

University of California Grad Slam 2018

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1 UNIVERSITY OF CALIFORNIA
2 GRAD SLAM
3 Wednesday, April 4, 2018

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15 LinkedIn

16 San Francisco, California

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A P P E A R A N C E S

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1 PROCEEDING

2 MS. ISAAC: Good morning, everyone. How are
3 you? Good morning. Welcome to LinkedIn. All right.
4 We're excited. We're ready. Are you ready? Nice.
5 That's what I'm talking about. That's an audience with
6 students who are pumped, excited, ready to go, and
7 ready to win. Welcome to LinkedIn. Before I get
8 started, my name is Nicole Isaac. I manage US Public
9 Policy at LinkedIn. We are super excited for the
10 fourth Grad Slam competition and the third time that
11 we're hosting this competition at LinkedIn.

12 I just wanted to call out a few individuals
13 who have really been instrumental in making this
14 happen. Of course, Pres. Napolitano and the UCOP team,
15 as well as Pamela Jennings who've really been driving
16 this for several months. Katie Ferrick and Orlando
17 White on our Community Engagement Team, super thrilled
18 that they are part of our LinkedIn family and working
19 to ensure that our engagement across San Francisco and
20 the entire Bay Area community is strong and successful.

21 And really quickly, why are we here today? So
22 we are here because LinkedIn's vision is to create

1 economic opportunity for every member of the global
2 workforce, all three billion individuals. Why does
3 that matter? It matters because of all the work that
4 you're doing as educators, all of the work that you're
5 doing as students, all of the work that we're doing
6 collectively to ensure that we are contributing to our
7 communities and we're contributing to our overall
8 environment for a sustainable place by which anyone can
9 access resources needed to thrive in our society.

10 So I am incredibly excited because a part of
11 this vision, as you know, we talk about this often at
12 LinkedIn, it's, it's really the way in which we are
13 mapping the digital economy and the educational
14 organizations. All of the institutions of education
15 are a critical part of this.

16 Right now, on LinkedIn we have over 60,000
17 institutions of education on our platform. We have
18 over 550 million individuals and our goal is to figure
19 out ways in which any individual anywhere around the
20 world can understand not only what is their dream job,
21 but how can they go to the University of California to
22 access that dream job. What are the classes that

1 they'll need to enroll in for purposes of having that
2 job not only today, but tomorrow? And we believe in
3 lifelong learning more than anything else at this
4 company.

5 So I am personally incredibly excited to have
6 you all here on behalf of our company, on behalf of our
7 team, and just a tremendous welcome from all of us.
8 With that, I'm going to turn it over to Pres.
9 Napolitano, who, as you know, is the 20th president of
10 the University of California. She became the first
11 woman to serve in this role in 2013, and as president
12 of the University of California, she leads a system
13 with ten campuses, five medical centers, three
14 affiliated national laboratories, and a statewide
15 division of agriculture and natural resources.

16 As you know, she is an incredibly
17 distinguished public servant, is the former Secretary
18 of Homeland Security under Pres. Obama, and two-term
19 governor of Arizona. Please join me in welcoming Pres.
20 Napolitano.

21 PRES. NAPOLITANO: Welcome to Grad Slam.
22 Whoa. It is my pleasure to be with you today to serve

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1 as your MC for the systemwide Grad Slam finals. This
2 is a competition that was begun in 2015 and it is an
3 honor to be here for the 2018 competition. I'd like to
4 thank our host, LinkedIn, for once again providing
5 space and support for Grad Slam, for their partnership
6 with the University of California to make this
7 competition a big success.

8 You know, the University of California is a
9 research university. We are in the business of
10 creating new knowledge and discovering research
11 solutions for big global challenges. But the general
12 public isn't always aware of the breadth and depth of
13 the UC research enterprise or how this work affects the
14 lives of every single Californian.

15 I know as president of the university I have
16 prioritized making basic research more understandable,
17 accessible, and exciting to the world beyond the
18 classroom or the laboratory. And that's especially
19 important today because, as many of you know, the
20 future of federal research funding remains uncertain.
21 We need to continue to urge policymakers in Washington,
22 DC to invest in basic research because it is key to our

1 nation's scientific, technological, and economic
2 advancements. And that is so very, very important.

3 So Grad Slam plays a key role in highlighting
4 the broad societal significance of research at UC,
5 whether that's researches, research on diseases like
6 cancer or diabetes, or agricultural research that helps
7 us feed the world, or energy research that will reduce
8 carbon emissions and their impact.

9 The ten graduate students who you will hear
10 from today are already champions at explaining their
11 research to the public in engaging dynamic and
12 understandable ways. They have proven that they know
13 how to explain complicated research to those who do not
14 conduct it and they are well on their way to becoming
15 public intellectuals and ambassadors for research.
16 Those are talents that our country needs so much today.

17 Now it is time to meet our five distinguished
18 judges. You can read their brief bios in the Grad Slam
19 program, but I'm going to ask each of them to spend a
20 minute to introduce themselves to you. So we'll begin
21 with Guy Berger. So Guy, you want to stand and...

22 MR. BERGER: Thanks, Gov. Napolitano or Pres.

1 Napolitano. I'm Guy Berger. I'm LinkedIn's chief
2 economist. I head LinkedIn's economic research team.
3 We're doing lots of cool projects like skills gap
4 analytics that I'm looking forward to all of you
5 gradually discovering over the coming years. I got the
6 research bug actually -- I got my PhD in econ in an
7 east coast university I won't name, but the, my
8 research bug was initially caught at UCSD where I was,
9 I majored in econ and in math. So this actually being
10 here and supporting Grad Slam is very near and dear to
11 me and to LinkedIn.

12 PRES. NAPOLITANO: Thank you. Karen
13 Duderstadt.

14 MS. DUDERSTADT: Good morning. I'm Karen
15 Duderstadt. I'm currently at the Office of the
16 President as the UC Chair of the Coordinating Council
17 for the Graduates Association. So this is gathering of
18 the, of representatives from ten campuses and looking
19 at the quality of graduate programs. My other hat is
20 that I'm a faculty member in the graduate division of
21 UCSF in the School of Nursing, and I also have a
22 clinical practice here in San Francisco at Zuckerberg

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1 San Francisco General. Thank you.

2 PRES. NAPOLITANO: Lark Park?

3 MS. PARK: Good morning, everybody. I'm Lark
4 Park. I am a UC regent and a proud graduate of UC
5 Berkeley back a while ago. In my day job I work for
6 Gov. Jerry Brown as a policy advisor and I'm super
7 excited to be here because early in my career I was a
8 reporter for venture capital and life sciences and
9 technology starts ups. So I'm really looking forward
10 to hearing what's going on in the field of research.
11 Thank you.

12 PRES. NAPOLITANO: Thank you. Neil Chase.

13 MR. CHASE: Thank you. I'm Neil Chase. I'm
14 the editor of the Mercury News and the East Bay Times,
15 graduate of a midwestern university that I won't name,
16 but sometimes known as UC Ann Arbor. I may, I'm a
17 Bruin dad. Just wrote my last check to, to UCLA for
18 tuition and very happy to be here. Thanks.

19 PRES. NAPOLITANO: Great. Julia Avilla.

20 MS. AVILLA: My name is Julia Avilla. I go to
21 Gateway High School and I'm a senior there and I'm an
22 incoming freshman at the Elliott School of

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1 International Affairs at the George Washington
2 University in Washington, DC. I'm the vice president
3 of my school's debate club, which just won Chapter of
4 the Year for all of Northern California. And I'm a Bay
5 area student leader for the movement against gun
6 reform. I have and will continue to work with state
7 legislators to get proper gun reform and I would like
8 to pursue a career in public service and social
9 justice, but not before I go to grad school.

10 PRES. NAPOLITANO: Excellent. Thank you all.
11 We are so pleased that you all, all five of you have
12 agreed to participate as judges today and I'm glad as
13 well that we have for the first time Julia, a high
14 school student as a judge. And in the audience about
15 30-some-odd of Julia's classmates from Gateway High
16 School are over here. So welcome them. A public
17 charter school that is truly a gateway to college.

18 Since the school was founded in San Francisco
19 20 years ago, 96% of its graduates have gone on to
20 college. So you go, Gateway. Yeah. And there is one
21 more special judge. All of you, whether you are with
22 us here physically today or watching on livestream

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1 online, our audience will have an opportunity today to
2 participate in Grad Slam. Once again, we will present
3 a People's Choice award along with the winners selected
4 by our judges' panel.

5 After the presentations have concluded, we'll
6 provide instructions on how you in the audience, those
7 who are here and those watching online, can vote. So
8 keep track of your favorites and help choose the
9 People's Choice award.

10 Now the research these graduates students are
11 about to present to you represents years of hard work.
12 But there's no harm in having a little fun while we
13 celebrate their great effort. So please as I welcome
14 each one to the, to the stage for their presentation,
15 give them a warm welcome.

16 And so without further ado, I'm going to
17 welcome our first contestant, Jessica Noll from UC
18 Riverside.

19 MS. NOLL: All right. So you're in class,
20 those who go to class, and you forgot to do the
21 homework again. So you turn to your classmate to ask
22 for help and you realize you can't speak. Your face is

1 drooping. You reach out in a panic and you find that
2 you can't move your arm either. So what's going on?
3 You're having a stroke. So while you may be focused on
4 your arm or even your face, what's really going on is
5 in your brain. So what is a stroke exactly?

6 A stroke is a block often caused by a blood
7 clot or a hemorrhage, which is a bleed of an artery
8 within the brain. It is currently ranked as the fifth
9 leading cause of death and the leading cause of adult
10 disability. About 800,000 cases occur every year in
11 the US alone and about four will occur just during my
12 talk to you today.

13 The major issue with stroke is that you have
14 your initial area of damage, but this begins to grow
15 and expand in just a couple hours following your stroke
16 unless treated immediately. Unfortunately, there is
17 only one treatment for stroke and this is called tissue
18 plasminogen activator, or tPA, which actually dissolves
19 the blood clot causing the stroke. But this
20 unfortunately puts you at a risk for hemorrhage, which
21 is internal bleeding and most likely death if used over
22 four-and-a-half hours after your stroke occurs.

1 But that sounds like plenty of time, right?
2 Like half of a *Lord of the Rings* movie? Yeah, yeah,
3 yeah. Unfortunately, it's not. So most patients don't
4 actually come into the ER as soon as they start seeing
5 symptoms. But for the sake of this argument, let's
6 pretend that you do come into the ER as soon as you
7 realize you can't speak and you can't move your arm.
8 Now you have to be diagnosed as having a stroke with
9 lengthy, time-consuming tests.

10 By the time you get out of these tests, you're
11 most likely outside of this window. And because of
12 this, only 2 to 5% of patients are actually treated and
13 this should terrify you.

14 So I actually plan to change this by looking
15 at the blood and markers within the blood to
16 development a timeline for stroke. So I've analyzed
17 50,000 blood markers from zero to six hours after
18 stroke occurs and so far I have found three represented
19 by BM 1, 2, and 3 that show unique patterns that could
20 ideally be developed into a rapid blood test similar to
21 how a pregnancy test or a urine test works that could,
22 you put some blood on one end of the essentially test

1 strip and it reads the levels of these blood markers
2 and tells you if you're having a stroke and how long
3 it's been since your stroke occurred.

4 So in this case it's been two hours since the
5 stroke occurred, which is plenty of time for treatment.
6 If this could be represented and implemented within an
7 ER, this could dramatically increase the amount of
8 patients who are being treated in the first place and
9 hopefully save many lives because, who knows, it may be
10 someone you know. It could be you. So thank you.

11 PRES. NAPOLITANO: Congratulations. Now that
12 we're done with our spontaneous photo, so tell us a
13 little bit about you. When, when did you first begin
14 to think of going into research such as this?

15 MS. NOLL: I've always been interested in
16 medical research and that's what brought me to UCR.
17 But in terms of neurological issues and medical
18 development, I didn't get into that until later through
19 my first year of schooling at UCR. And I realized how,
20 how dangerous these issues really are and how little
21 known is, actually known about them 'cause the brain is
22 not very well understood. And it's scary.

1 PRES. NAPOLITANO: Yeah, yeah.

2 MS. NOLL: So it definitely needs to be
3 researched.

4 PRES. NAPOLITANO: Right, right. So why don't
5 you tell us something about you that your thesis
6 advisor doesn't necessarily know?

7 MS. NOLL: Oh. Well, I'm talking to the
8 public, so. He probably shouldn't know that I'm also
9 interested in cancer research. Just in general.

10 PRES. NAPOLITANO: You're going to specialize
11 between stroke and cancer?

12 MS. NOLL: No. He, I'm very interested in
13 stroke, but cancer also fascinates me.

14 PRES. NAPOLITANO: Yeah, yeah. And where,
15 where do you see yourself going? Where do you see
16 yourself in the next five to ten years?

17 MS. NOLL: Well, I'm only a second year, so
18 probably still be here.

19 PRES. NAPOLITANO: This grad research takes a
20 while, doesn't it?

21 MS. NOLL: It's this going to be a while.

22 PRES. NAPOLITANO: Yeah. Where'd you grow up?

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1 MS. NOLL: Chicago area. Also, Northwest
2 Indiana.

3 PRES. NAPOLITANO: Yeah, yeah. You have
4 brothers and sisters?

5 MS. NOLL: Too many, yeah. Three.

6 PRES. NAPOLITANO: Oh, my gosh. And did any
7 of them make their way to California too?

8 MS. NOLL: They're much younger than me. So
9 they're actually in college right now still in Indiana.

10 PRES. NAPOLITANO: Yeah, yeah. That, that's
11 great. I'm going to ask you to think about hosting a
12 dinner party.

13 MS. NOLL: Oh.

14 PRES. NAPOLITANO: And --

15 MS. NOLL: That requires work.

16 PRES. NAPOLITANO: Yes. And do you cook?

17 MS. NOLL: Oh, yes, yes.

18 PRES. NAPOLITANO: Okay. So you're really
19 hosting a dinner party, not like me where you pick up
20 takeout. Plot, give us the table. Give us three
21 people that you would have at your dinner party --

22 MS. NOLL: Out of anyone in the world?

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1 PRES. NAPOLITANO: Anybody in the world.

2 Alive or dead. The dead won't eat much, but...

3 MS. NOLL: Well, in the case that's all,

4 they're all dead. That's a good question. You should

5 have prepared me for this. Probably Ellen Degeneres

6 because she's amazing and I respect her a lot. I feel

7 like everyone's judging me.

8 PRES. NAPOLITANO: Yeah, only these five, so.

9 MS. NOLL: Well, in that case. Those three.

10 No. Probably as tacky as this sounds, Ghandi. Like I

11 really do respect him and his peaceful movement even

12 though he did have some issues, but. Yeah, we could

13 talk about that at dinner. I'm going to go, I'll just

14 say Beyoncé because she's amazing.

15 PRES. NAPOLITANO: Yeah. And that sounds like

16 an amazing combination, Ellen Degeneres, Gandhi,

17 Beyoncé. That would be an amazing dinner party. All

18 right. Thank you, Jessica. Congratulations. Now I'd

19 like you to welcome our second contestant to the stage,

20 Yiqi Cao from UC San Francisco.

21 MS. CAO: Our bodies don't always know what's

22 best for us and they can get especially confused with

1 medical implants. For example, if you've got a clogged
2 blood vessel in your heart, the doctor will insert a
3 stent. It's a mesh metal tube that opens the vessels
4 back up to restore blood flow and prevent a heart
5 attack. So when you deploy the stent, the pressure
6 against the vessel does some damage to your tissue.
7 But the problem is not with this minor injury.

8 The problem is with your body's attempt to
9 repair it. It sends cells marching to the inside of
10 the vessel, and when they see the stent, they're just
11 shocked into a frenzy. They start moving quickly,
12 dividing quickly, and making a lot of proteins like
13 collagen. And then this mess of cells and proteins
14 form a scar that just narrows the vessels again once
15 more threatening a heart attack.

16 Because of this complication, one in ten
17 patients need to get a new stent within just one year.
18 The goal of my thesis research is to keep the vessels
19 open after stenting. Some people do this by using
20 drugs to just kill off the cells, but that wipes out
21 the healthy cells too. So we need a less destructive
22 method.

1 My strategy is to change the surface of the
2 stent to physically slow down the cells and that's
3 because cells just like you and I are sensitive to
4 changes in the terrain. Imagine that you're on a
5 freshly paved road. It's easy to move around quickly
6 or start running. But if you're walking on stepping
7 stones in a river, you got to watch where you step and
8 that can slow you down.

9 So the paved stent, the flat stent is like the
10 paved road where cells are highly active, moving
11 quickly, dividing quickly, and making a lot of scars.
12 So I changed the surface to be more like these stepping
13 stones. To do this, I took titanium, which is a common
14 material for implants, and I dipped it in a chemical
15 cocktail that I formulated.

16 When I zap it with electricity, the surface
17 builds up and etches away in a specific pattern that
18 results in an array of tubes standing upright. They
19 kind of look like nano rigatoni pastas. And a thousand
20 of these fit side-by-side on the width of a single
21 human hair. And on these tubes the cells can only walk
22 on the rim, but not the empty space in the middle. So

1 now traversing the stent is like traversing nanometer-
2 scaled stepping stones.

3 And incredibly I found that this surface slows
4 the cells down. On these nano tubes, the cells would
5 divide more slowly and they'll make less scar tissue.
6 So with this simple change in the surface, we can
7 convince our body to please just give the stent a
8 better chance at preventing heart attacks. Thank you.

9 PRES. NAPOLITANO: All right. So while the
10 judges are doing the judging, we're going to have a
11 little conversation and I'm going to ask you when did
12 you first get the idea that you wanted to go into this
13 type of research.

14 MS. CAO: Yeah. So I think when everyone's
15 little, you just really want to do something important,
16 but you really don't know what. So a lot of times when
17 I was in high school and middle school, I volunteered a
18 lot. I volunteered a lot at women shelters and nursing
19 homes. And when I discovered in my AP Biology class
20 that you can find a cure for a disease, you'll have
21 such a bigger scalable impact and I really enjoyed the
22 class. So from then on, I realized I really would love

1 to contribute to curing or treating some disease.

2 PRES. NAPOLITANO: Where did you grow up?

3 MS. CAO: I was born in China, but our
4 family's in Virginia. So also from the east coast.

5 PRES. NAPOLITANO: All right. So you made the
6 east-to-west transition?

7 MS. CAO: I did. I did.

8 PRES. NAPOLITANO: Yeah, yeah. Brothers and
9 sisters?

10 MS. CAO: No. Just me.

11 PRES. NAPOLITANO: Just you. Yeah, yeah.
12 Where do you see yourself in five, ten years?

13 MS. CAO: That's a good question. I think I'm
14 still open to a lot of paths. I would really love to
15 work on something closer to a product to, yeah,
16 continue my goal of curing or treating diseases.

17 PRES. NAPOLITANO: Yeah, that's, that's great.
18 Tell us something about yourself that your thesis
19 advisor doesn't know.

20 MS. CAO: What does she not know? I don't
21 know. Well, my thesis advisor's really great and she's
22 watching right now. So yeah, that, that's a really

1 hard question. I think Jessica handled that one really
2 well. Yeah, we, I think we do communicate a lot and
3 she encourages us to, to have good work-life balance.
4 So it's not like I have to say that she can't know that
5 I'm ever leaving the lab or anything like that.

6 PRES. NAPOLITANO: Yeah. What do you like to
7 do in your spare time?

8 MS. CAO: In my spare time I think living in
9 the Bay area, it's real easy to have a lot of outdoor
10 opportunities. I love going hiking and camping. I've
11 also taken up aerial silks. I'm trying my hardest on
12 Sundays. But I don't think circus is really a viable
13 profession for me. Far better, so far better at this
14 stuff.

15 PRES. NAPOLITANO: So you like doing the
16 trapeze thing or...

17 MS. CAO: We have a trapezist, but mostly it's
18 the silks. So there's two fabrics hanging from the
19 ceiling and you do certain wraps and inversions. So
20 it's really fun.

21 PRES. NAPOLITANO: Whoa.

22 MS. CAO: I'm not very good at it.

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1 PRES. NAPOLITANO: So I'm going to ask you the
2 same question I asked Jessica and I want you to -- and
3 I'm not going to ask the same question to all of you.
4 Okay. You know. Don't be thinking ahead too much.
5 But you're hosting a dinner party and you can have
6 three guests alive or dead. Who would you invite to
7 your dinner party?

8 MS. CAO: I mean I think a, I think a dinner
9 party's a great idea. If you'd like to come, Pres.
10 Napolitano, welcome, welcome to bring your family.
11 Have some dinner, yeah.

12 PRES. NAPOLITANO: So that's one.

13 MS. CAO: Okay. You want to plus two? Yeah.
14 So who else would like to come? I think we have
15 (inaudible).

16 PRES. NAPOLITANO: No. No, no, no. You're
17 not getting out that easily. Round at the table.

18 MS. CAO: Okay. Round out the table. So I'd
19 love for you to attend.

20 PRES. NAPOLITANO: I accept.

21 MS. CAO: Excellent, excellent. One of my
22 role models is my engineering professor from undergrad,

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1 Dr. Dana Alzi (ph). He is a really fun person to talk
2 to. He's extremely creative. So I would really love
3 for him to be there as well. And lastly, I have a lot
4 of admiration for my circus, my like silks instructor.
5 I think she's very different than the other guests, but
6 I think that I just love her outlook on life. She's
7 always down to try anything. So I think she'd be a
8 great guest to have as well.

9 PRES. NAPOLITANO: Oh, that's, that sounds
10 great and maybe I can learn how to do silks too.

11 MS. CAO: Great. Yeah.

12 PRES. NAPOLITANO: All right. Thank you very
13 much.

14 MS. CAO: Thank you so much.

15 PRES. NAPOLITANO: So please welcome to the
16 stage our third contestant, Alana Ogata from UC Irvine.

17 MS. OGATA: Last Thanksgiving my uncle had a
18 sudden pain in his side. We thought he just had too
19 much turkey. But when he went to the doctor's office,
20 he was diagnosed with stage 4 kidney cancer and began
21 treatment immediately. We've come a long way in the
22 battle against cancer. There's huge advances in

1 treatments that give us a lot of hope, and yet all too
2 often we hear stories of an unexpected diagnosis that
3 comes too late when these treatment are no longer
4 effective.

5 And I believe this is because today cancer
6 testing only takes place in a doctor's office and
7 unless you have a painful symptom, many of us don't
8 have the time or money to go. As a result, we don't
9 get routinely tested for cancer, which is the best way
10 to get an early diagnosis.

11 The earlier you catch cancer the more curable
12 it is and that's why I'm developing a technology that
13 will make early cancer detection available to everyone.
14 And at UCI we're working hard on a cancer censor that
15 you can use at home for a personal diagnosis. And it
16 works by detecting proteins.

17 Proteins are naturally found in your urine,
18 but when a cancer tumor is present even in the early
19 stages, your body responds by producing an excess
20 amount of protein. As an analogy, if protein are fish
21 and your urine sample is a lake, too many fish could
22 mean you have cancer. Our challenge is to accurately

1 count the number of fish in a given lake and we've
2 designed an electronic sensor to do just that.

3 This sensor is composed of a conductive
4 polymer material that can catch proteins. So when it's
5 tested against an unknown sample, it'll produce a
6 protein count for you and the resulting electronic
7 signal can distinguish between someone who's healthy or
8 just someone who's at risk for cancer.

9 Now there are specific proteins that
10 correspond to the different types of cancer. For example,
11 too much salmon in a lake can mean you have prostate
12 cancer, too much trout can mean breast cancer. Our
13 first prototype is for bladder cancer, but the ultimate
14 goal is to have a single chip with many sensors to
15 detect different proteins so you can be tested for all
16 types of cancer simultaneously.

17 And in order to get this product into your
18 hands, I'm continuously improving the device to be
19 small, simple, and fast. Here's an image of my current
20 design. It's about the size of a penny, inexpensive to
21 make, and the electronic signal can go straight to your
22 smart phone. From the comfort of your home, you could

1 take the test and get results within minutes.

2 This technology wasn't available in time to
3 save my uncle, but with more research we can give
4 everyone the power of a routine cancer test. We can
5 catch cancer early and we can beat it every time.

6 Thank you.

7 PRES. NAPOLITANO: Thank you, Alana. Okay.
8 So when did you first get the idea that you would go
9 into this type of research?

10 MS. OGATA: I didn't plan on it at all going
11 into graduate school. I had a wonderful undergraduate
12 advisor who was doing solar cell research and I was
13 positive that's what I wanted to do. So I went to grad
14 school looking for any lab doing solar fuel research
15 and I ran into Reg Penner, who's my professor now. And
16 he told me this project and he sold me on it. And I've
17 been doing it ever since. Yeah.

18 PRES. NAPOLITANO: Yeah. That's great. And,
19 and where, where do you see yourself in five, ten
20 years?

21 MS. OGATA: Out of graduate school. And I'm
22 not sure I'm looking -- I would like to look for a job

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1 -- I think entrepreneurship's such an exciting time
2 right now. They have incubators. They have all these
3 things to help startups. So that's kind of where I see
4 myself.

5 PRES. NAPOLITANO: Right.

6 MS. OGATA: In five years.

7 PRES. NAPOLITANO: Right. Getting into that
8 entrepreneurial ecosystem.

9 MS. OGATA: Yeah.

10 PRES. NAPOLITANO: Yeah, yeah.

11 MS. OGATA: It's exciting.

12 PRES. NAPOLITANO: Yeah, it is. Where'd you
13 grow up?

14 MS. OGATA: I've from the Virginia area also.
15 I'm right outside Washington, DC and I've pretty much
16 lived there my whole life. There was like a three-year
17 period where I lived in Manila in the Philippines.

18 PRES. NAPOLITANO: Uh-huh.

19 MS. OGATA: But, yeah, east coast.

20 PRES. NAPOLITANO: Yeah. So how did you make
21 your way to California?

22 MS. OGATA: My research advisor in college

1 suggested graduate school and I wanted to try out the
2 west coast and west coast also has really great
3 schools. So I'm pretty much all UC applications.

4 PRES. NAPOLITANO: Good choice.

5 MS. OGATA: The weather's nice, yeah.

6 PRES. NAPOLITANO: Yeah, yeah.

7 MS. OGATA: So.

8 PRES. NAPOLITANO: Now what do you like to do
9 in your spare time?

10 MS. OGATA: I really like cooking on a daily
11 basis.

12 PRES. NAPOLITANO: Uh-huh. Well, we may have
13 a dinner party question here.

14 MS. OGATA: Yeah, I love cooking. If I have
15 time to cook a proper meal, that's just the best thing
16 for me. And, and fitness. Yeah. I'm a fitness
17 instructor. So --

18 PRES. NAPOLITANO: You do like Pilates or --

19 MS. OGATA: I do. That's a good guess. Yeah,
20 I do Pilates and Zumba. So.

21 PRES. NAPOLITANO: I've never actually figured
22 out Zumba, but I know that, you know --

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1 MS. OGATA: I'm sure -- everyone can do it.

2 Yeah.

3 PRES. NAPOLITANO: We can get everybody in
4 here to do it maybe. No, no, we're not going to do
5 that. Just chill down. Okay. So, since you do like
6 to cook and you like to make a proper meal, I will give
7 you the dinner party question. So you have a table
8 with three guests. Who would you like to have? And
9 they could be alive or dead.

10 MS. OGATA: Okay. And I admit I've sort of
11 thought about it while sitting down.

12 PRES. NAPOLITANO: Yeah, yeah. So unfair
13 advantage.

14 MS. OGATA: But my three grandparents who are
15 not alive anymore. I was kind of young. You know, I
16 never really got to talk to them and not until you're
17 older you realize you could have learned a lot.

18 PRES. NAPOLITANO: Yeah.

19 MS. OGATA: So I have three grandparents I
20 would bring back.

21 PRES. NAPOLITANO: That would be, that would
22 be great. And, you know, as you are doing your work

1 and doing your research and spending a lot of time in
2 the lab, I assume, do you have a favorite snack food?
3 You know, how do you fuel up when you're there?

4 MS. OGATA: Oh, man. These questions. Well,
5 you don't -- you can't eat in the lab. So there's a
6 lot of safety stuff. So, you know, I'm dehydrated and
7 hungry a lot of the time because once you're in there
8 you can't eat or drink anything. My favorite snack is
9 probably french fries. We have this terrible
10 cafeteria, but they have, you know, cheap french fries.
11 So, yeah, we'll go over there.

12 PRES. NAPOLITANO: You know what? I love them
13 too. I like -- I got, I got to tell you I still think
14 McDonald's french fries are the best.

15 MS. OGATA: Yep.

16 PRES. NAPOLITANO: So that is, that's
17 shameful. I'm shameless, but, you know, its there.

18 MS. OGATA: It's good, yeah.

19 PRES. NAPOLITANO: Yeah. It's good. So thank
20 you for much.

21 MS. OGATA: Thank you.

22 PRES. NAPOLITANO: Good luck. I'd like to

1 welcome to the stage our fourth contestant, Tooka

2 Zokaie from US Davis. Tooka.

3 MS. ZOKAIE: Let's say you were to wake up one

4 morning and you were in pain. I'll be more specific.

5 It's part of your digestive system. You want to call

6 your usual physician, but you know they won't be able

7 to help you for they don't have the proper knowledge.

8 The options you have are too expensive and insurance

9 won't cover the type of doctor you need to see.

10 And if I were to tell you I can see this part

11 of your digestive system right now, would you believe

12 me? For those of you grinning in the room, you may be

13 showing me more than you realize. You can say that is

14 the mouth of the problem, access to oral health.

15 In modern healthcare, the human body is mainly

16 maintained by two people, the individual themselves and

17 their doctor. When someone has access to a primary

18 care physician, they have their head, eyes, ears, nose,

19 and throat checked. But something was skipped in this

20 screening that can show if someone has diabetes, an

21 eating disorder, or needs HIV testing. This is the

22 oral cavity, which is usually saved for dentists to

1 address and is not a medical doctor's concern.

2 But a plethora of diseases can be detected
3 from regular oral cavity screening. Even if a
4 physician wanted to check for dental-related issues,
5 they currently lack the proper training to do so. Now
6 90% of American have access to a physician with their
7 medical insurance, but 40% lack dental coverage. My
8 research aims to bridge the gap between medical and
9 dental care by incorporating the oral cavity into the
10 primary care screening.

11 Now my research was to design the
12 interprofessional training which would allow a concrete
13 way for physicians to help patients who typically do
14 not have access to dental care still be protected from
15 oral cancer, infections, tooth decay, and more.

16 Now creating an education model is essential
17 in training professional students to prepare them for
18 their work, technical training. The goal is not to
19 make physician students bite off more than they can
20 chew, but to have enough information to swallow. With
21 this new model, more patients can access basic oral
22 healthcare and education regardless of having dental

1 insurance.

2 Now that's something to smile about. Thank
3 you. I can go on and on. I love hobbies and just
4 trying new things.

5 PRES. NAPOLITANO: Yeah. So tell us also
6 something about yourself that your thesis advisor
7 doesn't know. What's a Tooka secret?

8 MS. ZOKAIE: A Tooka secret? I am a Yelp
9 Elite foodie. So I don't think he knows because, you
10 know, we're in oral health and, you know, good eating
11 and staying healthy, dietary counseling, but I don't
12 think he knows how much I like to explore the
13 Sacramento/San Francisco food scene.

14 PRES. NAPOLITANO: Yeah, yeah. And it's quite
15 the food scene, isn't it?

16 MS. ZOKAIE: Oh, yeah. Farm to fork.

17 PRES. NAPOLITANO: Yeah, yeah. Yeah. So you
18 were probably scoffing at my mention of McDonald's.

19 MS. ZOKAIE: Oh, no. I'm an In-N-Out girl
20 personally. I am from California after all.

21 PRES. NAPOLITANO: Yeah, yeah.

22 MS. ZOKAIE: So.

1 PRES. NAPOLITANO: I like them too, I must
2 say.

3 MS. ZOKAIE: Yeah.

4 PRES. NAPOLITANO: Too much, I suspect. When
5 did you first begin thinking of yourself as doing grad
6 research like this?

7 MS. ZOKAIE: Yes. So it is funny because I do
8 both this type of grad research and community-based
9 research to make sure information I'm creating and
10 giving to these audiences are appropriate. So I didn't
11 think that I would do both types of research
12 simultaneously and it originally began actually because
13 I was doing nutrition research in my undergraduate work
14 and I really wanted to do something with oral health.

15 I was originally preidental and I saw that
16 there was this gap in access and it was when I came
17 across the School of Nursing iFLOSS program while
18 volunteering at clinics that I fully became immersed in
19 trying to bridge the gap, as I said, and make the mouth
20 back in the body.

21 PRES. NAPOLITANO: Yeah, yeah. So, so do you
22 -- you must work with a lot with dentists in your work

1 then?

2 MS. ZOKAIE: I work a lot with physicians
3 actually. So a lot of my work is with physician
4 assistant students at the Betty Irene Moore School of
5 Nursing. And my PI is actually the physician assistant
6 director for that program. So it's not so much working
7 with dentists as it is making the oral health aspect
8 part of other professional curriculum like nurse
9 practitioners, medical doctors, physician assistants.

10 PRES. NAPOLITANO: Bridging that gap, as you
11 say.

12 MS. ZOKAIE: Yeah.

13 PRES. NAPOLITANO: Yeah.

14 MS. ZOKAIE: Not working with dentists so
15 much.

16 PRES. NAPOLITANO: Right, right. And, and
17 where do you see yourself in five or ten years?

18 MS. ZOKAIE: I really hope to establish this
19 dental integration into medical care. I hope to
20 continue working with that. When I first came into
21 this field five, six years ago, I was actually, I
22 noticed the gap in care. That's one reason I left the

1 predental group. And it was in seeing this change
2 happen so rapidly and awareness of the importance of
3 oral healthcare for whole body health that I hope to
4 continue to be part of this movement and see it change
5 in policy, in HMO groups, and in training.

6 PRES. NAPOLITANO: That's great, great. Okay.
7 Well, congratulations.

8 MS. ZOKAIE: Thank you so much.

9 PRES. NAPOLITANO: Thank you. Now I'd like to
10 welcome our fifth contestant to the stage, Nicholas
11 Root from UC San Diego.

12 MR. ROOT: I study a neurological phenomenon
13 called synesthesia using data from multiple languages.
14 Three minutes, three questions. What is synesthesia?
15 Why multiple languages? Why should you care?

16 When most of you look at the text on this
17 slide, you see it written in blue, but for about 2% of
18 you it all looks like this. Synestheists experience
19 letters of the alphabet as having a consistent color.
20 Now by consistent I mean a few things. Consistent
21 across space. So if your S is purple here, it's purple
22 there. Consistent across time. So if your H is burnt

1 sepia today, it'll be the same burnt sepia in two
2 years.

3 Finally, intriguingly, consistent across
4 people. For example, most synestheists say that the
5 letter A is red. Why? A is for apple and apples are
6 red. A is a warm sound. Red is a warm color. A is
7 the first letter of the alphabet. Red is the first
8 color of the rainbow. You could go on and on and on.

9 Now the problem with thinking like this is
10 that each of these theories makes the same prediction.
11 A is red. And so you can't tell them apart. But then
12 I realized they only make the same prediction in
13 English. In Dutch A is for ape and apes are brown. In
14 Spanish, A sounds like ah. In Korean, A is not the
15 first letter of the alphabet. G is.

16 So I went and found some synestheists and it
17 turns out Dutch A is still red. Spanish A is still
18 red. But Korean G is red. And so by studying
19 synesthesia in multiple languages, I can start figuring
20 out the rules. For example, A is red because it's the
21 first letter of the alphabet. Great. So hopefully
22 some of you just find that interesting. But the rest

1 of you, the rest of you might wonder why we bother
2 studying something that's so rare and basically benign.

3 Well, we can use synesthesia to study
4 something that's much more fundamental. See, in the
5 brain synesthesia happens when the letter area and the
6 color area get wired together by accident and we can
7 use this accident to our advantage. Here's how.

8 Scientists know a great deal about how the
9 color area is organized, in part, because they can
10 study it in monkeys. We know comparatively little
11 about how the letter area is organized, in part because
12 monkeys can't read.

13 Now I can't go sticking an electrode in a
14 human brain, but with synestheists I wouldn't have to.
15 I can just ask them what color their letters are and
16 use that to study the letter area. So in this way
17 synesthesia is a window into the brain that lets us
18 literally see how the brain thinks about reading.
19 Thank you.

20 PRES. NAPOLITANO: All right. Thank you,
21 Nicholas. What first got you interest in synesthesia?

22 MR. ROOT: Well, when I was in high school I

1 read a book that included a chapter on synesthesia and
2 it just so happened that that book is written by my
3 current advisor.

4 PRES. NAPOLITANO: So that's kind of nice. A
5 little parallel.

6 MR. ROOT: Yeah. There was a, there was a
7 nice little meandering root to get there, but --

8 PRES. NAPOLITANO: Yeah.

9 MR. ROOT: Yeah.

10 PRES. NAPOLITANO: Yeah. So did you, does
11 your advisor know that his book inspired you to get
12 into this research?

13 MR. ROOT: He did after I was asked that
14 question at the UC finals of Grad Slam. But before
15 that, he did not.

16 PRES. NAPOLITANO: So news for him.

17 MR. ROOT: Yeah.

18 PRES. NAPOLITANO: So what else would be news
19 for him about you? What, what doesn't he know about
20 you that --

21 MR. ROOT: He, I sometimes do impersonations
22 of him when I, when I lecture for him in his class

1 sometimes.

2 PRES. NAPOLITANO: So can you give us a
3 sample?

4 MR. ROOT: No, I cannot.

5 PRES. NAPOLITANO: Then the whole audience can
6 enjoy it.

7 MR. ROOT: Take brain damage and mental
8 function in UCSD and maybe you'll get to see it.

9 PRES. NAPOLITANO: And where do you see
10 yourself in five or ten years?

11 MR. ROOT: I would really like to teach. I, I
12 like nothing more than seeing students' eyes looking
13 and it's nice to, to know that people can actually come
14 out of class and be excited if you try hard.

15 PRES. NAPOLITANO: Yeah.

16 MR. ROOT: And I, I want to try to do that.

17 PRES. NAPOLITANO: Yeah. What are you helping
18 to teach now?

19 MR. ROOT: So the main class that I teach is
20 called Psychology of Consciousness, that basically just
21 steps through all of the different ways in which people
22 have studied what consciousness is and what visual

1 awareness is. That's my favorite.

2 PRES. NAPOLITANO: Yeah, yeah. So what can
3 you tell us in two sentences or less about the
4 psychology of consciousness?

5 MR. ROOT: There is no one thing
6 consciousness. I went to sleep and I started dreaming,
7 and then I realized that I was dreaming, and then a
8 little bit later I woke up. Like three different
9 things just happened there that we might call
10 consciousness, but they're not the same thing at all.

11 PRES. NAPOLITANO: Yeah, yeah. That was more
12 than two sentences.

13 MR. ROOT: That was like a one long run-on
14 sentence to come.

15 PRES. NAPOLITANO: What do you like to do in
16 your spare time?

17 MR. ROOT: I love to cook.

18 PRES. NAPOLITANO: Okay. We got a lot of
19 chefs --

20 MR. ROOT: It's a potluck, everybody.

21 PRES. NAPOLITANO: Maybe there's some kind of
22 correlative relationship between cooking and being a

1 successful grad student.

2 MR. ROOT: Getting ingredients, right, in
3 order.

4 PRES. NAPOLITANO: Yeah, exactly, exactly.

5 Anyway, thank you. Congratulations.

6 MR. ROOT: Thank you so much.

7 PRES. NAPOLITANO: And now I'd like to welcome
8 our sixth contestant to the stage, Mengya Tao from UC
9 Santa Barbara.

10 MS. TAO: Seventy years ago, seventy years
11 ago, a chemical named PHMG was introduced as ingredient
12 for the humidified disinfectants. Sadly, today over
13 1,000 deaths are suspected to be linked to the use of a
14 chemical in this application. You may wonder why this
15 tragic event happened. Well, it turned out that PHMG
16 has never been tested for inhalation toxicity on
17 animals.

18 You may have also assumed that all of the
19 chemicals in our consumer products are safe, right?
20 Unfortunately, among the 80,000 chemicals on the
21 market, only 1% have been tested because testing a
22 single chemical costs thousands of dollars and requires

1 at least 3 to 12 months. On a multiplied base, by the
2 140 million chemicals registered so far, I don't have
3 to convince you how expensive and time-consuming this
4 would be.

5 So how can we understand the environmental and
6 human health impact of those chemicals more
7 efficiently? This is the question I'm trying to
8 address in my research. My team has spent the past
9 four years tracking this challenge by developing a
10 chemical risk assessment tool. Our tool uses a big
11 data infrastructure and a state of automation learning
12 models.

13 This tool is able to tell you how a chemical
14 will be used, how much will be released to the
15 environment, where it will go over time. How much
16 exposure humans and the ecosystem will receive. And
17 finally, how harmful it will be.

18 With minimal information and in a matter of
19 minutes we're able to evaluate the risk of the chemical
20 to humans and the environment. Currently we're
21 validating our tool against well-studied chemicals.
22 For methyl chloride, a chemical used in paint

1 strippers, our tool indicates that. It poses
2 substantial risks to human health and a long risk to
3 the ecosystem. Although our assessment takes only ten
4 minutes, the results correspond perfectly with a long-
5 term study performed by the US Environmental Protection
6 Agency.

7 And the most exciting to me is that our tool
8 will soon be publically available online. Imagine
9 regulatory agencies using our tool to assess every
10 existing chemical on the market, product manufacturers
11 using our tool to identify safer ingredients, and the
12 chemical industry using our tool at the earliest design
13 phase to avoid hazardous chemical ever entering the
14 market.

15 I hope that this tool makes a tremendous
16 change to our world, our health, and our environment.
17 Thank you so much.

18 PRES. NAPOLITANO: So will you tell us a
19 little bit about yourself? How did you get interested
20 in this topic?

21 MS. TAO: Yes. So I was an environmental
22 science major undergrad. I studied my undergrad in

1 China, Shanghai, Jiao Tong University. So I was
2 trained actually to be engineer. We had basic books on
3 the math, physics, chemistry, and the lab work. And
4 then I, I got a chance to, as an exchange student, to
5 pull into the university when I was a junior.

6 So I was exposed to a more diverse field at
7 that time. I decided to have a graduate school
8 experience in the United States. So, and then apply
9 for grad school (inaudible) management at UCSB. Got
10 accepted and at that moment I got experience, exposed
11 to a variety of topics and I took class called Life
12 Cycle Assessment. That's the story.

13 And two - and my advisor, I have two advisor.
14 One of my advisor, Prof. (inaudible) who taught this
15 class. I was so amazed by the powerful tool to analyze
16 the environmental impact from cradle to grave from raw
17 material extraction to manufacturing, transportation
18 use, and the disposal phase to analyze the pollution
19 emission and the overall impact to the environment and
20 health.

21 And then I apply for his PhD. And then he got
22 this project before I got accepted. And then I've

1 since then study on the project for the past four
2 years.

3 PRES. NAPOLITANO: Oh, that's great. And, and
4 where do you see yourself in five or ten years?

5 MS. TAO: I really wish I could stay in
6 academia. This is my passion. And also, I think
7 researchers sometimes can be dreamers. So we can do
8 something really applicable to our field. And also, we
9 can build the future world maybe in 10 years or 20
10 years. So I feel my passion lies in academia to do
11 research, but also depend on the opportunity when I
12 graduate.

13 PRES. NAPOLITANO: Yeah.

14 MS. TAO: I'm also open minded to other
15 opportunities.

16 PRES. NAPOLITANO: Yeah, researchers can be
17 dreamers. That's it. That's a great, that's a great
18 kind of motto for this competition actually. What do
19 you like to do in your spare time? If you have any, by
20 the way.

21 MS. TAO: Yes. I'm a little bit workaholic, a
22 little bit. I do work and enjoy my time. So I after

1 all the work, I will join my husband to go to a
2 ballroom class and then we come back, continue working.
3 Or, or I -- Monday and Thursday are ballroom dancing.
4 Tuesday and Wednesday are my ballet dance, which is a
5 totally different category. But just enjoy those one
6 hour, like really relax and then to be away from work
7 and then just enjoy the life.

8 PRES. NAPOLITANO: Yeah. So we've had Zumba,
9 we've had Salsa, now we have ballroom dancing. So, and
10 we have a lot of cooking. So maybe cooking and dancing
11 are correlative to research.

12 MS. TAO: Could party together.

13 PRES. NAPOLITANO: Great, great parties
14 together.

15 MS. TAO: Yeah.

16 PRES. NAPOLITANO: Tell us something about
17 yourself that your thesis advisor doesn't know.

18 MS. TAO: I, yeah, I thought about this
19 question. Yes, I, I kind of a dreamer and daydreamer,
20 honestly. So there was one time one of my advisor is
21 from Mexico. So I pass Aleta's (ph) Taco, is, my
22 advisor told me before like it's a really authentic

1 Mexican food. So that, I drove by the Aleta's Taco,
2 thought about my advisor, and then think about him and
3 then think about my graduation day, those are like
4 pictures. And then he and another advisor, someone
5 they will like hoot (sic) me together. And then they
6 will tell me I did a wonderful job during her PhD and
7 that have so many publications, one nature, one
8 science. That's a dream. Maybe not --

9 PRES. NAPOLITANO: That's a great dream.
10 Congratulations.

11 MS. TAO: Thank you.

12 PRES. NAPOLITANO: So now please join me in
13 welcoming to the stage our seventh contestant, Marisa
14 Stevens from UCLA.

15 MS. STEVENS: Who are you wearing? We hear
16 celebrities being asked this question frequently on the
17 red carpet. While seemingly a superficial inquiry into
18 fashion, a celebrity's response speaks volumes about
19 their style, professional connections, and wealth. And
20 it's not just celebrities with carefully crafted
21 images.

22 People in general are concerned with how they

1 portray themselves, and more importantly, how they are
2 perceived by others. One way we build our social
3 selves is through things, things we own and can display
4 to our peers. Part of our motivation to do this is to
5 construct social identity, and part is to create social
6 competition.

7 I'm sure some of you wear a ring on your left
8 hand to signal that you're married. That's social
9 identity. And maybe on your drive here today, you saw
10 someone behind the wheel of a Tesla while you were in
11 your Prius. That's social competition. Materials help
12 define who we are and who we are not and my research
13 aims to understand how individuals use materiality to
14 construct social identity.

15 But I probably don't study the types of
16 objects you think. I study the funerary materiality of
17 Ancient Egypt. The Egyptians spent a lot of time
18 preparing for death. Their tomb equipment included
19 food and drink, furniture, clothing, jewelry, makeup,
20 statuary, coffins, papyri. While the Egyptians
21 believed that these items were necessary provisions for
22 the afterlife, the interment of such items also acted

1 as a form of social display and competition.

2 Egyptian coffins, for example, were the same
3 as that Prius and Tesla today. They both get you from
4 Point A to Point B whether that's from home to work or
5 from this world to the afterlife. But it's the quality
6 of the transportation that's key to that social
7 competition.

8 My research focuses on funerary papyri like
9 the *Book of the Dead*. Most Egyptologists only study
10 these documents for their religious value, but their
11 social significance is critical for understanding the
12 people behind the papyri. So I studied these documents
13 and recorded the names of over 500 Egyptians, plus
14 details about their families, careers, wealth, and
15 status.

16 My research brought back to life a group of
17 Egyptians who lived 3,000 years ago and demonstrates
18 that they felt the same anxiety and pressure to
19 navigate the social world as we do today. By learning
20 from the past, we as a society are better equipped to
21 understand our own motivations to construct social
22 identity through what we drive, what we buy, and what

1 we wear. So who are you wearing today and why? Thank
2 you.

3 PRES. NAPOLITANO: So I, I have to ask how did
4 you get the idea for this research?

5 MS. STEVENS: I, I was always interested first
6 in ancient Egypt. But then secondly about social
7 identity and social history. I consider myself to be a
8 social historian. And I went to UCLA. My advisor was
9 working with a group of 21st Dynasty coffins and it
10 just so happened that this group of people that own
11 these coffins, about 800 or so individuals, had all of
12 these funerary papyri as well.

13 And so I thought what a great way to truly
14 understand an ancient population on, on the individual
15 level. That rarely happens in the archeological
16 record. And so I was able to really look at these
17 individuals, learn their names, understand something
18 about them, and I think that's really important.

19 PRES. NAPOLITANO: Yeah, yeah. And, and when
20 did you first get the idea that you wanted to be a
21 social historian?

22 MS. STEVENS: I've always had one foot in the

1 humanities and one foot in the social sciences. It
2 seems with my education as an undergrad I double
3 majored in history and sociology. And the two I think
4 really complement one another. So I've, I've always
5 sort of straddled both fields and I think that's really
6 important. I think the more you can learn
7 interdisciplinary, the better.

8 PRES. NAPOLITANO: Yeah, yeah. And, and so
9 how do you construct your social identity? Like what
10 do you shop for?

11 MS. STEVENS: What do I shop for? I, you know
12 I, I would have to say, so one interesting thing that I
13 shop for a lot are concert t-shirts. I love music. I
14 love going to concerts and I always get a concert t-
15 shirt every concert I go to. I have this collection,
16 right? And so I think that really speaks to my
17 identity about how much I love music and, you know, I,
18 I enjoy going to these places and it creates a nice
19 memory of them.

20 PRES. NAPOLITANO: Mm-hm. And, and you like
21 going to concerts. What else do you like doing in your
22 spare time?

1 MS. STEVENS: Cooking.

2 PRES. NAPOLITANO: All right.

3 MS. STEVENS: I do.

4 PRES. NAPOLITANO: Cooking is the way today so
5 far.

6 MS. STEVENS: I, I do. I really, I love to
7 cook. I love to listen to music, you know, all those
8 things.

9 PRES. NAPOLITANO: Yeah, yeah. So I'm going
10 to bring back the dinner party question. So you have a
11 dinner party, you can invite three people alive or
12 dead. You obviously are dealing with the dead. So you
13 might have some ideas there. But who would you include
14 at your dinner party?

15 MS. STEVENS: So, so I thought about this
16 question obviously as we're over there taking notes,
17 right, about what you're asking. I love the Beatles
18 and I want all four and you're telling me three. And I
19 can't pick. I refuse. I refuse to pick. I can't. So
20 I don't know. One of them will have to sit on my lap
21 or all have to stand. I, I don't know, but I, I can't,
22 I can't pick.

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1 PRES. NAPOLITANO: You know, when I was, when
2 I was a little girl -- I love the Beatles too and, and,
3 and they used to sell Beatles bubblegum, like baseball
4 cards, but they had cards for the Beatles inside and I
5 had quite the collection. I don't know whatever
6 happened to it, but you know, it was there. But
7 anyway, congratulations.

8 MS. STEVENS: Thank you so much.

9 PRES. NAPOLITANO: All right. Join me in
10 welcoming to the stage Joe Charbonnet from UC Berkeley.

11 MR. CHARBONNET: This year like most years, a
12 huge winter storm hit the Sun Valley in Los Angeles and
13 it looked like this. There are no storm sewers in that
14 area. So every time there's a big rain, the streets
15 turn into rivers. City officials rush to direct this
16 water out into the LA river and then to the sea.
17 Especially for communities of color, storm water is a
18 huge nuisance.

19 But this problem is really ironic in places
20 like LA where they spend millions of dollars importing
21 their water from across the state and country. And
22 this irony isn't lost on our city leaders with water

1 shortages all across the west, fresh water literally
2 falling from the sky starts to look pretty darn good.

3 But there's a problem. Storm water is
4 contaminated with herbicides and pesticides, metals
5 from our brake pads, and yes, even dog poop. That's
6 why I've invented Man-Sand Filtration Media. Now it's
7 not called Man-Sand because it refuses to stop and ask
8 for directions, but because it's made with a naturally
9 occurring mineral called manganese oxide that can
10 actually remove contamination from water.

11 You see, 30 or 40 years ago soil scientists
12 figured out the manganese oxides can trap and destroy
13 certain chemicals, but I've done experiments to develop
14 a media that can actually remove pollution from water.
15 You see by coating sand with manganese oxide, it's like
16 giving it super powers. Endocrine disruptors like BPA
17 are oxidized and toxic metals like lead are absorbed
18 like a sponge.

19 And these incredible abilities are
20 rechargeable, meaning once the Man-Sand reaches the end
21 of its life, it can actually be regenerated without
22 having to be dug up, saving cities tons of money.

1 All across the west cities are building these
2 aquifer recharge basins to capture and save storm
3 water. Now usually these systems are filled with plain
4 old sand to filter the water. But Man-Sand could fit
5 into these systems just like the conventional sand and
6 use cutting edge chemistry to remove the pollution and
7 make this water into a viable local resource. This
8 research is culminating with field sites researching
9 along side utilities from Sonoma all the way to, yes,
10 the Sun Valley.

11 Man-Sand will help to liberate places like
12 Southern California from imported water which uses
13 5,000 gigawatt hours of energy each year as it's pumped
14 up and over a mountain range. By turning what was
15 pollution into a natural low-cost solution, Man-Sand
16 will help cities save their rain for a sunny day.

17 PRES. NAPOLITANO: All right. So now comes
18 the, the really tough part, you know, the Q&A. Where
19 did you get the idea for Man-Sand?

20 MR. CHARBONNET: Yeah. So it's something that
21 the soil scientists recognized for a long time and they
22 said, oh, isn't this interesting for the cycling of

1 transition metals in soils and no one had really
2 thought to say, wait, we can use this as an engineered
3 system as well. And so I'm fortunate to work with a
4 great advisor and we sort of looked at the data and
5 said, wow, there's real potential here.

6 PRES. NAPOLITANO: Yeah, yeah. And you work
7 closely with your advisor, I assume?

8 MR. CHARBONNET: I do, yeah.

9 PRES. NAPOLITANO: Uh-huh. And so tell us
10 something about yourself he doesn't know, he or she
11 doesn't know.

12 MR. CHARBONNET: I would say that he doesn't
13 have to wear the hat. I know that he's going bald.

14 PRES. NAPOLITANO: Oh, okay. Now it's out
15 online. So, yeah. Our former graduate student. Where
16 do you see yourself in five or ten years?

17 MR. CHARBONNET: I'd like to be a professor,
18 maybe a university administrator, maybe, you know,
19 president of a big university. I don't have any
20 connections.

21 PRES. NAPOLITANO: There are days when I would
22 trade you, yeah, yeah. And, and, you know, when you

1 were growing up, did you see yourself going into
2 environmental engineering and research?

3 MR. CHARBONNET: Yeah, yeah, yeah. My mom is
4 a science teacher and so I grew up in a household where
5 science was just inculcated in us in Florida. And so
6 she got us, I know, one time into insect collecting,
7 like really hardcore pinning them up with the Latin
8 names and all of that stuff. And one time we were
9 being babysat and a Palmetto bug got into the house,
10 which I don't know if you know what a Palmetto bug is.
11 It's like a Florida cockroach. It's like --

12 PRES. NAPOLITANO: Yeah, they're big, right?

13 MR. CHARBONNET: If a cockroach snorted bath
14 salts, that's a Palmetto bug, right? And so the
15 babysitter is running around trying to squash the
16 Palmetto bug and my sister and I have our butterfly
17 nets out and we're like, no, you have to preserve
18 sample integrity. From a young age we were just
19 trained to have this appreciation for science and
20 inquiry in the natural world around us.

21 PRES. NAPOLITANO: You got to tell us what
22 happened with the Palmetto bug. Did you save it?

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1 MR. CHARBONNET: It, it made a wonderful
2 addition to the collection.

3 PRES. NAPOLITANO: What do you like to do in
4 your spare time?

5 MR. CHARBONNET: I actually like to brew beer.
6 So you all bring the food and I'll bring the drinks.

7 PRES. NAPOLITANO: Okay. I think we're
8 putting together a pretty good dinner party here.
9 Yeah. You brew it at home?

10 MR. CHARBONNET: I do, yeah.

11 PRES. NAPOLITANO: Yeah, yeah. So is it any
12 good?

13 MR. CHARBONNET: Oh, yeah. I think it's
14 really funny. People will like think, oh, this is
15 homemade beer. What is it going to taste like and then
16 they drink it and it tastes like really good beer, so.

17 PRES. NAPOLITANO: Yeah, yeah. Have you named
18 your beer? Is it a --

19 MR. CHARBONNET: Yeah, I try to give them, you
20 know, seasonal funny names.

21 PRES. NAPOLITANO: Uh-huh, uh-huh, like --

22 MR. CHARBONNET: Well, see, I shouldn't have

1 said that 'cause now you put me on the spot here.
2 Let's see. So we, we made a Norse style of beer. So
3 we named it after Harald Bluetooth who was the guy that
4 united the Norse countries and who Bluetooth technology
5 is named after. So then we could put the Bluetooth
6 symbol on all of our labels for that beer.

7 PRES. NAPOLITANO: Very, very, very cool. All
8 right. We'll send you back to brew some more beer.

9 MR. CHARBONNET: Thank you very much.

10 PRES. NAPOLITANO: Thank you. Now welcome to
11 the stage our ninth contestant, Portia Mira from UC
12 Merced.

13 MS. MIRA: Many of you may wonder why
14 antibiotic resistance is something you should worry
15 about. I'll give you four reasons why you should.
16 First, antibiotic resistance is a worldwide problem.
17 Currently twice as many people die from antibiotic
18 resistant infections as HIV. And if this continues,
19 more people will die from antibiotic resistant
20 infections than from cancer by the year 2050.

21 Second, antibiotic resistance is expensive.
22 The United States spends over 20 billion dollars

1 annually in excess healthcare costs associated with
2 antibiotic resistant infections.

3 Third, antibiotics are the most common
4 unnecessarily prescribed drug. In fact, up to 50% of
5 them are not even needed.

6 And last, antibiotics are not only given to
7 humans, but to livestock as well. And this is to
8 promote growth and to prevent disease, but resistant
9 bacteria can remain in the meat of these animals if
10 it's not cooked properly. So it's no wonder why
11 antibiotic resistance is such a big deal.

12 So what can we do about this? Well, we can't
13 depend on the development of new antibiotics because
14 bacteria have proven that they will become resistant to
15 anything that we throw in their path. There's also
16 this other idea of antibiotic cycling, which is a lot
17 like crop rotation in which hospitals will rotate
18 through antibiotics over time.

19 For example, they'll use antibiotic A for one
20 month, rotate to antibiotic B for one month, and back
21 to antibiotic A. And the goal of antibiotic cycling is
22 that resistance to each antibiotic will decrease over

1 time.

2 Previously hospitals have randomly selected
3 the antibiotics in which they cycle and this has not
4 been effective. But what I have been able to show
5 through my research is that antibiotic cycling still
6 has potential if only we cycle through antibiotics that
7 are structurally similar.

8 And so what I've done is measured bacterial
9 growth across multiple antibiotics, and using these
10 data with mathematical models I've identified treatment
11 plans throughout 16 resistant strains of *E. coli* with a
12 60 to 100% probability of returning to wild type, which
13 is a more treatable type. So what this means is that
14 we can use the antibiotics that we already have to push
15 bacteria in reverse making the infections they cause
16 more treatable.

17 And this is the best part. In collaboration
18 with Dignity Health in Merced and Anna Siegal at UC
19 Berkeley, using my data we have shown that resistance
20 to two antibiotics has significantly decreased since
21 2013.

22 So is there hope? Well, based on my results I

1 definitely believe there is. And by using the
2 antibiotics that we already have, we can work at
3 reversing antibiotic resistance. Thank you.

4 PRES. NAPOLITANO: X marks the spot. Yeah.

5 MS. MIRA: Yes. Yes. Thank you.

6 PRES. NAPOLITANO: All right. That's great.

7 MS. MIRA: Yes.

8 PRES. NAPOLITANO: So where did you first get
9 interested in studying antibiotic resistance?

10 MS. MIRA: Well, I've always been interested
11 in the medical field and I've always loved learning and
12 in my last year as a graduate, undergraduate, I didn't
13 know what I was going to do with my life. I'd say it
14 was a midlife crisis, but I was only 24, so I can't say
15 it was a midlife crisis. And --

16 PRES. NAPOLITANO: A young life crisis.

17 MS. MIRA: There you go. Yes. And so I was
18 coincidentally taking a class, Mathematical Modeling
19 for Biology, with the dean of natural sciences at the
20 time, or MESA, and he had asked me what I was doing
21 after I graduated, and I said I don't know and he goes
22 have you thought about grad school. And I look at him

1 and I'm like what is grad school. I don't know what it
2 is.

3 And so he explained it to me and he said that
4 he had an advisor that was looking for an undergraduate
5 researcher in data, to analyze data, and he introduced
6 me to my advisor, Miriam Barlow, and I just fell in
7 love with the research because antibiotic resistance
8 and any type of bacterial infections are very relative
9 in the clinic. And so I just feel like this is the
10 perfect place for me because it is kind of behind-the-
11 scenes-work with things that are really prevalent in
12 the hospital.

13 PRES. NAPOLITANO: Yeah, yeah. So where, with
14 a real-world impact.

15 MS. MIRA: Exactly. Yeah. Yeah.

16 PRES. NAPOLITANO: Yeah. Yeah. So I've asked
17 this of the others, but I'm curious. Where do you see
18 yourself in five or ten years?

19 MS. MIRA: So I just defended my dissertation
20 exactly one week ago.

21 PRES. NAPOLITANO: Oh, great.

22 MS. MIRA: So I, I am -- thank you. So I've

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1 got a postdoc lined up at UCLA with Pamela Yeh. And so
2 in five years, in five years I hope -- well, maybe five
3 or ten, between that, that time frame, I hope to be a
4 faculty with my student up here on the Grad Slam stage
5 and me back there rooting for them.

6 PRES. NAPOLITANO: That's great. What do you
7 like to do in your spare time?

8 MS. MIRA: Spare what?

9 PRES. NAPOLITANO: Spare --

10 MS. MIRA: Okay. So with three children at
11 home, I don't have spare time at all.

12 PRES. NAPOLITANO: Oh, my.

13 MS. MIRA: And if I do have a moment to
14 myself, I usually just fall asleep and my husband can
15 attest to that. Outside of that, I mean outside of
16 playing with my kids and, I mean, vacation time, we
17 like going camping, just staying at home and relaxing
18 really.

19 PRES. NAPOLITANO: How old are your kids?

20 MS. MIRA: Oh, I've got a seven-year-old.

21 I've got a two-and-a-half-year-old. And the newest
22 member of our family is my nephew, who is seven months.

1 PRES. NAPOLITANO: Wow, wow.

2 MS. MIRA: Yeah.

3 PRES. NAPOLITANO: So that is quite a bit.

4 MS. MIRA: I don't, I don't, yeah.

5 PRES. NAPOLITANO: So spare time is kind of a

6 --

7 MS. MIRA: It, it doesn't exist in my life.

8 PRES. NAPOLITANO: Not -- doesn't exist.

9 MS. MIRA: No.

10 PRES. NAPOLITANO: No, no. Tell us something
11 about yourself that your thesis advisor doesn't know.

12 MS. MIRA: Okay. I tried to cheat and I
13 texted her and I asked her what do you not know about
14 me because we -- she is absolutely amazing. We're so
15 close. But because I have kids at home, maybe she
16 doesn't know how much time it takes to try to get a
17 two-and-a-half-year-old to eat his dinner. And so
18 every night we're struggling with him trying to bribe
19 him with everything we can to get him to eat his
20 dinner. My favorite color? Green. Is there no one
21 else?

22 PRES. NAPOLITANO: Well, you know what? We'll

1 take that and wish you all the best.

2 MS. MIRA: Yeah. Thank you.

3 PRES. NAPOLITANO: Congratulations on your
4 dissertation defense.

5 MS. MIRA: Thank you. I appreciate it.

6 PRES. NAPOLITANO: And our tenth and final
7 contestant, welcome to the stage Kimberley Kanani
8 Bitterwolf from UC Santa Cruz.

9 MS. KANANI BITTERWOLF: So how's the weather?
10 Yeah, that's probably one of the most boring questions
11 in the world. That is rather apt because if it weren't
12 for us humans burning fossil fuels left and right, this
13 would actually be a truly boring period of time for our
14 planet. See, earth has seen some crazy stuff.

15 Like there was this one time when all of
16 Siberia became covered in mega volcanoes and they
17 plunged our planet into a nuclear winter. And then a
18 few million years later India went and did the exact
19 same thing. Or there was this other time when frozen
20 methane from deep within our oceans started leaking up
21 into the atmosphere increasing our global temperatures
22 and acidifying our oceans. And I hope that last part

1 sounds familiar.

2 But the thing is, is that we would do very
3 well to learn from events like these in our planet's
4 past. The question, though, is how do you all know I
5 didn't just make those up? Well, if you were so
6 inclined you could read all about those events and more
7 in earth's underwater libraries. These are called
8 sediment cores where you have the youngest sediment at
9 the top and the oldest sediment at the bottom. And
10 chronicled away in these layers are all of earth's
11 major events over the past millions and millions of
12 years.

13 The thing, though, is they're not written in
14 English and they're not written in Spanish. No,
15 they're not really written in any language that we
16 generally speak on a day-to-day. No. Instead they're
17 written down with chemistry, specifically the chemistry
18 of salts. But I'm not talking about boring table salt,
19 sodium. No.

20 Our planet's history is much better recorded
21 with rare salts such as the five that I studied for my
22 Ph.D. thesis at UC Santa Cruz. Specifically, lithium,

1 magnesium, calcium, strontium, and barium. I studied
2 the behavior of these five salts and the input that
3 make our oceans salty in the first place, namely rivers
4 and groundwater discharge.

5 Now rivers we all know and love these, right?
6 We raft down them. They eventually lead out to the
7 ocean. Groundwater, though, that one is a tad more
8 cryptic. See, we know that we pump it out of the
9 ground to drink as we heard about earlier, but the
10 thing is, is that it too similarly to rivers flows
11 downhill, but just through the ground and leaks out
12 into the ocean. And both of these inputs translate the
13 happenings of our continents and our atmosphere into
14 chemical signatures, and they translate them out to the
15 ocean where they're deposited for us to read all about
16 for millions of years.

17 So in a nutshell I study the chemistry of
18 rivers and groundwater now to improve our
19 reconstructions of our planet's past and better our
20 forecast for earth's climatic future. Thank you.

21 PRES. NAPOLITANO: So what first got you
22 interested in studying these, these different kinds of

1 salts?

2 MS. KANINI BITTERWOLF: Actually it started
3 off in environmental science because my mom works at a
4 botanical garden and I wanted to spend time with her on
5 the weekend. So I would go into work with her and I
6 started working with different ecosystems in the
7 natural environment back home in Hawaii and it
8 gradually turned into environmental chemistry.

9 PRES. NAPOLITANO: Oh, wow. And, and yeah,
10 in, in your research what has been the most unusual or
11 unexpected thing that you've discovered?

12 MS. KANANI BITTERWOLF: I've been really
13 surprised with how kind everybody around the world has
14 been. Part of my research requires me to cold e-mail
15 people in all countries around the world and ask them
16 for groundwater samples, which is a very intimidating
17 thing for me to do, but everybody has been so warm and
18 welcoming to this random graduate student e-mailing
19 them saying please can I have a sample of your
20 groundwater. And they've been so kind so I --

21 PRES. NAPOLITANO: I've, I've never gotten an
22 e-mail like that. Yeah.

1 MS. KANANI BITTERWOLF: I'll ask you for some
2 San Francisco water.

3 PRES. NAPOLITANO: Yeah. And where do you see
4 yourself in five or ten years?

5 MS. KANANI BITTERWOLF: Well, I would love to
6 be back home on Kauai working as an environmental
7 educator, specifically Director of Education at the
8 National Tropical Botanical Gardens would be wonderful,
9 or a professor at Kauai Community College since we
10 don't have a four-year university on my home island.
11 So I would really like to be that resource.

12 PRES. NAPOLITANO: Yeah. Yeah. So be an
13 educator of some sort.

14 MS. KANANI BITTERWOLF: Definitely.

15 PRES. NAPOLITANO: Yeah. So what about you do
16 you, would, would your thesis advisor find surprising?

17 MS. KANANI BITTERWOLF: I don't think that she
18 knows that I used to work at an Italian deli. And I
19 used to make sandwiches using the garlic bread instead
20 of the normal bread 'cause I thought it tasted better.

21 PRES. NAPOLITANO: You know, with that thought
22 I think we're all getting close to lunch and getting

1 hungry. So, and with all our cooks among the
2 contestants and our dancers and just our great
3 researchers, so thank you. Congratulations.

4 MS. KANANI BITTERWOLF: Yeah.

5 PRES. NAPOLITANO: All right. So that
6 concludes the contestant presentations. Let's give it
7 up for them. They were all terrific. All right. Go
8 Grad Slam. So my part of the program is over and I'm
9 going to turn the podium over to Provost Michael Brown
10 to get us to the tape. Michael.

11 MR. BROWN: Thank you, Pres. Napolitano. And
12 thanks to our student competitors for their outstanding
13 presentations. They were great, weren't they? Now,
14 well okay. Now on to the awards. We will announce the
15 People's Choice Award, the third-place award, a second-
16 place award, and a grand prize winner who -- and the
17 grand prize winner will receive the Slammy. Yeah, the
18 Slammy.

19 All of the presenters were extremely
20 impressive and so we know this was a difficult task for
21 the judges. And we, we thank everyone who took the
22 time to, to cast a vote, to go online and cast a vote,

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1 and we now can announce the systemwide People's Choice
2 Award.

3 This award -- are, are we ready? Okay. I
4 just wanted, just wanted to check. I tore the
5 envelope. The People's Choice Award for 2018 goes to
6 Mengya Tao from UC Santa Barbara Campus. That is
7 awesome.

8 All right. Now to the third-place award. The
9 third-place award goes to Portia Mira, UC Merced.
10 Awesome. No, no. Thank you. And the second-place
11 award, I hope I'm saying the name right, is to Yiqi
12 Cao, UC San Francisco. I thank you.

13 And now -- I know it's kind of awesome. I'm
14 grabbing the wrong thing. The first-place winner 2018
15 Grad Slam, winner of the Slammy, Joseph Charbonnet, UC
16 Berkeley. Okay. But let's, let's give another hand.
17 They were all exceptional.

18 Now this is the fourth annual Grad, UC Grad
19 Slam and we have a perpetual plaque to award. And this
20 time it goes to Dean Fiona Doyle, UC Berkeley. And,
21 yeah, Dean, Dean, Dean Doyle, come up. Your, your
22 student wants to take a picture with you.

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1 On behalf of Pres. Napolitano and all of us at
2 the Office of the President, we want to thank our
3 wonderful LinkedIn partners for hosting this Grad Slam
4 here at these beautiful downtown San Francisco
5 facilities. Can we give them -- and there is so much
6 that they do to support this event. I mean we had a
7 wonderful repass of the videos and the, and the camera
8 work and, and just making the facilities available to
9 us.

10 We, we, we really so thank you for this and
11 your investment in graduate education at UC. We
12 couldn't ask for better partners and we appreciate all
13 of that work. And I know it's more than one person.
14 It's, it's been many, but thank you.

15 There are far too many people to mention by
16 name, but I do want to acknowledge a few, a few, few
17 others. And they wanted me to make sure I mention
18 these at, at, at LinkedIn. Nicole Isaac, and she, she
19 welcomed us earlier. She had to go, but we, we, we, we
20 thank her.

21 Guy Berger for, for working hard on that
22 voting. Man, that, that was a difficult job. I know

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1 it was. And, and you, Katie Ferrick, thank you so
2 much. You go ahead. Stand, stand up. Yeah, you all.
3 Yeah. Let, let, let them see you. I, I know you don't
4 do this for the honor and the glory even though it
5 belongs to you, but, but, but, but thank you. I, I, I
6 know the, the wonderful team, but thank you.

7 A great big thank you to all of the folks at
8 the University of California, Office of the President
9 for all the time, effort, and energy you have spent on
10 making this event happen and make it such a success.
11 There are many hands, heads, and hearts that have been
12 given to make this work, and as it's been said, you
13 know, it takes a village to do great things. It takes
14 all of us working together.

15 And I do want to thank our marketing
16 communications team. Oh, oh, you -- see, they, they
17 always want to be giving. You, you all look on your
18 chairs. On your chairs there are bags with swag. They
19 want you to have your bag with swag. Your swag bag.
20 So grab your swag bag. Don't leave it here.

21 And also, I want to acknowledge our UC Leads
22 High School students. I failed to make mention to you.

1 Are, are, are you here? UC Leads. UC Leads. All, all
2 you all supporting our, our, our, our scholars, thank
3 you. Yeah. Yeah. That's right. Because you never
4 know get, get every bit of this if you can.

5 But also let me thank our graduate studies
6 dream team. Lissette Limb (ph), where are you? Yes.
7 Lissette, she's in the back there. Sandra Wolf (ph),
8 yes. Pamela Jennings. Oh, yeah. Oh, yeah. They work
9 hard to make this event happen, but I know it's a labor
10 of joy 'cause I can just see it on your faces, so.

11 And I finally want to thank each of you for
12 joining us at this very special event. We appreciate
13 your wonderful support and great energy on behalf of
14 graduate education at UC. We hope that you will take
15 that energy and insight from today and help highlight
16 the importance of -- I, I don't know if everybody fully
17 appreciates what Janet said earlier.

18 This is a research university. Academic
19 graduate education is key to the engine that is the
20 research engine of the university as a source of
21 discoveries. You were getting, we were just getting a,
22 a glimpse of the wonders that come out of the work of

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1 graduate students under the mentorship of their, of, of
2 their, their professors here and they, and we probably
3 could look deeply to -- many of you all are working
4 with undergraduate students, aren't you? And, and
5 involving them in research activities and enriching
6 their lives that way. It is part of what makes UC so
7 very special. So, so take that with you. Don't lose
8 that, and let other people know about it too.

9 I, I thank you. See you next year.

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CERTIFICATE OF TRANSCRIBER

I, Penny Knight, do hereby certify that this transcript was prepared from audio to the best of my ability.

I am neither counsel for, related to, nor employed by any of the parties to this action, nor financially or otherwise interested in the outcome of this action.

6/25/18

Penny Knight
Penny Knight

DATE