

# Small offices for profs during renovations

*Courses 14, 18 move to cramped spaces*

By Omar Ibarra  
STAFF REPORTER

After being relocated into smaller offices due to renovations of their buildings, the Mathematics and Economics Departments are optimistic, though frustrated with their situation.

Currently the departments are situated in buildings E17, E18, and E19, having moved from the Math and Economics headquarters in Buildings 2 and E52, respectively. According to math instructor Joe Lauer, “It’s a bit smaller and more cramped than the old space, but that’s fine; in general I don’t think we need much space to work.”

The renovation was undertaken as part of the MIT 2030 initiative to improve the framework of the Institute. The projects are expected to be completed by summer 2015 for Building 2, and 2016 for Building E52.

Full professors were probably the hardest hit by the move according to math professor Gigliola Staffilani. “All

full professors had big offices; everybody is taking a pretty big cut in terms of real estate,” said Staffilani, who now shares an office with a colleague.

“Professors that are not retired usually do not share offices, but these are very special circumstances,” continued Staffilani. “It is a consequence of the fact that we really don’t have any spare room here.”

One other consequence of the move, particularly for professors who were in employment before the computer age, is the droves of paper that they lost in the move. “Over the years some professors accumulated piles and piles of old papers and old calculations,” said Staffilani. “It took a lot of time for them to go through all that amount of stuff and find what to keep; these people really had to work hard, and the department was really supportive, providing staff to help them clean out.”

Professors were not the only ones

Offices, Page 14

## Posters responding to BC murals controversy appear



RACHEL E. AVILES—THE TECH

Posters have appeared around campus in response to the ongoing controversy surrounding Burton-Conner murals.

## Rush 2013 sees more students rushing, over 50 percent of freshman men pledging

The first week of the academic year marked another successful Rush period, according to IFC Rush Chair Haldun Anil '15. Of the 451 bids MIT fraternity chapters issued to 381 students, 330 have accepted their bids, accounting for more than half of the male freshmen population. (Not all students issued bids were freshmen.) These numbers are an increase over 2012 when 440 bids were issued to 375 students, yielding 324 pledges, and 2011 when 455 bids were offered to 369 students, yielding 321 pledges. Historical records show that the number of bids issued has remained fairly constant over the years but that the number of students receiving bids has increased steadily since around 2009.

According to Anil, the increase in rush yields are due to the IFC being better prepared for the Kresge Kickoff, the first event of Rush every fraternity has a table on Kresge Oval.

“There was a concerted effort to make sure that it was widely publicized,” said Anil. The IFC made use of both physical and digital media when advertising and did their best to spread the word in person as well, which Anil said contributed to a “critical mass” attendance at the Kresge Kickoff.

Rush isn’t over however, Anil says. “Rush is a year-long experience ... most houses are willing to recruit new members even as the semester progresses.”

—William Navarre

## MIT hosts community meeting about Title IX, professors win MacArthur Grants

### Title IX concerns

Earlier this week, posters related to the removal of Burton-Conner murals were displayed around the MIT campus. Barbara Baker, the Title IX Co-Coordinator for MIT, wrote an email to the Burton-Conner community in response to concerns about these posters, encouraging residents to attend a community meeting to “discuss MIT’s policy against sexual harassment and misconduct in compliance with Title IX,” among other topics.

MIT recently selected Sarah Rankin to fill the newly-created position of Title IX Investigator. The position is a two-year appointment and falls under the Dean for Student Life, and responsibilities include reporting case findings to various Deans at MIT. Rankin served for seven years as director of the Office of Sexual Assault Prevention and Response at Harvard University.

### MacArthur Grants

MIT professors Dina Katabi and Sara Seager, were two of the 24 recipients of the MacArthur “Genius Grants.” Katabi is a professor in the Department of Electrical Engineering and Computer Science, and much of her work focuses on wireless data transmission. She and her colleagues recently developed a method of tracking human movement through walls, which they call Wi-Vi.

Seager, a professor of Planetary Science and Physics, was recognized for her contributions to the study of exoplanets, which are planets outside of our solar system. One project she is leading is ExoplanetSat, which aims to build nanosatellites that are responsible for monitoring individual stars.

The Fellows each receive a five-year grant of \$625,000 from the MacArthur Foundation.

—Stephanie Holden



HENRY TAREQUE

A particularly exuberant Zumba dancer lets loose during MIT RecSports’ fourth annual Largest Outdoor Zumba Class on Tuesday, Sept. 24 in front of the Z-Center.

### IN SHORT

The MIT Bike Show and Market Festival will take place on Sunday from 11 a.m. – 3 p.m. at 32 Albany St (the lot between Mass Ave and Main). The event will feature a bike auction, quick bike tune-ups, raffles, and smoothies. Check out [bikeshowmarket.weebly.com](http://bikeshowmarket.weebly.com).

The First Annual Memorial Collier Cornhole Tournament will take place on Sunday from 11

a.m. – 6 p.m. It is open to the public, and the cost is \$5 at the door.

Add date is next Friday — the last day to add classes, drop classes without appearing on your transcript, change classes to P/D/E, and change from Listener to Credit status. You can find add/drop forms at [web.mit.edu/register/forms](http://web.mit.edu/register/forms). Next Friday is also the last day for June and September 2014 degree candidates to apply

for a double major.

IAP Externship applications are due before Wednesday, Oct. 9 at noon, and applications for the Externship Assistance Fund (to help offset the cost of an unpaid internship), are due at the same time. Get more information at [alum.mit.edu/students](http://alum.mit.edu/students).

Send news information and tips to [news@tech.mit.edu](mailto:news@tech.mit.edu).

### UNCONVINCING PERFORMANCES

Battle of the Year disappoints, even down to the dance scenes. ARTS, p. 10

### A GOURMET DUMPLING HOUSE?

Does Chinatown’s famous restaurant live up to the hype? ARTS, p. 9

### A NIGHT OF STARS

Boston Ballet kicked off its 50th season on Boston Common. ARTS, p. 8



### DRAKE: BACK WITH SWAGGER

Drake flaunts his confident style on his new album *Nothing Was The Same*. ARTS, p. 7

### A SO-CALLED APOLOGY?

Krasnoslobodtsev’s public apology was an insincere one. LETTERS, p. 4

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A black and white political cartoon by Jeff Smith. The scene is set in front of a modest, two-story house with a porch. On the porch, a woman in a checkered dress and a small child are being confronted by a large, balding man in a suit who is shouting and kicking the child off the porch. Another man in a striped suit stands by, looking on. A speech bubble from the man in the suit reads, "HAND OVER THE FOOD STAMPS, YOU FREELoader." A sign on the porch reads "THE POOR". To the left, a car is parked with a sign that says "TEA PARTY GOONS" and three American flags flying on poles behind it. The cartoon is signed "JEFF SMITH" and dated "2013 9-20" in the bottom right corner.

An article regarding sorority recruitment numbers also in Tuesday's issue misquoted Stephanie Holden '14. She said, "We are pleased to see improved retention for recruitment."

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( two men in a restaurant )

Simplicio: "What will you have, my friend ?"

Sagacio: "The dogmatists would have me swallow relativity. But I'll have undulatory propagatiion . . . with extra ketchup."

TROUBLE in the MIDDLE EAST...



CRISIS in JAPAN...



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# Regulators fine British firm ICAP \$87 mil in Libor scandal

*Financial firm altered reported figures from which Libor is compiled, in exchange for steaks, a Ferrari*

**By Mark Scott and Julia Werdigier**  
*THE NEW YORK TIMES*

LONDON — U.S. and British authorities moved a step further Wednesday in their investigation into the manipulation of the benchmark interest rate known as Libor, fining the British financial firm ICAP a combined \$87 million for its role.

**ICAP's employees had altered the reported figures from which Libor is compiled in exchange for ... financial payments.**

The regulators said Wednesday that ICAP's employees had altered the reported figures from which Libor is compiled, in exchange for promises of curry meals, steaks, a Ferrari and financial payments.

The agreement represents the fourth settlement with a large financial institution in the investigation, and while the penalty was smaller for ICAP, reportedly because of its smaller size, British regulators said the misconduct there was more serious.

The Justice Department also brought criminal charges against three former ICAP employees over their roles in the scandal. The men - Darrell Read, Daniel Wilkinson and Colin Goodman, according to U.S. prosecutors - could face up to 30 years in prison for each of the three counts: one count of conspiracy to commit wire fraud and two counts of wire fraud. They are not yet in custody.

The scandal over Libor, which is set daily and used to determine the cost of short-term loans around the world, erupted in the summer of 2012, as investigators unveiled evidence that many big investment banks had manipulated the benchmark for their own profit. Libor is short for the London interbank offered rate.

In total, ICAP, a company based in London that acts as a broker for firms that trade financial products, has agreed to a \$65 million settlement with the Commodity Futures Trading Commission in the United States and a 14 million pound (\$22 million) settlement with Britain's Financial Conduct Authority.

"This was insolent conduct impacting a benchmark rate that influences almost anything consumers

buy on credit," a commodity commission member, Bart Chilton, said on Wednesday. "These benchmarks are just too important to become a playground for some big-talking bad guys."

During more than four years through early 2011, ICAP employees spread misleading information about the Yen-Libor-linked interest rates in an effort to manipulate them, according to the regulatory filings released Wednesday. The ICAP brokers, including Goodman, who was called Lord Libor, received more than 400 requests from a senior trader at UBS to alter the rates for financial gain, the filings said.

The sometimes-colorful email messages, quoted in documents released Wednesday, outlined the financial and other incentives that were offered to ICAP employees by unnamed traders at some of the world's largest banks. In one series of messages, a senior trader at UBS said he would buy an ICAP broker a Ferrari if he altered some of the Libor rates, while traders also offered Champagne, dinners and eventually around \$72,000 in kickbacks to alter the rates.

"Life is tough enough over here without having to double-guess the Libors every morning and get zipper-de-do-da," an ICAP broker wrote in April 2007, according to the filings. "How about some form of performance bonus per quarter from your bonus pool to me for the Libor service."

The former ICAP employees used two tactics to manipulate the rates on behalf of the UBS trader, according to U.S. and British regulators. One included daily rate suggestions for participating Libor banks, with the figures skewed in favor of the UBS trader's financial positions. The brokers also provided false Libor information to individual rate submitters in an effort to make them change their daily rates.

**While several banks have paid fines, no people have yet been convicted in the scandal.**

"The misconduct in relation to Libor has cast a shadow over the financial services industry," said Tracey McDermott, director of enforcement and financial crime at the Financial Conduct Authority.

The British lenders Barclays and the Royal Bank of Scotland, as

well as UBS of Switzerland, have already agreed to pay a combined \$2.5 billion in fines related to Libor. Other banks, including Citigroup and Deutsche Bank, remain under investigation, and future penalties could be announced before the end of the year.

While several large banks have paid multimillion-dollar fines, no people have yet been convicted in the scandal.

"By allegedly participating in a scheme to manipulate benchmark interest rates for financial gain, these defendants undermined the integrity of the global markets," Attorney General Eric H. Holder Jr. said Wednesday. "They were supposed to be honest brokers, but instead, they put their own financial interests ahead of that larger responsibility."

British prosecutors have also started to file charges against individuals in the Libor case. In June, a former UBS and Citigroup trader, Tom A.W. Hayes, was charged with eight counts of fraud. Britain's Serious Fraud Office also charged Terry J. Farr and James A. Gilmour, two former brokers at RP Martin Holdings, a rival of ICAP.

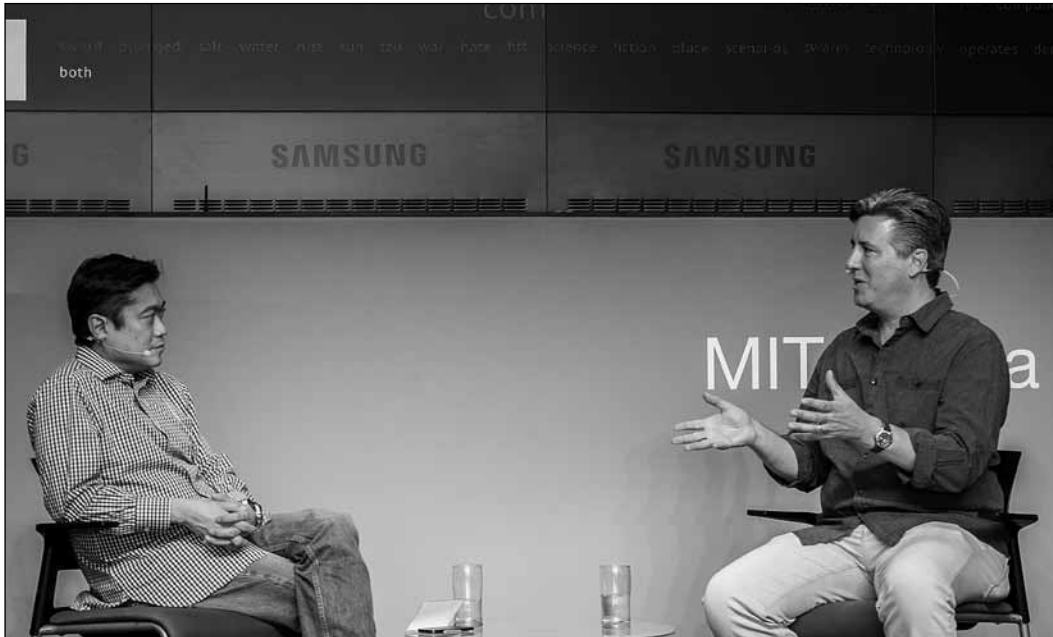
**The \$87 million fine is much lower than those imposed on the banks to take into consideration ICAP's size.**

ICAP's \$87 million fine is much lower than those imposed on the banks to take into consideration ICAP's smaller size, according to a person with knowledge of the matter who was not authorized to speak publicly.

British regulators, however, said that even though the fine was smaller, the misconduct at ICAP was widespread, the risk management systems and controls were inadequate and managers "failed to report misconduct or were complicit in it."

ICAP said that a total of 10 employees had been caught up in the rate-rigging scandal. The three brokers facing criminal charges already have left the firm, while the majority of the other seven also no longer work at the interdealer broker, according to ICAP's chief executive, Michael A. Spencer.

"This is not a cultural problem. It's sadly a rotten apple situation," Spencer said. "No one saw Libor as a potential problem. We failed to pick it up."



Author Daniel Suarez (right) discusses his publications during a conversation with Joi Ito (left) at the Media Lab on Tuesday, Sept. 24.





A dramatic stage performance featuring a central figure in a dynamic, high-kicking pose, surrounded by other performers in similar poses, set against a dark background with vibrant orange and yellow lighting.

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A photograph of a ballet performance. A ballerina in a white tutu is captured in a high, graceful leap, her right leg extended upwards. She is wearing a light-colored leotard. In the background, a male dancer in a white shirt and dark pants is in a crouched, dynamic pose. The scene is set against a dark background, with a spotlight illuminating the dancers. The audience is visible in the foreground, seen from behind.

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Mass performances are never easy to organize, nor are they cheap; they oftentimes have a circus-like air about them, but that did not hold last Saturday night. Mikko Nissinen, Boston Ballet's Artistic Director, must be proud since the starry night performance went silkily smoothly. In fact, the whole night was a success, and should have bolstered Bostonians' sense of ownership and pride in their hometown ballet company.

Boston Ballet's 2013–2014 season will feature *La Bayadère*, *Balanchine's Jewels*, and the ever popular *The Nutcracker*, *Cinderella*, and *Pricked*.



GREG STEINBRECHER—THE TECH

**Misa Kuranaga holds a pose during her performance** as the female half of Marius Peptia's "*Don Quixote Pas de deux*."

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A photograph of a stage performance. Three dancers in black dresses and red scarves are on a dark stage. One dancer is lying on the floor in the foreground, while the other two stand behind her, holding their scarves high. The scene is dramatically lit against a black background.

A photograph of a stage performance. Three dancers in black dresses and red scarves are on a dark stage. One dancer is lying on the floor in the foreground, while the other two stand behind her, holding their scarves high. The lighting is dramatic, highlighting the dancers against the dark background.



SONY PICTURES

### Arriving back at Swallow Falls in *Cloudy with a Chance of Meatballs 2*.

## MOVIE REVIEW

# Saving the world from sentient food mutants

An entertaining animation about the adventures of a nerd-turned-hero

**By Laura Breiman**

I walked into this movie determined that I would not laugh harder than the eager, soda-sipping, snot-flinging kids that surrounded me. I walked in with my head high and my ego puffed, confident that I would not shed a tear at the emotions on screen until little Timmy and his barely coherent sister next to me were bawling with sentimentality. I walked in, steadfastly thinking that this was a silly animated flick that had no power over me.

But *Cloudy With A Chance of Meatballs 2* defies all expectations. It does not allow for any solemnity or stone-heartedness. From the first dazzling shot of seamless animation (reminiscent of a cute-ified *Avatar*) to the final triumphant montage of the relatable nerd-turned-hero Flint Lockwood, the movie is a quick-moving sequence of fun, cheesiness, and heartwarming messages.

Those who are fond of the first installation in the series will appreciate this movie's similar use of amazing visual effects, easy and almost nonstop food-related puns ("There's a leek in the boat!"; "Uh-oh, we're TOAST"; and "This is bananas!" among the highlights), and dedication to heartwarming themes, including friendship, love, and the magic of

discovery.

Whereas the first movie stretched the boundaries of imagination through bigger and bigger food items, the sequel completely redefines imagination with the creation of “foodimals”. These foodimals are living, breathing, empathetic, and delicious creatures brought into being by a malfunctioning FLDSMDFR (Flint Lockwood Diatonic Super Mutating Dynamic Food Replicator — a name almost as catchy as LBDSDMDFR, coincidentally my next UROP project). Each foodimal looks like a cuter, tastier version of the actual animal, and characters like Barry the strawberry can leave the audience abashedly wiping away tears with a single, unintelligible “woooooo.”

The plot will especially resonate with MIT students, as Flint Lockwood desperately tries to choose between a stable life of pure research surrounded by his friends and family, and the exciting, wildly innovative life of industry at the slightly nefarious Live Corp. The makers of the movie must know exactly how it feels to be enticed into an internship or job with the promise of fancy technology and endless free food. At Live Corp., Flint Lockwood is showered with gadgets and obscurely delicious drinks such as “Quinoa Iced Lattes.”

We know how hard it is to pull away from those massage chairs and that all-access gym membership, Flint, we know.

Lockwood's friends are the same bunch of annoyingly entertaining-to-watch static characters that rely on one or two key quirks that never develop. Sam Sparks, his girlfriend, is the pretty and naïve meteorologist with a moral compass that is never misaligned. Flint's dad cares only about his son and fishing (and, in an ideal world, fishing with his son). Baby Brent is the goofy, happy-go-lucky ex-bully whose catchphrase, "Uh-oh!", will make you laugh at least once (if only because of the sheer number of times it is used). And Flint's monkey lab assistant, Steve, usually saves the day in some unbelievably wacky way.

We do not witness these characters growing or developing, but it doesn't really matter. These characters will not expostulate any universal truths about the human condition, but they keep the movie quick, witty, exciting, and endlessly fun.

If you're looking to have about an hour and a half of fun as a break from psets, go to this movie. If you're looking to increase the number of puns in your repertoire, go to this movie. If you're looking to start a diet, don't

★★★★☆

## Cloudy With A Chance Of Meatballs 2

**Directed by Cody  
Cameron and Kris  
Pearn**

**Starring Bill Hader,  
Anna Faris, and Will  
Forte**

**Rated PG**

## Now Playing

go to this movie, because everything looks delicious.

*Cloudy With A Chance of Meatballs 2* is not required to do more than entertain, and this hilarious film meets and exceeds this obligation by far.

## RESTAURANT REVIEW

# Go, but not for the dumplings

*The Tech* checks out "one of the best Chinese restaurants in America"

**By Rex Lam**

One of the most underrated assets of MIT is its location. A 10-minute bridge walk takes you into the heart of Boston, and a 10-minute bus ride gets you to that other university. What this means is that great food is never too far away. As company info sessions wind down, it is time to go out and explore the restaurants that our city has to offer.

As a senior and a local, I have somehow never been to Gourmet Dumpling House, a Taiwanese restaurant in Chinatown that has been listed as one of the best Chinese restaurants in America by *CNN Travel*, *Food & Wine*, and *Travel + Leisure*.

lings, pork and leek dumplings, and *sanbeiji*, which the menu descriptively named “Simmered 3 Essence Chopped Chicken Legs in hot pot.” When the sausages arrived, I realized that this appetizer was similar to the Hong Kong variant that my parents used to make. Served with garlic and cabbage, the sausages were thinly sliced, dry, and crispy. I thoroughly enjoyed the dish and had high expectations for the entrées.

Then came the signature dish — the soup dumplings. If you have ever had soup dumplings, you know that the greatest challenge is to pick the dumpling up from the tray without breaking the skin. Using my years of experience, I succeeded, took a deep breath, and took a bite of the dumpling. Although I was immediately struck by the flavor of the broth, I found that I disliked the thickness of the chewy skin, as it prevented me from enjoying the broth inside.

By this point, my appetite was in full swing and I proceeded to try the pork and leek dumplings. Once again, the dumpling skin was too thick, overshadowing the juiciness of the ingredients.

In my indulgence of dumplings, I had neglected the last dish — *sanbeiji*, or chicken served in a clay pot and cooked in soy sauce, sesame oil, and rice wine. It was not until my neighbors asked about the dish that I shifted my attention from the dumplings to the chicken. One of the most famous Taiwanese dishes, *sanbeiji* has a unique flavor because of its use of rice wine. Besides the tenderness of the chicken, the most memorable part of the dish was the subtle bitterness of the wine that served as a welcoming contrast to the savory

flavor of the dumplings.

Does the Gourmet Dumpling House live up to its name?

I would say no. The dumplings are not the best I have had, even in Boston. Ironically, my favorite dishes were the sausages and the *sanbeiji*.

Is it worth the visit? Yes. Those Taiwanese-style sausages were a pleasant surprise, and I would go back just for that dish.

Where in Chinatown is it? If you see a group of hungry-looking people standing on a sidewalk, you are in the right place.



REX S. LAM

**Simmered 3 Essence Chopped Chicken Legs in a hot pot**, also known as *sanbeiji*, at Gourmet Dumpling House in Chinatown.

**Does the Gourmet Dumpling house live up to its name? I would say no. Is it worth the visit? Yes.**

Knowing that I would have to wait an hour or so if I arrived at normal dinner time, I made sure I got there before 6 p.m. Unfortunately, other people had figured this out too, and I ended up waiting for twenty minutes before sitting down. Despite having to share the table with strangers, I found the atmosphere lively and the restaurant full of energy.

After asking the waiter for recommendations in English and broken Mandarin, I ordered Taiwanese-style sausages, soup dump-

Rent *Planet B-Boy* instead

Jason Blake (Josh Holloway), a once successful basketball coach who turned to alcohol after the death of his wife and son, is recruited by his hip-hop big shot friend Dante Graham (Laz Alonso) to form a “Dream Team” of the best b-boys from cities all over the U.S. to compete in the large-

able than a teenager who learns karate by waxing a car and becomes a champion in two months, but don't expect much more than the typical sports movie tropes. The crew strives to transcend their individualism and achieve the ever-elusive quality of synchronicity, which is one of the show criteria for judging b-boy competitions and the only reasonably developed theme of this movie.

was invented by young black and Latino people in New York in the 1970s, Dante wants Blake to bring the glory back to the nation where it all started. But b-boying has since become an international dance form, with top crews from Europe and Asia pushing the form to new limits, and the international reach of hip hop culture is emphasized by the split-screen, multilingual media coverage of the competition.

Here, the dancers are put in a tough spot that the film never resolves: The b-boys in the Dream Team are goaded into fighting for the top spot as though it's their birthright as Americans, but they are also told not to be "ugly Americans" who act like they are entitled to win.

The movie is crammed with subplots — a rivalry over a girlfriend, a dancer overcoming his homophobia towards an openly gay b-boy, a cash-strapped father who sneaks out of the training camp to visit his family — and the character development is

est international breaking competition, the eponymous Battle of the Year.

A basketball coach training dancers to work together as a crew because "coaching is coaching" is perhaps more believ-

Similar to real life, in which crews representing the U.S. did not appear in the final battles from 2002 to 2010, in this film, a crew from the U.S. hasn't won the competition in fifteen years. Because b-boying

★★★★★

## Battle of the Year

**Directed by Benson Lee**

**Starring Josh  
Holloway, Laz Alonso,  
and Josh Peck**

**Rated PG-13**

## Now Playing



**Rooster (Chris Brown) showing his skills** in *Battle of the Year*.

---

MATT KENNED

very unfocused. The lone b-girl responds to the catcalls of the crew by saying she likes men, not boys, and then we hear no more about her. It looked like the adorable assistant coach Franklyn (Josh Peck) was going to steal the show with his soft-spoken one-liners and shy likability, but the second half of the film doesn't showcase him enough for this to become his breakout role.

Director Benson Lee is best known for his 2007 documentary *Planet B-Boy*, which was shamelessly plugged in Battle of the Year, though it is not actually available on Netflix Instant Watch in real life — you have to put it in your DVD queue. *Planet B-Boy* focuses on the stories of four individuals from different teams and not only shows more dancing but tells much more poignant stories about how the b-boys relate to their often unsupportive families.

The 3D experience doesn't immerse the audience in the dance because the camera is still a tame distance away from the action. The dancing itself is not as interesting as that in *Planet B-Boy*, though in some scenes it does its work in telling the story, as when the Russian crew shows their superior cohesion with an impressive repertoire of partner acrobatics and the Dream Team responds with comparatively weak individual performances. The Korean crew has some whimsical moves that give an idea of what b-boying has become, but if you want to experience a range of styles and impressive power moves, you're better off watching *Planet B-Boy*.

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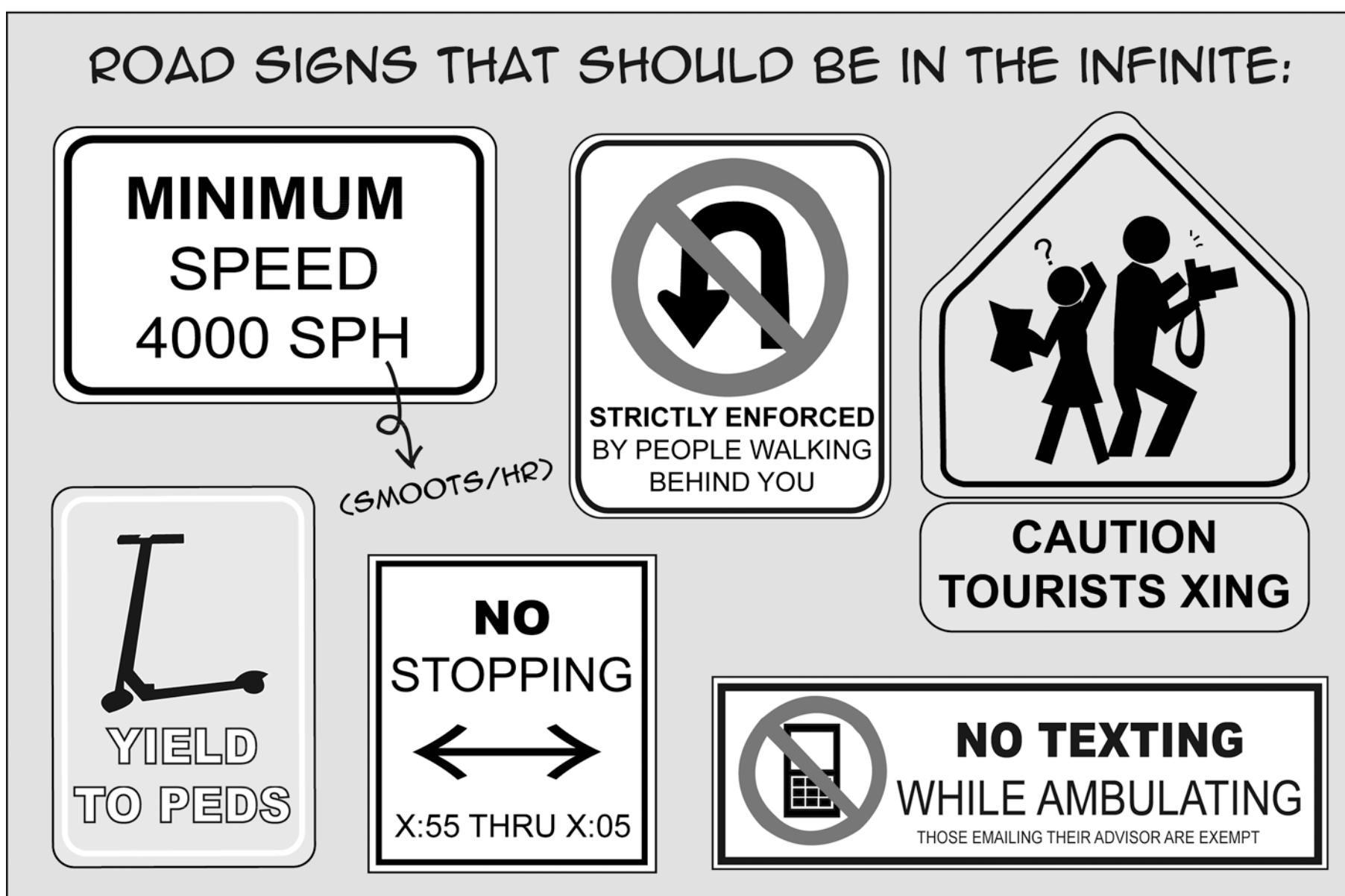


part of R.A.W. (Rinnigade Art Works)





BY ERIKA TRENT





# Google alters search engine to handle complex queries

*Algorithm to analyze relationships, not keywords*

By **Claire Cain Miller**  
*THE NEW YORK TIMES*

Google on Thursday announced one of the biggest changes ever to its search engine, a rewriting of its algorithm to handle more complex queries that affects 90 percent of all searches.

**The world’s most popular search engine will focus more on trying to understand the meanings of things and the relationships among them.**

The change represents a new approach to search using Google and required the biggest changes to the company’s search algorithm since 2000. Now, the world’s most popular search engine will focus more on trying to understand the meanings of things and the relationships among them, as opposed to the company’s original strategy of matching keywords.

The company made the changes, executives said, because Google users are asking increasingly long and complex questions and they are searching Google more often on mobile phones with voice search.

“They said, ‘Let’s go back and basically replace the engine of a 1950s car,’” said Danny Sullivan, founding editor of Search Engine Land, an industry blog. “It’s fair

to say the general public seemed not to have noticed that Google ripped out its engine while driving down the road and replaced it with something else.”

Google announced the new algorithm, called Hummingbird, at a press event to celebrate the search engine’s 15th birthday. The event was held in the garage that Google’s founders rented when they started the company. Yet Google revealed few details about how the new search algorithm works or what it changed. And it said it made the change a month ago, though consumers may not have noticed a significant difference in search results during that time.

Google originally matched keywords in a search query to the same words on Web pages. Hummingbird is the culmination of a shift to understanding the meaning of phrases in a query and showing people Web pages that more accurately match that meaning.

**Google originally matched keywords in a search query to the same words on Web pages. Hummingbird is the culmination of a shift to understanding the meaning of phrases in a query.**

Google had taken other, smaller steps toward this. The Knowledge Graph, introduced last year, understands the meanings of and relationships between things, people and places, which is known as semantic search. It is why a search for Michelle Obama, for instance, shows her birthday, hometown and names of fam-

ily members, as well as links to people like Hillary Clinton and Joe Biden.

The new algorithm also builds on work Google has done to understand conversational language, like interpreting what pronouns in a search query refer to.

Hummingbird is a way to extend that to all Web search, not just to results related to the entities included in the Knowledge Graph. It tries to connect phrases and understand concepts in a long query.

The outcome is not a change in the way Google searches the Web, but to the results that it shows. Unlike with some of its other algorithm changes, including one that pushed down so-called content farms in search results, Hummingbird is unlikely to affect certain categories of Web businesses noticeably, Sullivan said. Instead, Google believes users will see more precise results.

Google announced a few other, more minor changes to

# Smaller quarters an inconvenience

*Professors have to share some offices, grad students in cubicles*

**Offices**, from Page 1

affected. Graduate students have been situated into cubicles due to the lack of rooms, but all post-docs still have offices. “I have a smaller office with no windows, but it’s comfortable enough,” said Lauer. “It’s definitely less space, but probably better on the whole — the old building was creaky and falling apart while this one is more modern.”

**‘The old building was creaky and falling apart. This one’s more modern.’**

*Joe Lauer*  
MATH INSTRUCTOR

Despite the tight living space, the departments seem happy, and the move has had some positive effects.

“Once you become a professor,

you pick an office, and that stays with you basically until you retire or want to do something else. So for like 30 years you have the same spot, meaning you don’t really get to know other people,” said Staffilani. “With this move, and the fact that we didn’t keep the same order of offices, we got to meet a lot more people than we knew before. This has been really good in getting people to bringing the staff together.”

With renovations promising more modern amenities, while still preserving the infrastructure of the original construction. Recent plans released to the departments show a promising outlook for the renovation.

“We are very grateful to the head of our department for finding a place for us for the next two and a half years ... We are actually pretty happy about it,” said Staffilani. “[Moving back] will be great since we’ll get bigger offices and will be more centralized.”

**Solution to Crossword**

*from page 11*

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

**Solution to Sudoku**

*from page 11*

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

**Solution to Techdoku I**

*from page 11*

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 6 | 5 | 4 | 3 | 2 |
| 2 | 1 | 6 | 5 | 4 | 3 |
| 3 | 2 | 1 | 6 | 5 | 4 |
| 5 | 4 | 3 | 2 | 1 | 6 |
| 6 | 5 | 4 | 3 | 2 | 1 |
| 4 | 3 | 2 | 1 | 6 | 5 |

**Solution to Techdoku II**

*from page 13*

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 4 | 5 | 6 | 1 | 2 | 3 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 2 | 3 | 4 | 5 | 6 | 1 |
| 6 | 1 | 2 | 3 | 4 | 5 |
| 3 | 4 | 5 | 6 | 1 | 2 |
| 5 | 6 | 1 | 2 | 3 | 4 |

**Solution to Techdoku III**

*from page 13*

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 5 | 2 | 4 | 6 | 3 |
| 6 | 4 | 1 | 3 | 5 | 2 |
| 4 | 2 | 5 | 1 | 3 | 6 |
| 3 | 1 | 4 | 6 | 2 | 5 |
| 2 | 6 | 3 | 5 | 1 | 4 |
| 5 | 3 | 6 | 2 | 4 | 1 |

**Solution to Techdoku IV**

*from page 13*

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

# MIT-CHINA

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