Michael Kremer is a co-winner of the prize.

Duflo, at 46, is the youngest person and the second woman to have

ever won the Nobel Memorial Prize in Economic Sciences.

According to a press release from the Royal Swedish Academy of Sciences, "the research conducted by this year's Laureates has considerably improved our ability to fight global poverty. In just two decades, their new experiment-based approach has transformed development economics."

The work done by Banerjee, Duflo, and Kremer involves using ran-

domized controlled trials to examine the effects of small interventions in improving global issues, such as child healthcare and education, in developing countries. Their research uses empirical data to discover causal relationships that can be applied to alleviate global poverty.

Duflo is the Abdul Latif Jameel professor of poverty alleviation and development economics and Baner-

Nobel Prize, Page 8

Commencement to remain the same

Potential changes being considered for class of 2021 and beyond

By Rujul Gandhi
NEWS EDITOR

The Commencement and Doctoral ceremonies for the class of 2020 will remain the same as those of previous years, Executive Officer for Commencement Gayle Gallagher announced in an email to the MIT community Oct. 11. Potential changes are still being considered for the class of 2021 and beyond.

According to Gallagher's email, the Academic Council made the decision to keep Commencement the same for the class of 2020. Under this structure, all degrees will be award-

ed on Killian Court. Doctoral degree candidates will receive diplomas on Thursday, May 28 while bachelor's and master's degrees will be awarded on Friday, May 29.

Gallagher wrote that a committee comprising students, staff, and faculty will "develop plans for a meaningful and celebratory Killian Court experience for all graduates" with Commencement 2021 in mind. The committee will be led by Professor James Poterba.

Undergraduate Association President Mahi Elango '20 wrote in an email to *The Tech* that the UA had "several meetings with Chancellor's

Office and the GSC" to represent undergraduate opinion.

Elango wrote that 84 percent of respondents in a survey sent out to all undergraduates "did not prefer the proposed changes ... to the current structure." The "OneMIT + Schools" structure of Commencement proposed a ceremony for the whole class in Killian court, followed by degree conferral at locations separated by department or school.

President of the Graduate Student Council Peter Su G wrote in an email to *The Tech* that although the

Commencement, Page 8

THE CASE FOR DIVESTMENT

Engaging with fossil fuel companies is a failed strategy.

OPINION, p. 5

MENTAL HEALTH AT MIT

Dean for Graduate Education and Vice Chancellor respond. **OPINION**, p. 4

NAVIGATING CITIES:

Using data to understand urban interactions. **SCIENCE**, p. 7



LOOT YOUR HEART OUT

Borderlands 3 brings adventure back.

ARTS, p. 6

THE BREAK-THROUGH

Nobel Laureate Jim Allison fights cancer.

ARTS, p. 6

SECTIONS

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WEATHER

New England is feeling like... New England!

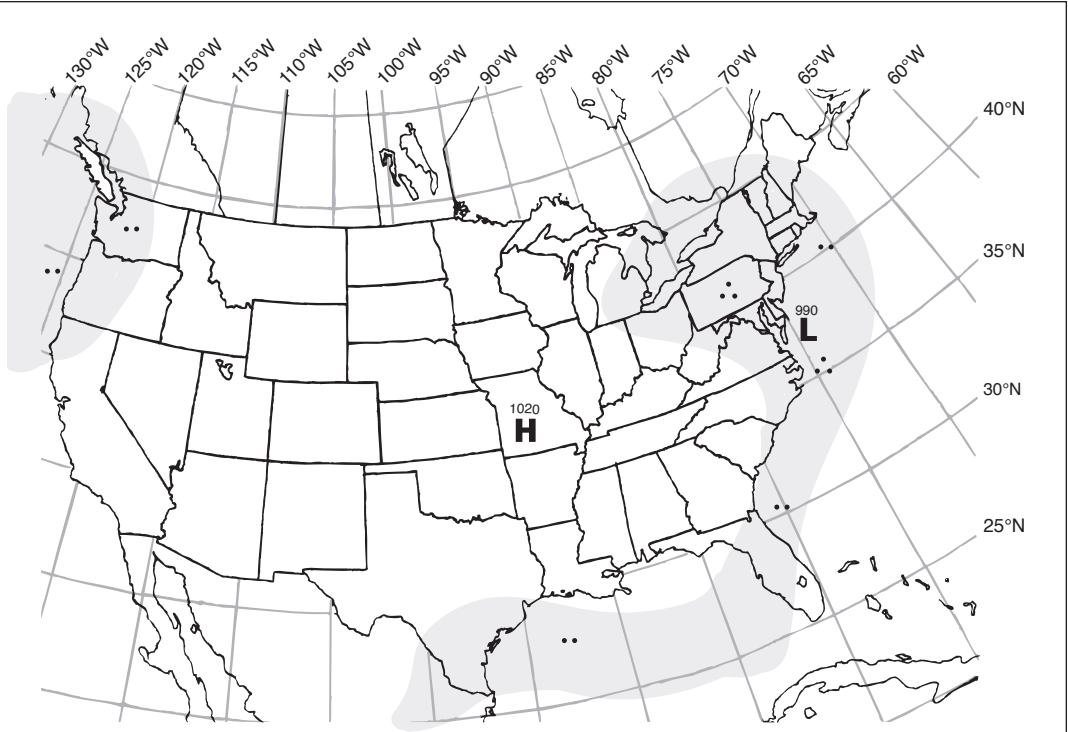
By Kyle Morgenstein
STAFF METEOROLOGIST

After a beautiful weekend for fall break, New England is back to her old tricks. The remainder of this week and the better part of the weekend will be marked by scattered storms, blustering winds, and temperatures ranging from the upper 40s to upper 50s, with maybe a few hours of low 60s warmth on Sunday. The storm system working its way through New

England should pass by Monday though, opening up a bright new week with some much-needed sun! The Pacific Northwest is also receiving her fair share of rain, typical for this time of year. The rest of the country is surprisingly dry this weekend, with some cloud cover over the Rockies but an otherwise sunny fall weekend. It almost makes you question if there's something spooky to come... Stay tuned!

Extended Forecast

Today: Scattered showers. High of 56 °F (13 °C) with strong northeast winds up to 30 mph.
Tonight: Scattered showers will continue into the evening, with a low of 47 °F (8 °C). Winds will subdue to 15 mph.
Tomorrow: Scattered showers in the morning, but clear for most of the day. High of 59 °F (15 °C) and a low of 42 °F (6 °C) with southeast winds of 15 mph.
Saturday: Sunny with a high of 61 °F (16 °C) and a low of 42 °F (6 °C).
Sunday: Partly cloudy. High around 61 °F (17 °C) and a low around 48 °F (9 °C).



Situation for Noon Eastern Time, Thursday, October 17, 2019

Weather Systems		Weather Fronts		Precipitation Symbols		Other Symbols	
H	High Pressure	- - -	Trough	Snow	*	☁	Fog
L	Low Pressure	—▲—	Warm Front	Rain	•	⚡	Thunderstorm
§	Hurricane	▲▲▲	Cold Front	Light	*	∞	Haze
		▲▲▲▲	Stationary Front	Moderate	**		
		—▲—▲		Heavy	***		

Compiled by MIT Meteorology Staff and The Tech

Barnhart to hold forums on sexual misconduct prevention and response

Survey, from Page 1

Violence Prevention and Response (VPR) and Title IX and Bias Response (T9BR) offices as resources for victims of sexual assault. The greatest percentages of respondents were aware of MIT Medical (94 percent), MIT Police (86 percent), and MIT Student Mental Health and Counseling Services (81 percent). In response to the survey results, Barnhart is organizing a series of community forums on sexual misconduct prevention and response. The first forum will be held at 4 p.m. on Tuesday, Nov. 5 in 10-250.

During the forum, four working groups (Leadership and Engagement, Training and Prevention, Policies and Reporting, and Academic and Organizational Relationships) will present recommendations and collect community feedback in response to the 2018 National Academies Report on the Sexual Harassment of Women in Science, Engineering and Medicine. Barnhart plans to expand ongoing sexual misconduct education for students and employees. “We have to provide education that touches the whole community. We’ve moved from requiring incoming first years to take sexual

assault online training to requiring that all members of our community do that. For the next step, we need to be more systematic and comprehensive with increasing education efforts, especially in-person training,” Barnhart told *The Tech*. For that purpose, new staff will be hired in VPR, T9BR, and Student Mental Health and Counseling Services. Within T9BR, a new Institute Discrimination and Harassment Response Office (IDHR) will be launched next semester. IDHR will implement a new policy for complaints of sexual misconduct against faculty and staff, including commissioning professional inves-

tigators for neutral fact-finding and increased transparency about aggregate outcomes. In Spring 2014, Barnhart developed and administered a campus-wide survey to measure MIT community attitudes on sexual assault. According to Reif’s email, this was “the first [survey] of its kind in US higher education.” In 2014, 35 percent of female undergraduates, 16 percent of female graduate students, and 14 percent of male undergraduates at MIT reported experiencing sexual harassment or assault. Barnhart said that because MIT did not participate in the 2015

AAU survey, it is difficult to directly compare the change in prevalence of sexual misconduct at MIT over time. The nationwide aggregate survey results show that the rate of nonconsensual sexual contact increased from 2015 to 2019 by 3 percent for undergraduate women, 2.4 percent for graduate women, and 1.4 percent for undergraduate men. “One interpretation of these results is that many of the efforts [to reduce sexual misconduct] weren’t so effective. But some experts say that increased awareness is in part contributing to those numbers increasing because people can name the experience now,” Barnhart said.

Annual Security and Fire Safety Report released

The MIT Police Department released its Annual Security and Fire Safety Report Oct. 9. The report includes information about the Police Department’s operations, services, and resources, along with statistics regarding criminal and Violence Against Women Act (VAWA) offenses, arrests and disciplinary referrals, hate crimes, and fire safety, from 2016 to 2018. The total number of criminal offenses grew from 63 in 2016 to 92 in 2018. Contributing to this change was the increase in reports of bur-

glary from 25 to 45 and the increase in reports of rape from 13 to 22. Inversely, reports of aggravated assault decreased from seven to three. VAWA offenses also increased from 28 to 33 cases over the two years. While there was a decrease in reports of domestic violence from 13 to eight, stalking reports increased from eight in 2016 to 14 in 2017 to 18 in 2018. Dating violence offenses fell from seven to three from 2016 to 2017 but rose to seven again in 2018.

The majority of cases of rape, domestic violence, and dating violence occurred in campus residence halls. The report also lists on and off-campus resources for survivors of sexual assault, defines consent, and describes safety and reporting procedures to follow in the event of sexual assault. For arrests and disciplinary referrals, there was a decrease from 2016 to 2018, with liquor law violations falling from 77 to 31 cases. In addition, drug abuse violations decreased from 11 to one from 2017 to

2018, and there were no weapons violations recorded in 2018. No hate crime related to disability, ethnicity, gender, gender identity, race, national origin, religion, or sexual orientation was reported in 2017 and 2018. The report also includes data on on-campus fires, which have decreased from three in 2017 to one in 2018. Crime reports can be made to the MIT Police at (617)-253-1212 or anonymously at (617)-258-8477. —Kristina Chen

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Alicja Kwade

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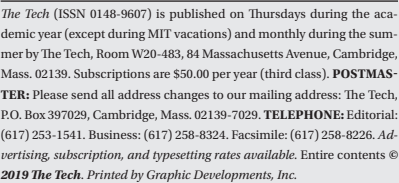
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Against the Run, 2019. Photo: Tim Lloyd © Alicja Kwade

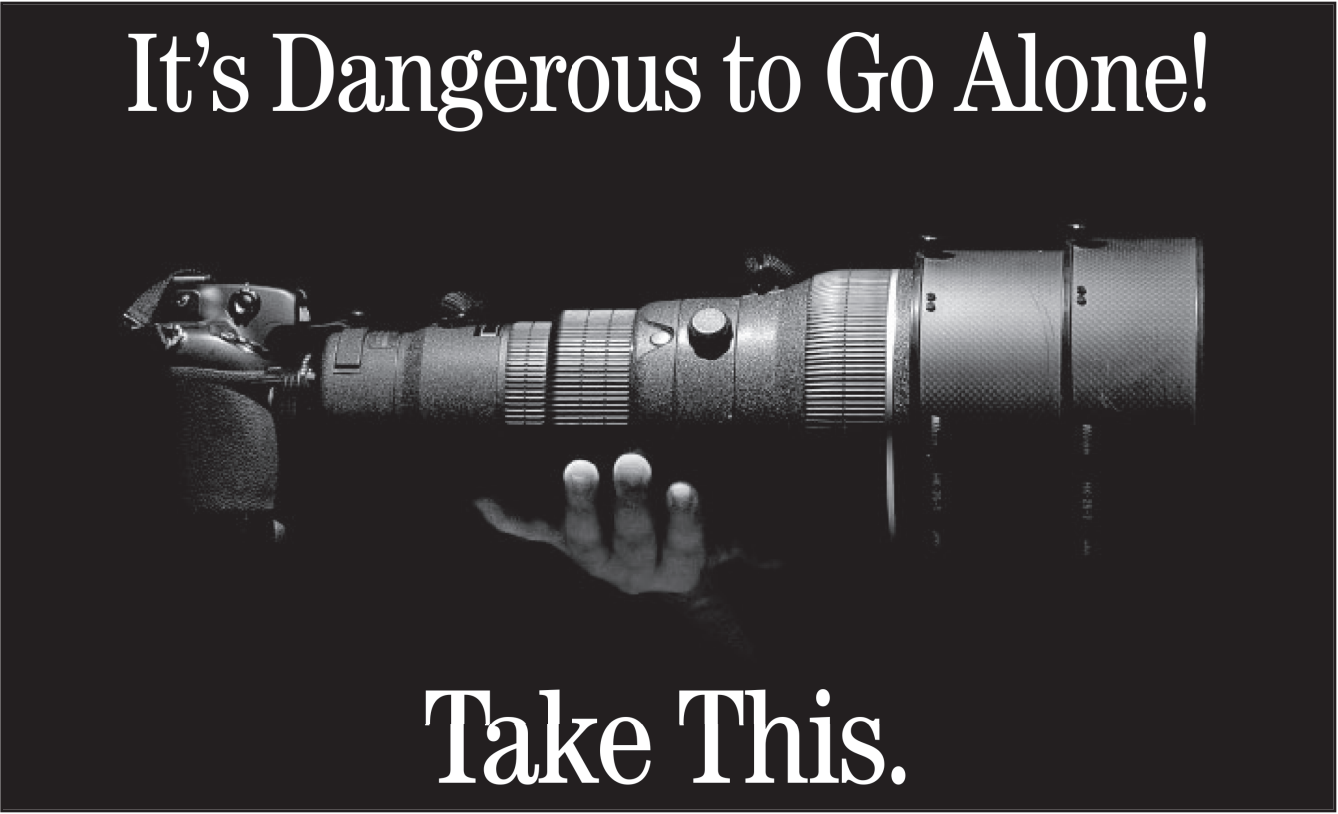
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*Ian A. Waitz, Vice Chancellor for
Undergraduate and Graduate Education*



Jim Allison and T-cells finally break through to the spotlight

By Liane Xu

The documentary follows Allison's arduous path from his childhood in Alice, Texas to his Nobel Prize last year. It employs a common framing device: displaying footage of the Nobel Prize ceremony early on before taking it back and following a generally chronological sequence.

Among other things, director Bill Haney weaves intriguing personal aspects in with the science, which effectively enhances his unique multidimensional portrait of Jim Allison. First of all, the film opens with Allison playing the harmonica, an instrument that makes several reappearances, including one with Willie Nelson. We also learn about his personal connection to his research: his mother, two of his uncles, and his brother died from cancer. In an-



Jim Allison in Bill Haney's *Breakthrough*.

Overall, Haney plays a bit of hopscotch, but in the end, he adequately paints a picture of who Jim Allison is: hard-headed, creative, passionate, and most importantly, someone

who values rigorous scientific experiments over convention and assumptions. It's an important and timeless lesson because we still need more pioneers like Allison: immuno-oncology doesn't work for everyone. T-cells were discovered while Allison was in college; who knows if something discovered today will be the next breakthrough?

Shoot, loot, repeat

By Matt Farejowicz

epic action sequences with large amounts of enemies sooner rather than later. This focus on action persists throughout the game, with the only true respite found on Sanctuary, the player's home base. Many new features and design choices support this action-oriented gameplay, such as one-press ammo purchasing and vehicle spawning, 3D maps with greater ease-of-use, and a better fast-travel system, all allowing the player to stay in battle or get there faster when needed.

Borderlands 3 has a new story that builds off of the previous games. You find yourself as a Vault Hunter, someone in search of great treasure hidden away by ancient aliens. While knowledge of past campaigns is not strictly necessary to understand what happens in this game, certain character or event references might be

missed, and the magic that can come from old characters making a new appearance might be lost. In my opinion, the story focuses slightly too much on this nostalgia factor, sacrificing a deep level of depth and character development that the previous games achieved. Regardless, the jokes tossed around by the game's characters can be appreciated by new and old players alike. The game chooses to tell most of its story through audio logs or radio conversations that take place while the action is happening, contributing even more to the feeling of constant engagement. Players can choose to stop and listen to the lore, immersing themselves in the game world, or continue pushing through enemies, in order to get to higher levels and better loot faster.

Borderlands 3 can be played cooperatively with others, though I opted for a solo experience. One thing the game does really well in this regard is making the player feel like a one-person army. Characters would often express their disbelief of your ability to accomplish a certain task, and then slowly shift their opinion as they witnessed you complete goal after goal. In turn, you are rewarded with new gear to make your character even more powerful.

This rotation of gear is another core mechanic of the game. As you defeat enemies, you will level up and acquire new skills and items. Sorting through endless weapons, shields, modifications, skills, and more can feel like another game in and of itself, allowing players to find a play-style that suits them best, if they are willing to invest the time. Here, *Borderlands 3* introduces a new “item score” system that gives players a general sense of an item’s strength, which may be useful for newer players. More experienced players can still compare the individual statistics of items and find the ones that have exactly what they need.



Post apocalyptic carnage returns in *Borderlands 3*.

Borderlands 3

Published by 2K Games

Available on PS4, Xbox One, and Windows

In terms of graphics, *Borderlands 3* continues to make great use of the cel-shaded style that the *Borderlands* series is known for. This cartoonish style works well with the game's light-hearted humor and succeeds in setting *Borderlands 3* apart from other modern games that focus on photorealism. Improvements to the game engine also mean new levels of detail in items, characters, and scenery. Put simply, it may not be the prettiest game of this generation, but it is definitely one of the most bold and colorful.

It is worth noting that *Borderlands 3* does have a fair share of technical issues. I had to try out two different PCs and a vast array of settings in order to get the game to run smoothly and without crashing. Many players on internet forums reported similar incidents for all available platforms. These crashes can be immensely immersion-breaking and severely detract from the overall experience the game offers. Gearbox assures users that they are working on fixes for reported issues.

Borderlands 3 is an excellent installment in the *Borderlands* series and the looter shooter genre. By focusing on mechanics that enhance the action, the game offers a consistent engaging experience, and is able to throw a little bit of humor and story into the mix as well.

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LAB SPOTLIGHT

Navigating our cities

Using technology to build smarter cities

By Anushka Ray

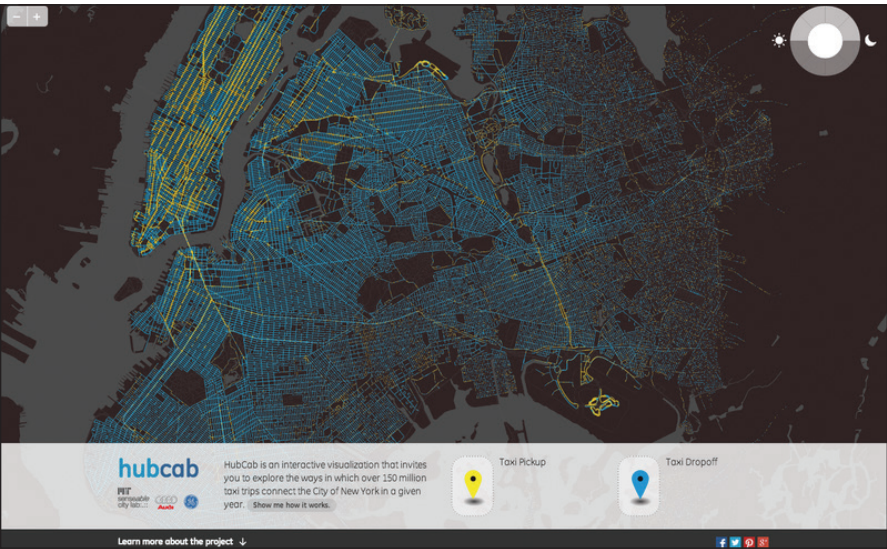
With new advancements in technology and the abundance of data, we can better understand the interactions between people and their urban environments. As a result, improvements in urban planning can pave the way for more efficient and environmentally cleaner cities. Researchers at the MIT Senseable City Lab aim to predict and study these improvements from a critical point of view. As conducting research to learn about people's habits in their urban environment requires members of the lab to consider many diverse viewpoints, the Senseable City Lab is made up of a multidisciplinary team of designers, engineers, computer scientists, biologists, and social scientists. With this diversity of researchers comes a diversity of technologies being utilized in the lab. "Reflecting the diversity of the lab, and the urban issues, we use big data analysis, machine learning techniques, but also robotics and design," says the director of the lab, Professor Carlo Ratti.

The team collects and analyzes two types of data: opportunistic data and sensor data. Opportunistic data is always being produced from social media logs, cell phone calls, and WiFi connections. On the other hand, sensor data is collected through devices developed by the lab for the specific problem at hand. They've applied their sensors to prevalent environmental problems in urban areas, such as deploying sensors on garbage trucks to

measure the air quality of cities. Additionally, they've integrated their sensors on small robots to collect waste water for analysis of the sewage system.

The research conducted at the Senseable City Lab has produced many exciting findings. For one, using the public data of the 150 million taxi trips that take place in New York, they found that only ten taxis cover a third of Manhattan's streets daily. "Thus, by attaching inexpensive sensors to crowd-sourced urban vehicles, we can capture hyper-local measurements across a large portion of a city," says Ratti. The lab has also utilized 50 million geo-tagged Weibo (a social media platform) check-ins as a measurement of social activity in specific locations. By correlating this data with the daily pollutant records for 251 cities, the lab found that urban activities are uniquely affected by air pollution. "For instance, we found a greater effect on locals' activities [compared] to visitors and on locals' leisure activities compared to work activities," says Ratti.

In addition to these projects, Ratti's lab is currently working on two projects entitled "AI Station" and "Tasty Data." The "AI Station" is a collaboration with the Société Nationale des Chemins de Fer (SNCF) Gares & Connexions at the Gare de Lyon train station in Paris. This project studies the digital footprint that people leave in spaces to better understand passenger behavior, with the end goal of improving their experience at train stations. The data collected consisted of Wi-Fi information



COURTESY OF THE SENSEABLE CITY LAB

The HubCab project revealed that only an average of 10 taxis cover a third of Manhattan's streets daily.

from the 100 million passengers that pass through the Gare de Lyon train station annually. The Wi-Fi data was used as a digital footprint to aid in understanding the behavior of passengers in train stations.

The "Tasty Data" project utilizes restaurant data to make predictions about local socioeconomic factors. Restaurant data included ratings, cuisine types, and more, and was provided by Dianping, the Chinese version of Yelp. The lab built a model that takes in this restaurant data and predicts factors like daytime and

nighttime populations, company presence, and spending amounts. These predictions were calculated across 9 cities in China to compare their socioeconomic attributes.

In light of the increasing availability of globally representative data, Ratti is hopeful about the future of the lab; "As digital technologies are pervasive, as well as urbanization, we see the lab working more and more in problems that present global patterns — and this can help us to address urban problems that happen everywhere."

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Duflo is youngest person and second woman to win Nobel Memorial Prize in Economics

Nobel Prize, from Page 1

jee is the Ford Foundation International professor of economics. They are co-founders of the Abdul Latif Jameel Poverty Action Lab (J-PAL), a global research center with the goal of reducing poverty via scientific evidence.

At a press conference held at MIT Monday, President L. Rafael Reif said, “By providing an experimental basis for developmental economics, Professors Banerjee and Duflo have reimaged their field and profoundly changed how governments and agencies around the world intervene to help people in poverty.”

“MIT economics is known for its combination of superb economic talent in a commitment to making a better world, and Abhijit and Esther stand as a wonderful example of both,” Reif continued.

Duflo said at the press conference that being given the prize “is going to make it a little easier to penetrate the many doors that are half open to us or not quite open to us, and hopefully bring the message of ‘policy based on evidence and hard thinking’ to many other places as well.”

“One could be a little bit more rigorous about what policies and what type of things can really help the poor,” Duflo said. “It goes in designing policies ... based on a better understanding of how the poor live, why they make the choices they make, what are specific traps that

hold them back, and what lever to push that could unlock these traps.”

“But one grows also by accepting the possibility that maybe you didn’t get it right exactly the first time, and that innovating, experimenting is useful,” Duflo continued.

Duflo also thanked the faculty and students of the economics department, specifically Bengt Holmström, who won the Nobel Memorial Prize in Economic Sciences in 2016, for seeing the potential of their research. She also thanked former MIT President Susan Hockfield for connecting them with donors, and Mohammed Jameel, who contributed several endowments to J-PAL.

Addressing the low proportion of women who have been Nobel Laureates and who pursue academic professions, Duflo said, “There are not enough women in the economic profession, at all levels. There are not enough undergraduates who choose to take economics. There are not enough graduate students who continue. There are not enough assistant professors. There are not enough tenured faculty.”

“The reasons why there are so few women who get the Nobel Prize or other prizes is not because the people who give prizes are discriminating against women. It’s because the entire funnel is just not big enough,” Duflo continued. “And that’s not true just for women, I should say. It’s true also for minorities. There are not enough African-Americans in the econom-

ics profession, by any stretch of the imagination. In fact, it makes women look positively numerous, and that has to change.”

Banerjee added that he takes pride “that our specific, little corner of economics, the field of development economics, has many more women than almost any other part of economics.”

When asked where they were planning to take their work, Banerjee responded, “I think we hope that we’ll get to do more of the same.”

“This was not work that we did a long time ago. We’re excited about what we’re doing now,” Banerjee explained. “We are learning new things. I’m really excited to look at the results from our latest intervention, so I think what I hope this will do is just open more opportunities to do more inventive things.”

“I think maybe one thing that we have started to do,” Duflo added, “is working with governments and working at scale with governments to help them evaluate both new approaches and also better ways to do things that they want to do anyways.”

Two other MIT affiliates were awarded the Nobel Prize this year. John Goodenough, former researcher at the MIT Lincoln Lab, shared the prize in chemistry for developing the lithium-ion battery. Visiting scientist at the MIT Kavli Institute Didier Queloz shared the prize in physics for his discovery of the first known exoplanet orbiting a solar-like star.

UA wants more student reps involved in Commencement discussions

Commencement, from Page 1

GSC was not directly involved in making this decision, advocacy by the GSC was a factor leading to the decision. Su wrote that there were “logistical constraints” which prevented changes to the 2020 commencement.

According to Su, the primary constraint for 2020 was that the ceremony for undergraduate and master’s students could not be moved to Thursday. “For 2021, that constraint does not exist, so the GSC will have a greater ability to advocate for changes that benefit the MIT community.”

Su wrote that the GSC will advocate for a 2021 commencement that better meets the needs of the graduate community, with the general principle being “to shorten the ceremony, while maintain-

ing the quality and gravitas that the current ceremony offers to all students at MIT.”

Elango wrote that the UA’s position on future changes to Commencement involves a few key points. One is that student representatives from future graduating classes be included in discussions about Commencement and that the Commencement Committee “continue to engage the community in a transparent process.”

The second point Elango emphasized was that an “overwhelming majority” of respondents to the UA survey prioritized receiving degrees as a class. The survey results will be sent out by the UA later this week, Elango wrote.

Students can send questions regarding the schedule for 2020 and the new committee to commencement@mit.edu.

It would be *turtley* awesome if you join **The Tech**



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```
File Edit Options Buffers Tools Im-Python Python Help
from new_skills import *
def learnMarketableJobSkills():
    return linux, OSX, javascript, applescript, perl, python, PHP
if self.interest == True:
    print "E-mail join@tech.mit.edu"
```

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NO EXPERIENCE NECESSARY!

Apple

Solution, page 12

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

Solution, page 12

8x		2-		7+	
	3÷	23+			
20x		2		72x	
	1-	30x			2
18x			3-		1
	6x			9+	

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

Pie Fillings

by Mark McClain

Solution, page 12

ACROSS

- 1 Catch sight of
- 5 Once owned
- 8 Make an escape
- 12 Very worrisome
- 13 Brewery creations
- 15 Migratory seabirds
- 17 Natural healer
- 18 Be less than candid
- 20 Cocoa-coffee blend
- 22 Arizona city
- 23 After-sunset time, in poems
- 24 Gung-ho
- 27 Offer a bet
- 29 Competition that makes a mess
- 32 Columbus campus: Abbr.
- 33 Edison’s middle name
- 34 Artist Neiman
- 37 Floating ice mass
- 39 Local watering hole
- 41 Online auctioneer
- 43 Grinch guy
- 46 Skier’s accessory

- 49 Three, in Sicily
- 50 Beatles’ music label
- 53 Baby bottle contents
- 56 First Indian prime minister
- 57 Gobbled up
- 58 Inclined walkway
- 60 Desert haven
- 63 Round firecracker
- 67 TV room device
- 68 Fiddler on the Roof lead role
- 69 Sheriff badge shape
- 70 Elongated circle
- 71 Oboist’s accessory
- 72 Hot tub
- 73 Western gambling center

DOWN

- 1 Dutch cheese
- 2 Cylindrical farm building
- 3 Method of doing something
- 4 Cowpoke’s “Hurray!”
- 5 Option for an omelet
- 6 Boxing legend
- 7 Refuse to approve

- 8 Second-largest city in IN
- 9 Astrological feline
- 10 Made a blunder
- 11 Drew to a close
- 14 Long oar
- 16 Former Medicare IDs
- 19 Paperless messages
- 21 Taj Mahal locale
- 25 Slender swimmer
- 26 Invitation abbreviation
- 28 Fairy tale brute
- 29 Unruly crowd
- 30 Employs
- 31 Brownish gray
- 35 Meddlesome
- 36 Football measure
- 38 American Pacific territory
- 40 Brought into the world
- 42 “Sure thing!”
- 44 Goaded into action
- 45 Spread apart
- 47 Director Spike
- 48 Audible rebound
- 51 Ewes’ babies
- 52 Skilled speaker

1	2	3	4		5	6	7		8	9	10	11	
12					13			14		15			16
17					18				19				
20				21			22				23		
		24			25	26		27		28			
29	30						31						
32				33				34			35	36	
37			38			39		40			41		42
	43			44	45		46		47	48		49	
				50			51				52		
53	54	55						56					
57				58			59		60			61	62
63			64					65	66		67		
68						69					70		
	71						72				73		

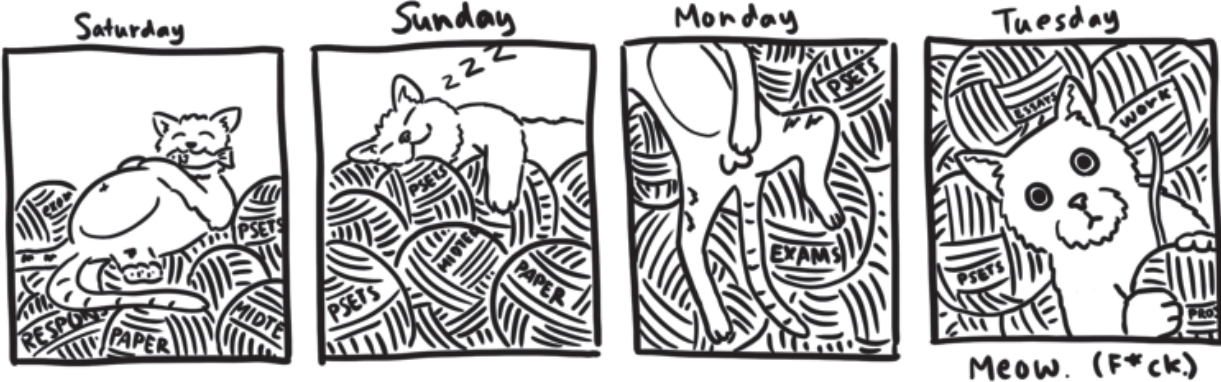
- 53 True statement
- 54 “Everything else” category
- 55 Christopher of Superman
- 59 Stew cookers
- 61 Lendl of tennis
- 62 Tune for one
- 64 Diner loaf
- 65 Atlas illustration
- 66 Bathing suit top

Four Day Weekend

ihthp

by Jaeho Kim '20

a comic about life at the 'tvte

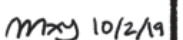


Solution, page 12

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.



miscellany
a journal comic,
by Max Yu '21



FOOTBALL

MIT Men’s Football beats Maine Maritime comfortably

Team secures a 30-12 win over Maine Maritime

By Suleman Thaniana

The match started off on the wrong foot for the Engineers as Reed Hopkins of Maine Maritime pulled in a touchdown pass from Nikolas Mouqin four minutes into the first quarter for the 0-6 lead. But MIT quickly tied the game with a seven yard touchdown by John Robertson ’20, this was followed by an extra point from Mark Wright ’21 to end the quarter at 7-6. The Engineers extended the lead to 20-6, credit to two touchdowns. The first one was a 25 yard touchdown pulled down by Mason DuMez ’21 as he went up the middle while the second one was a 12 yard touchdown by Keithen Shepard ’21, pulled down just inside the near pylon. Both passes were made by Chris Mauck ’20. Maine Maritime made it a one score game at the start of the third quarter as Mouqin found Dominic Casale wide open in the middle of the end zone. The third quarter ended with a 33 yard field goal by Wright. The fourth quarter was dominated mainly by MIT as the game was sealed with

a 10 play 86 yard drive, which ended with a touchdown by Ashton Robinson ’22. Robertson dominated the stat board with a career high 263 yard rushing performance who later in an interview emphasised the role played by the team in helping him achieve this personal accolade, saying, “I just so happened to be the guy who shows up on the stat sheet but full credit goes to that [offensive] line.” Other players with excellent performances for MIT include Mauck, who completed 8 passes including 2 touchdowns, and top reciever DuMez, with 48 yards. Subsequently, Sean Kent ’20 took ahold of the MIT defense and filled the stat board with a career high 10 tackles. As an overall the team owned the possession race 35:24-24:36 and the number of offensive yards 440-213. This victory brought the football team to a record of 3-2 overall and 2-1 in NEWMAC. The team now heads into a gap week which they wish to utilise to rest well and prepare for the next away game on Oct. 26 vs. the US Coast Guard Academy.



MIT Football WR Keithen Shepard scores a touchdown in Saturday’s win against Maine Maritime.

BEN KETTLE—THE TECH

101 THINGS TO DO BEFORE YOU GRADUATE

32. Take a stroll through Little Italy in the North End

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Tel: +1-617-230-3638 | Email: Patrick@ValtiRealEstate.com



Solution to Apple

from page 9

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

Solution to Cider

from page 9

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

Solution to Pie Fillings

from page 9

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

Solution to Hayride

from page 10

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

UPCOMING HOME EVENTS

Friday, October 18

Women’s Volleyball vs. Middlebury College 7:00 p.m.

Saturday, October 19

Crew: Head of the Charles All day
Sailing: Oberg Trophy All day
Men’s Water Polo: Harvard University Invitational All day
Rifle vs. U.S. Coast Guard Academy 9:00 a.m.
Swimming and Diving Alumnae Meet 10:00 a.m.
Women’s Volleyball vs. Williams College 11:00 a.m.
Men’s Soccer vs. Clark University 1:00 p.m.
Women’s Volleyball vs. No. 13 Tufts University 3:30 p.m.

Sunday, October 20

Crew: Head of the Charles All day
Sailing: Oberg Trophy All day
Men’s Water Polo: Harvard University Invitational All day

Tuesday, October 22

Field Hockey vs. Wellesley College 6:00 p.m

Wednesday, October 23

Men’s Soccer vs. Worcester State University 7:00 p.m

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