

EXPAND YOUR MIND

JESSICA PAN AND MARITZA SEGURA STORY | CHARLENE LIN DESIGN | MICHAEL PIHULIC PHOTOS

GETTING TO LBNL

An interview with a Nobel Laureate is certainly a remarkable experience worthy of story. So, too, is the journey taken to meeting such a distinguished person. When Jessica Pan, Maritza Segura, and Michael Pihulic travel up the hill to the Lawrence Berkeley National Laboratory to find Professor Saul Perlmutter, they find themselves in unfamiliar territory.

(Maritza and Mikey P are waiting for the bus to the Lawrence Berkeley National Laboratory.)

MARITZA: How long till the bus gets here?

Mikey P (doubtful): Well the website said the bus circulates every ten minutes, so we'll see...

(Enter Jessica.)

JESSICA: Sorry guys, I just got out of class.

(The bus rolls up and they board.)

Mikey P: Hey guys, I may not be able to get in since I am not a Berkeley student and I only have this e-mail I printed out confirming our interview. If worst comes to worst, you might have to take the photos.

(Mikey P takes out his Nikon camera and tries to show Maritza how to take a photograph. Maritza just looks at the camera wide-eyed and skeptical about this plan.)

JESSICA: You guys, we've reached the gate. Mikey, I think you have to go check in.

(The bus stops and Mikey P, taking only his ID and the printed e-mail, gets off. The bus drives off, leaving Mikey at the gate and Jessica and Maritza fearing they have lost their photographer.)

JESSICA: Should we get off too?

Bus Driver: You guys wanna get off?

(The driver opens the bus door. Maritza quickly takes Mikey P's camera and his sweater and exits the bus with Jessica. Mikey P sees them waiting for him from afar and walks as quickly as the steep road lets him.)

JESSICA: For a moment there I really thought we were gonna have to take really bad photos!

Mikey P (grinning): Don't worry, I'm back!

(The trio arrive at Building 50, where the interview will be conducted.)

JESSICA: Here it is. Look you guys!

(Jessica points to a wall with a big white banner proclaiming Professor Perlmutter as the 2011 Nobel Laureate. The banner has scribbles of people congratulating Professor Perlmutter.)

JESSICA: Aww, look—even his daughter wrote on it!

MARITZA: We're pretty early. We're scheduled for 4:30 but it's barely 4:05!

Mikey P: I think this time, it's better to be early than late.

(Jessica and Maritza arrange how they will approach the interview while Mikey P gets his camera ready. The scheduled time finally arrives but Professor Perlmutter has yet to arrive. The anticipation is getting worse, but it is greatly alleviated by the coming of Perlmutter's assistant who shows them into the professor's office.)

ASSISTANT: Just sit down while I go see if Professor Perlmutter is done with his meeting

Mikey P, Jessica, and *MARITZA*: Thank you!

(The assistant leaves and the three are left admiring the amazing view of the Golden Gate Bridge from Professor Perlmutter's office.)

MARITZA: Now that's a view well earned!

(As they wait, they hear the footsteps of people walking in the corridor. Each time footsteps come closer, they anticipate Professor Perlmutter coming in, but are only disappointed as another person walks by. The clack, clack, clack of shoes is heard once more, this time accompanied by two distinct voices.)

Mikey P: This is it!

(Enter Professor Perlmutter.)

PERLMUTTER: Good afternoon!

(Maritza, Jessica, and Mike stand up and shake Professor Perlmutter's hand. Maritza is about to ask the first question but is surprised that she is beaten by Professor Perlmutter, who has taken a seat and is smiling at the trio.)

PERLMUTTER: So, how does yearbook work? Are you guys supposed to chronicle things that have happened over the last three years before you go to press, or just this year?

(Maritza, still nervous, looks at Jessica.)

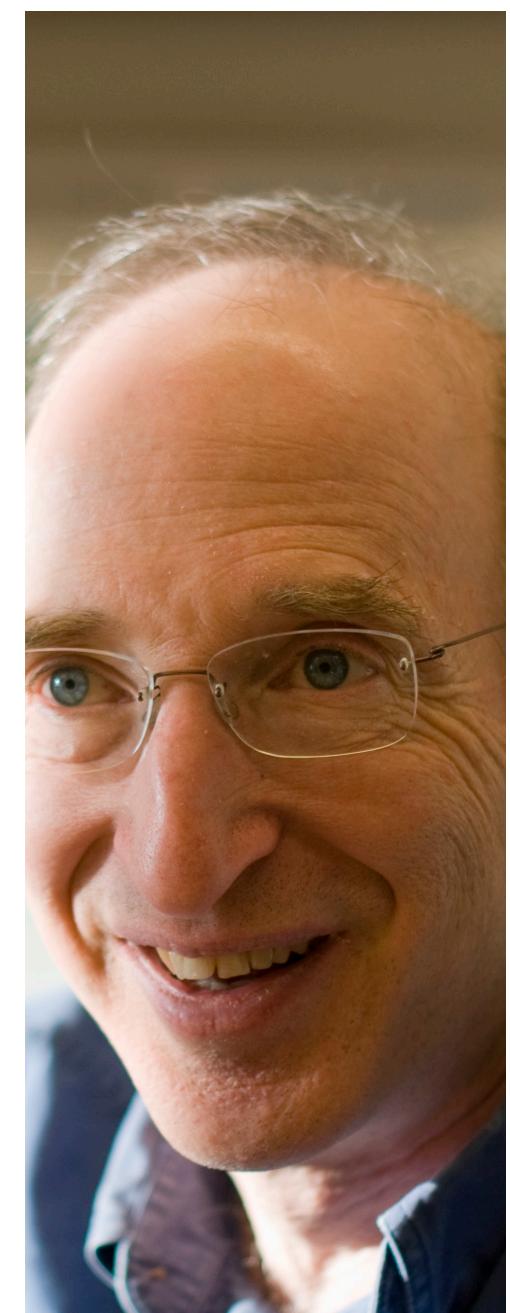
JESSICA: It's mostly for seniors, so we try to chronicle the events that have happened during the seniors' year.

PERLMUTTER: So it's just for the senior's experience that one year, not over the whole three years they spent here?

JESSICA: Yeah, it's just one year.

MARITZA (smiling): I thought we were doing the reporting here!

PERLMUTTER: So what can I help with?



SAUL PERLMUTTER: THE INTERVIEW

You've been asked so many times about your project, but we want to see another side of you, such as your new class here at Berkeley. What's your experience teaching that class after becoming a Nobel Prize winner?

If anything, there are lots of things that are really great about getting back connected to the world when you're in the midst of all this fairy tale stuff, you know, of the Nobel Prize. When you're teaching, it's good at reminding you what's important and what things you care about. And this course [Physics and Music], I really care about a lot because it's one of those few chances that you have at discussing ways to approach the world for people who not necessarily ever get a chance to do a science major or study science as a career but basically the ideas and ways we approach the world as scientists are everybody should be using and should have as part of their bag of tricks its not the only way to approach the world but everybody should have that as one of their ways to go at it. Music of course is one of my loves and pleasures throughout my life.

In this particular case I think it's a nice easy way to bring people to science at a university where they wouldn't necessarily be drawn to or feel at home in and yet they are drawn

to and feel at home with music. And then of course it's just fun when you're learning about music using science you keep discovering little surprises and things that you never knew.

What is your reaction when you found out about the prize?

When they called about the prize, I felt that my job, first and foremost, was how to make sure that everybody who was part of the work felt like they were part of the prize and enjoy it too. It was like organizing a wedding.

Do you have any hobbies?

Well, having a child is of course, is a bit of a hobby. Having an 8-year-old child around who is constantly inventing new things to do that you never thought you'd be interested in. That's always been fun. Of course, I still do play tennis, and listening to music and experimenting with that. I always used to get my friends together at my house every other week and we would sight read choral music, anything from the 16th century up to the 20th century, we all particularly liked jazz. But of course things change, people move out of town, we lost our tenor, and you know that when you lose your tenor that you're in trouble!

Is your 8-year-old daughter interested in science too?

She is! In fact, she was saying to me up until a year ago or so, she plans to be a scientist, opera singer, babysitter. She had like four or five things that she had decided was going to be her career, and recently, she told me that she was going to have to drop science, and I asked her, "Why?" and she told me that she still loved science, but she saw that I worked much too hard, and that it wouldn't fit in with the other things that she wanted to do. I had to convince her that its not all just hard work, but that its fun and rewarding as well.

How do you like your parking spot? Whom do you park next to?

Well, there's actually a space of four or five spots and I can just choose where I want to park. It used to be that the University designated a certain spot for you to park in, but now I can park where I want within a certain number of spots. I think it was a very adequate reward.

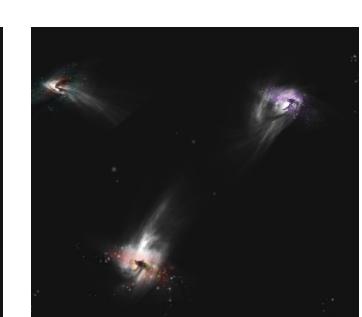
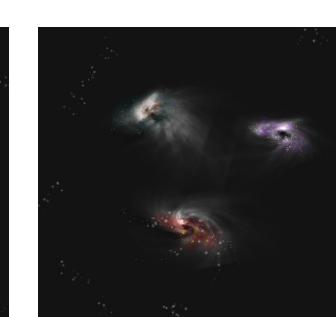
How does it feel to be referenced in the television show *The Big Bang Theory*?

In Sweden, where the Nobel Prize ceremony takes place and is orchestrated, citizens and

people tune in to watch the ceremony for hours, much like how Americans watch the Superbowl or watch the Academy Awards. You can't imagine that in the United States, because we don't have that focus on science. But the fact that we have managed to get a sitcom about the Big Bang and that it does reference topical science occasionally, it's a little bit in that vein. It reminds people that there's something going on and that's all that really matters. And of course, it's always cool to receive calls from friends from all over the world saying, "Hey, we saw you get referenced in *The Big Bang Theory*!" Unfortunately, I've never actually seen episodes where I am referenced.

Have you ever Googled yourself?

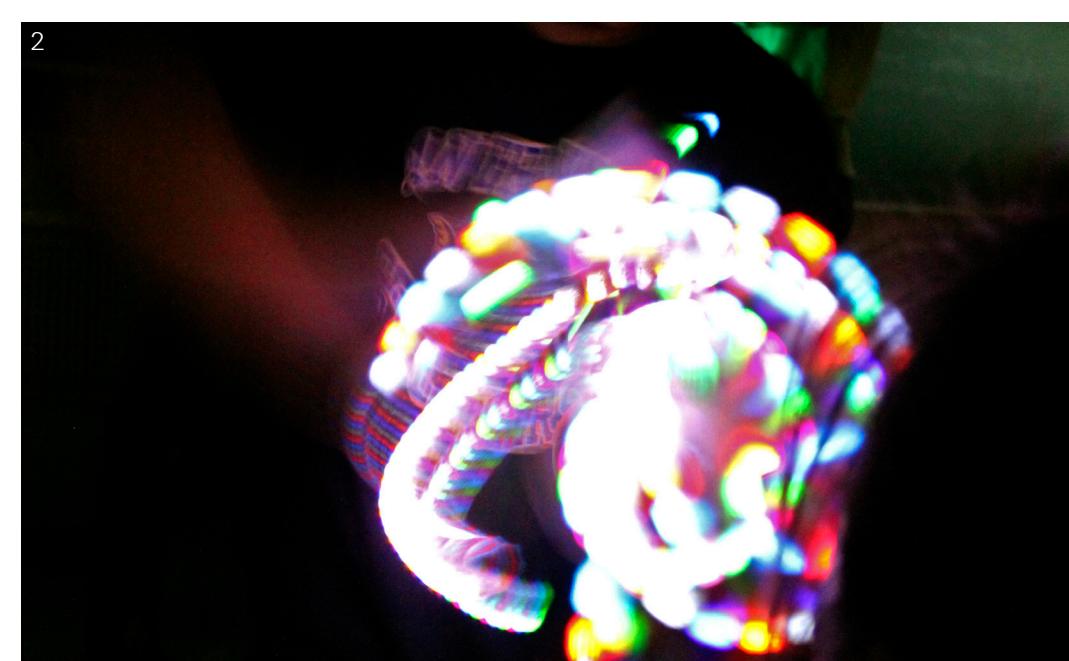
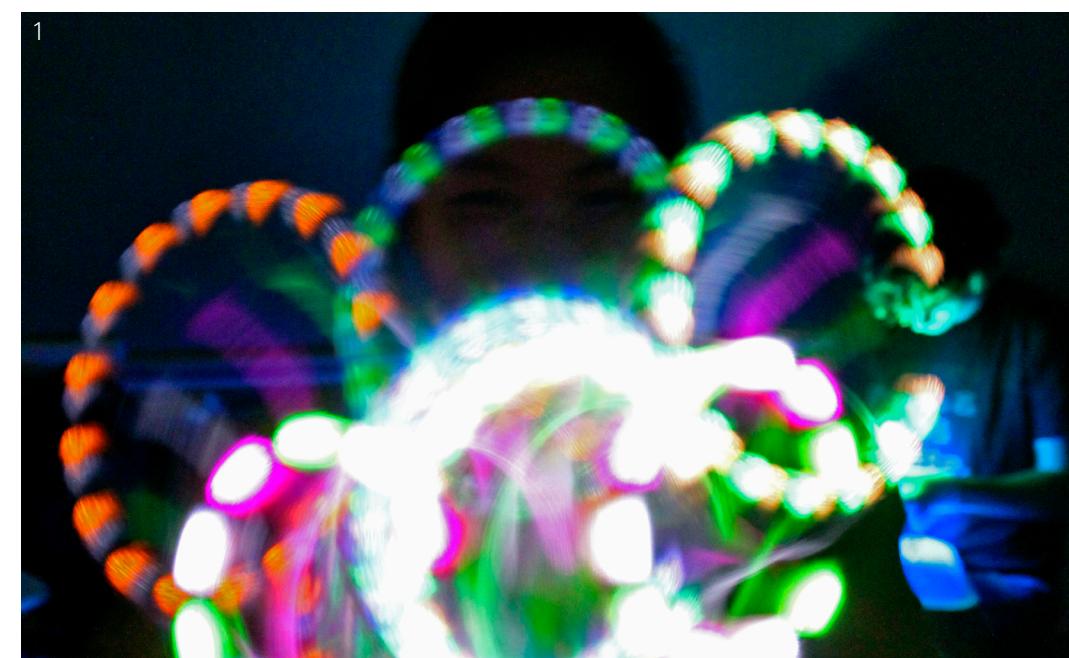
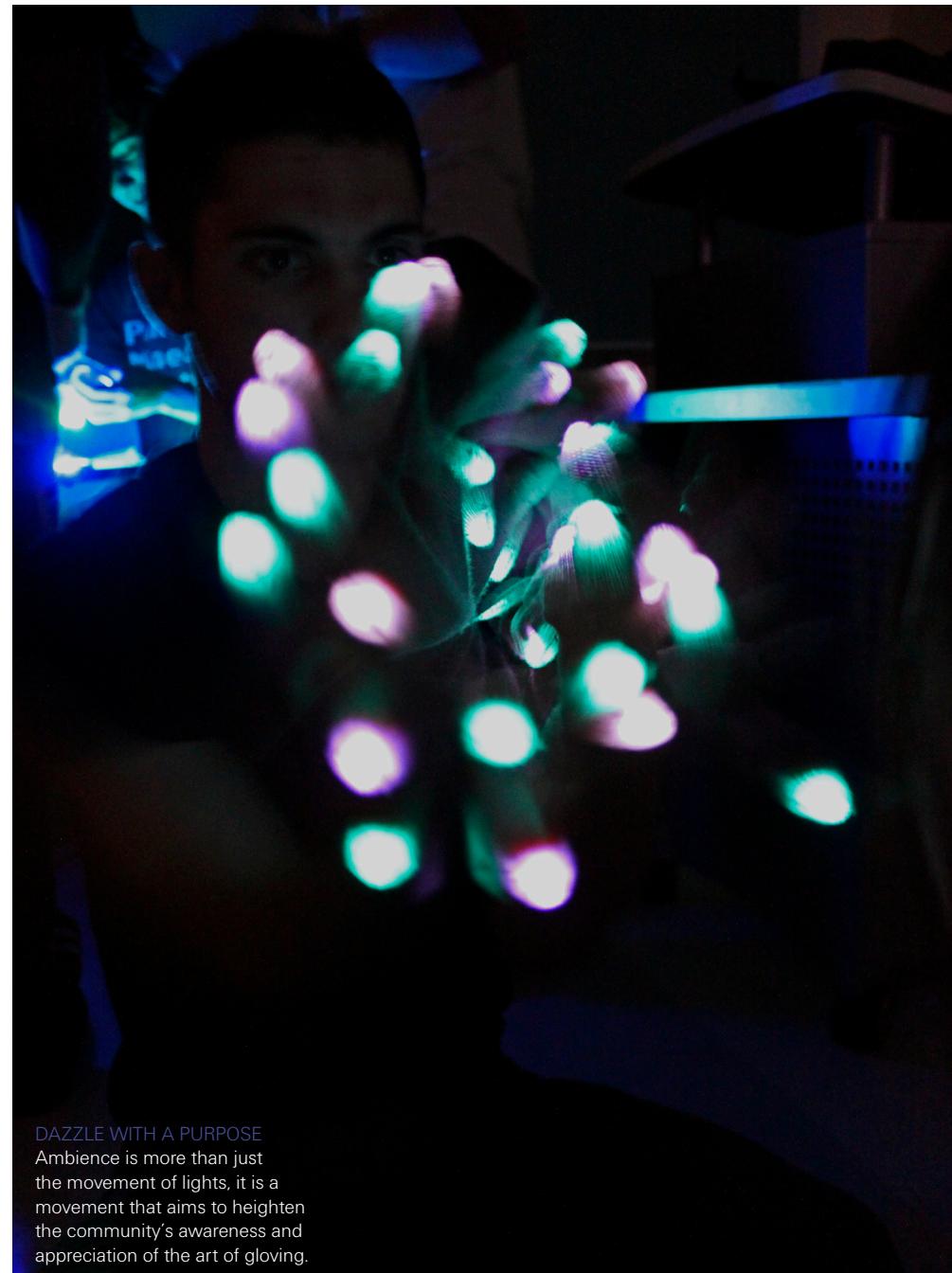
I've checked to see what's come up, but usually it's Wikipedia, an article that is on the Berkeley campus webpage, and other standard things. I don't think I've ever seen any YouTube links to *The Big Bang* episodes though! You know, at one point a year or two back, I remember that the Wikipedia article had mistakes in it, but I imagine it's all different now because some people must update it.



AN THE RESEARCH THAT WON THE NOBEL PRIZE
EXPANDING UNIVERSE

Job # 6772 School U.C. Berkeley

Pages are supposed to be submitted in landscape view, binding remains the same

**WORK ORDER****WORK ORDER****LIGHTING THE WAY****AMBIENCE STORY | YOYO TSAI DESIGN | AMBIENCE PHOTOS**

Ambience is the first and only student group dedicated to creating a community for glovers at universities. Established in the summer of 2011 at UC Berkeley and UC Irvine, Ambience promotes glove lightshows as an art, dance, and form of entertainment in a positive environment. Its members engage in weekly sessions and perform at dances and philanthropy events.

The organization's mission is to create a safe and sober environment for people to learn, practice, and trade lightshows. However, Ambience is not simply a campus club, but a movement for all lightshow artists who love what they do and want to see it become accepted as a respected art form. Its goal is not to make gloving mainstream, but rather spread awareness and give people the opportunity to become more exposed to the culture. Many common misconceptions about gloving exist that make the art appear to be intrinsically

tied to drug and rave culture. Ambience wants to break those stereotypes and build a forum for the appreciation of lightshows beyond these realms of influence. Ambience provides a positive environment so that glovers of all skill levels may come together to learn from each other. Members engage in weekly sessions and perform at a variety of dance and philanthropy events. Ambience is being brought to multiple campuses in order to establish a community for glovers and demonstrate to the public the true value of the art.

Ambience works in conjunction with the DeCal on campus known as "Ambience: An Intro to Glove Lightshows." The DeCal provides students on campus the opportunity to become familiarized with lightshow theory and musicality while simultaneously learning fundamental techniques involved in lightshow performances. An important project that students must perform is a double lightshow, in which two students

perform an improvised lightshow together with nothing more than a few key aspects in mind and knowledge of each other's style. During Fall 2011, the two facilitators decided to record a double lightshow as an example for the class to learn from. Pleased with how the performance turned out, the facilitators decided to submit the video in the Google+ and UC Berkeley Talent Show. The talent show was an online competition that displayed a wide variety of talent at UC Berkeley. The winner was determined by the video that received the most +1's by the end of the competition. Multiple performance groups and talented students entered; however, people seemed to be most impressed by the double lightshow performance. Ambience was awarded first place and a prize of \$200, helping push glove lightshows forward as a legitimate talent and art!

Special Instructions

Job # 6772 School U.C. Berkeley

1, 2 TIME TO GLOW Ambience members demonstrate gloving techniques. To perfect their craft, the club held two-hour-long weekly meetings: to showcase their talent, they participated in multiple performances throughout the school year. 3, 4 GLOVE GROOVY Students practice welding gloves containing various LED lights, attempting to synchronize their movements with both the music and each other.

WORK ORDER**WORK ORDER****WORK ORDER****WORK ORDER**

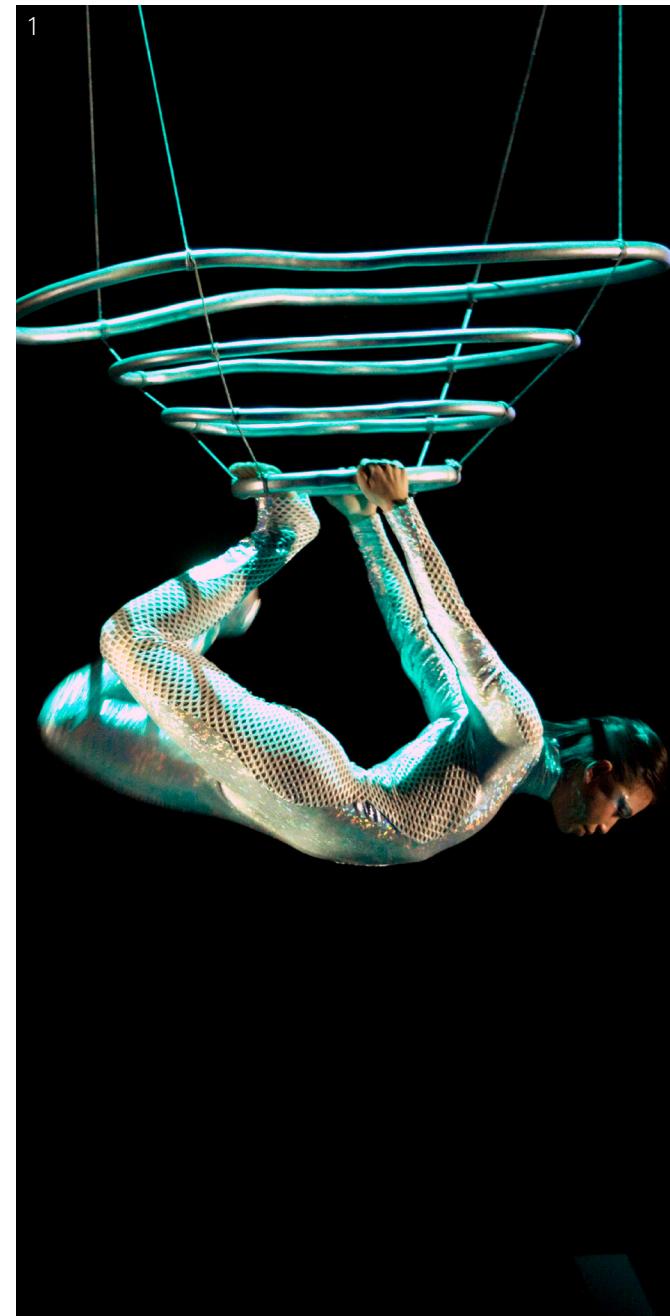
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Job # 6772 School U.C. Berkeley

Pages are supposed to be submitted in landscape view, binding remains the same

Even Page



INSPIRING INNOVATION

BILL HUNG STORY | LISA LIM DESIGN | MICCA DE JOYA PHOTOS

Julio Diaz was an ordinary Joe who took the New York City Subway every day. One night as he stepped out of the subway, a teenager greeted him with a knife, demanding all his money. Julio gave the teenager his wallet, and as the robber began to run off, Julio stopped him. "Hey kid, it is a bit cold. Do you want my jacket, too?" The baffled teenager accepted the offer, and Julio said, "I'm on my way to dinner right now. You're welcome to join me if you like." The teenager was dumbstruck. At the end of their dinner, Julio said to the kid, "I would really like to treat you, but you have my wallet." Very naturally, the teenager returned the wallet to Julio. "May I ask for one more thing?" asked Julio. "May I have your knife?" The teenager gave Julio his knife.

This is the story Nipun Mehta gave to close his presentation at TEDxBerkeley. Mr. Mehta is the founder of ServiceSpace, a non-profit organization that coined the term *giftingism*—the practice of radically generous acts that change the world."

Mr. Mehta was one of the fifteen speakers and performers at TEDxBerkeley. TED (Technology, Entertainment and Design), since its founding in 1984 as a local conference in Monterey, CA, has become a global event. On February 4, 2012, TED came to Berkeley for the third consecutive year, bringing with it some of the world's most innovative visionaries.

Among these visionaries was a marketing manager of Google, an IBM sales representative turned Broadway singer, a UC Berkeley professor and researcher on human-computer interaction, and a classically trained hip-hop violinist. Each of the speakers/performers were given 18 minutes to present his or her idea in a creative way to inspire the audience.

Sitting in Zellerbach listening and watching these presenters on stage was a one-of-a-kind experience. It was not a typical "performance" one would associate with Zellerbach Hall. Although the majority of the time there was a speaker with a clicker in hand, flipping through PowerPoint slides, it was surprisingly entertaining to listen to people who were serious about their crazy ideas. A friend of mine, however, was not convinced. "PowerPoint? That sounds like going to class to me," he said. Well, he was right. It did feel like lecture, except that the lecturers were people from Google, Broadway, *America's Got Talent*, and, of course, UC Berkeley.

Overall, going to TEDxBerkeley was like going to a live concert. I had listened to many TED Talks online, but to hear the squeaking of the stage as the speaker gathered his thoughts amidst a silent auditorium and then laugh with the rest of the audience was truly a memorable experience.

GOT TALENT? Lindsey Sterling, who has been playing the violin for 19 years with a range that extends from classical to rock and roll, takes part in a show-stopping performance at TEDxBerkeley 2012. The *America's Got Talent* contestant played the musical accompaniment to Capacitor's Okeanos.

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TEDxBERKELEY

Odd Page

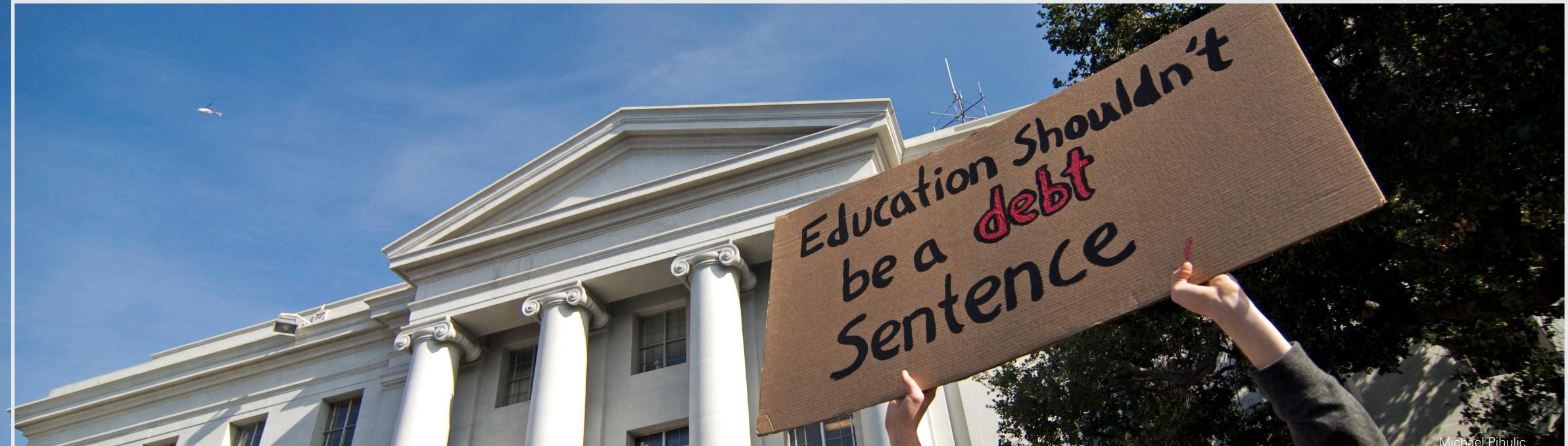
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Even Page

FOR PLANT USE
□ MAC
○ OWIN

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□ QPP
□ Pro
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TRYING TIMES Beneath the drone of a news helicopter, a student raises his homemade cardboard sign in front of Sproul Hall, expressing his concerns about the current financial situation that burdens many students in the UC system.



#OCCUPYCAL

JANE ZHOU, JESSICA PAN, AND MARITZA SEGURA STORY | JESSICA FENG DESIGN

From Robert Reich's speech on the November 15 "Day of Action" to the arrival of Daniel Ellsberg on November 16 to the mass sleep-out of November 21, the Occupy movement swept Berkeley by force in an interval of less than a week. Throughout this time, students were kept informed through the #occupycal tag on Twitter. The following are three real "tweets," each complemented by a first-person account of the event.

Tonights GA is @ 6pm, mass sleep-out at 9pm. Wear warm clothes & there will be a study area for people who want to do homework! #occupycal

5:23 PM - 21 Nov 11 via Twitter for iPad

Reply Retweet Favorite

Nov. 21: As I was making my way to class through the throngs of students walking through Sproul and the Occupy Cal assembly, I was suddenly handed a flyer for a mass pajama party on the steps of Sproul. I was shocked at the event and, quite frankly, was skeptical of how many people would show up simply because it was a couple of days before Thanksgiving. I, myself, was heading back to SoCal that very night for break. At the airport that night, as I was waiting for my flight, I started browsing Facebook curious to see whether there were any status updates about the event. I was surprised to see that friends and acquaintances of mine were actually attending the mass sleep-out. I later found out that, unlike what I previously thought, many people showed up for this event even though the weather was frigidly cold and many had midterms they had to study for and travel plans for Thanksgiving. Although Occupy Cal had many major highlight events, ultimately, this event strengthened my belief in Cal's Occupy movement. We weren't simply students caught up in the craze of the Occupy movement as some have deemed us to be. By balancing the regular responsibilities of a student along with fighting for our education, we are demonstrating our dedication to this large-scale political movement. The sheer number of people who attended the mass sleep-out and braved the weather and the possibility of arrest was a sign of our strong solidarity and hopes for change.



Robert Reich to speak on Sproul steps tomorrow after 8pm.

1:27 PM - 14 Nov 11 via Twitter for Android

Reply Retweet Favorite

Nov. 15: The buzzing of the students gradually grew louder as they poured out of Evans, having just finished a very difficult Chemistry 1A midterm exam. As I glanced around, it seemed as if half the freshmen class had emerged from different testing locations all over campus all at once, their voices ringing in the air with relief. As the crowd rapidly dissipated, I allowed myself to be swept up in the mob with my friend Laura; we had agreed to go on a 'lights date' together so that we could admire the vibrant blue and yellow lights that wrapped around Sather Gate, in honor of the Big Game that was happening later on in the week. We chattered happily (after all, the midterm that we had slaved over studying for hours and hours on end was now over), and as we approached the gate to see the pretty lights, we were stopped short by a massive audience crowded at the base of the steps of Sproul. I was amazed to see people sitting on the roof of the Golden Bear Café, mobbing for a better view, their legs dangling precariously over the shingles. I squeezed my way into the crowd, and though I could not see Robert Reich, I could feel the electricity of the crowd as we strained to catch every booming word from the speaker; later on, a bird's eye view photo of the turnout at Robert Reich's speech surfaced on Facebook and went viral. When I saw that picture, I felt so proud of myself—I felt like I was really living the life of a true Berkeley student, being part of a movement that was going to make history.

1 AMPLIFIED Will Crum rocks out at the November 15 demonstration, sending electric waves of energy into an already restless crowd. 2 FIERCE WORDS Donning classic red attire representing defiance and solidarity, a protestor speaks against cuts to public education. 3 THE DAYS OF APATHY ARE OVER A crowd of thousands begins to gather in the early evening of November 15 to hear Professor Robert Reich's Mario Savio Memorial Lecture on the steps of Sproul Hall.

Daniel Ellsberg is at the #occupycal encampment with us ! #pentagonpapers

4:18 PM - 16 Nov 11 via Twitter for iPad

Reply Retweet Favorite

Nov. 16: Rare is the time when something on Twitter catches my attention. While scrolling down the tweets from the Occupy Cal movement, a name caught my eye. Daniel Ellsberg. Not many people have heard his name; I first heard of Mr. Ellsberg while slaving over a history project in high school concerning the Vietnam War. He was a notable figure in those times, not only because he used to be a United States military analyst, but because he was the one to release the "Pentagon Papers," which detailed the reality of the negative impacts of the Vietnam War on the U.S.

Imagine my pleasant surprise realizing that such a notable figure in our history had set foot on our campus. Cal is known to be proud protestors on injustice, including the Vietnam War. It amazed me how history, in a way, comes full circle. Berkeley was notable in its protest against the War and one of the important figures finally came to our campus to support the injustice done in our campus. The atmosphere of gaining such an important figure for the rights of students on campus is truly inspiring.

In an interview he gave on Sproul, he revealed that tonight had given him the hope that he had lost for awhile. The new generation of this time is recreating the movements from forty-two years ago and it makes people aware of the great changes that, as a group, we can make one campus at a time.

4 EDUCATION MUST BE FREE A demonstrator leads chants as students tour the Berkeley campus spreading their message. 5 PARADE Over 2,000 protestors, including UC Berkeley students and faculty, march down Bancroft Avenue at around 3 p.m. on November 15.