

UC San Diego

JACOBS SCHOOL OF ENGINEERING

IDEA ENGINEERING STUDENT CENTER

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INSIDE THIS ISSUE

Scholarship Recipients/4.0 GPA	1
Breakfast with the Deans 2017	2
Transfer Triton Day 2017	3
Empower & RLDC 2017	4
IDEA Scholars to Ph.D.	5
Grad Student Spotlight	6

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2017 Boeing-IDEA Scholarship Recipients

Awarded to select IDEA Scholars for their demonstrated technical experience, academic achievements, extracurricular involvement and commitment to diversity.

EMILY MORENO

Bioengineering

GABRIEL GUTIERREZ

Structural Engineering

LEIGH SENA

Mechanical Engineering

ARIELLE YOO

Bioengineering

JOCELYN LETONA

Aerospace Engineering

VICKIE TRUONG

Aerospace Engineering

MACKENZIE COTTLE

Mechanical Engineering

CHANEL FRAIKIN

Aerospace Engineering

WAY TO GO 4.0!

Please help us congratulate our IDEA Scholars who achieved 4.0 GPAs in Winter 2017 Quarter!

Cyrus Shen

Electrical Engineering, FR

Gabriel Gutierrez

Structural Engineering, FR

Justin Hover

Bioengineering, FR

Harrison Li

Bioengineering, FR

Arielle Yoo

Bioengineering, FR

Minghui Zhao

Electrical Engineering, FR

Derek Wong

Bioengineering, SO

Aparna Rangamani

Computer Science, SO

Cory Wolf

Mechanical Engineering, SO

Karla Aceves

Aerospace Engineering, SO

Vickie Truong

Aerospace Engineering, SO

Valeria Gallardo

Structural Engineering, JR

Stephanie Arteaga

Bioengineering, SR

Jahya Burke

Electrical Engineering, SR

IDEA SPOTLIGHT

The programs and events below aim to increase the number of undergraduate engineering students from historically underrepresented groups and/or who are first generation who will join the Jacobs School of Engineering in Fall 2017.

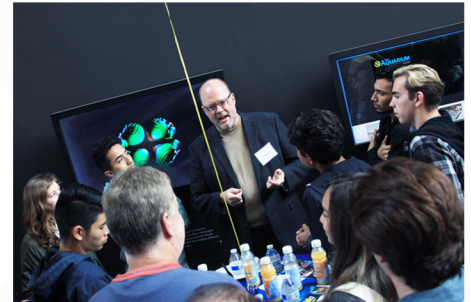
ENGINEERING OVERNIGHT PROGRAM 2017

The number of high school seniors who participated in the 2017 *Engineering Overnight Program* is our highest since the IDEA-track started in 2013, 16% higher than last year. The number of Hosts participating this year is also the highest it's ever been, 23% higher than last year.



BREAKFAST WITH THE DEANS 2017

The number of admitted freshmen who attended the 2017 Breakfast with the Dean event is 2.5x that of our highest attendance since this event started in 2012!



TRITON DAY 2017

Triton Day is an annual campus-wide event in which thousands of newly admitted students and their families attend to explore UC San Diego.



TRANSFER TRITON DAY 2017

Transfer Triton Day is an annual campus-wide event in which thousands of newly admitted transfer students and their families attend to explore UC San Diego. The number of admitted transfer students who attended the *Transfer Breakfast with the Dean* event on Transfer Triton Day is 32% more than last year.



SPOTLIGHT CORNER



JOSE BANUELOS

Structural Engineering, Class of 2016

Hello! I am Jose Banuelos and I was a part of the 2012 cohort of IDEA Scholars, and recently graduated from UCSD with a B.S. in Structural Engineering and minor in Urban Studies & Planning. I want to use my Structural Engineering degree to work on transportation infrastructure projects that help shape a community. I am currently interning at San Diego Association of Governments (SANDAG) as a Systems Engineer and volunteering with Caltrans within their Structure Construction department while looking for a full-time job in Transportation Engineering. At SANDAG, I work on the rail related electrical, signaling, and communication systems for the trolley and at Caltrans I am a part of the team that is working on the San Elijo Lagoon Bridge Project.

EMPOWER & RLDC 2017



This year's annual high school engineering conference by the Society of Hispanic Professional Engineers at UC San Diego, was held in conjunction with the *Regional Leadership Development Conference (RLDC)*. SHPE hosted over 400 local 8th-12th graders, making it the largest conference to date for SHPE! Members from other SHPE chapters all convened to UC San Diego to attend professional workshops and networking events with industry representatives. Congratulations to SHPE for another successful event!



IDEA Scholars: Path to Ph.D.

We celebrate and commend some of our graduating IDEA Scholars who will be embarking on their Ph.D. program in Fall!

Viviana Vela

Structural Engineering

What are your plans after Commencement 2017?

I will be interning for the summer at Lawrence Livermore National Laboratory. Starting August, I will be attending UC Berkeley for my Ph.D. in Civil and Environmental Engineering with a focus in structural engineering.

What advice would you give to underclassmen who may be considering getting involved in research?

I would say definitely try it out and explore for yourself. You will never know if you'll like it unless you try it. I didn't think I would be able to get into research because I felt I didn't know professors well enough, but it is important to know that there are programs out there like McNair or several other summer research programs that help you find research mentors. These programs are good for students wishing to explore research because if you decide research is not for you your research ends with the program, but if you wish to continue you have established a good relationship with your mentor and could continue to do research work during the school year as well.

Joanne Ly

Chemical Engineering

What are your plans after Commencement 2017?

I will be attending UCI's Biomedical Engineering Ph.D. program in Fall 2017.

What advice would you give to underclassmen who may be considering getting involved in research?

Be proactive about looking for your research opportunities and keep your GPA high. I'd like to think most professors here at UCSD are very kind, but it's difficult to say yes to every student that comes their way. Give them a reason to say yes to you besides your interest. This can come in the form of professionalism, skills you've already developed, or even being well informed.

What does the IDEA Engineering Student Center mean to you?

The IDEA Engineering Student Center has been such an amazing resource center for EVERYTHING. I attribute most of my fortunate opportunities and overall success to the IDEA Center. This included job opportunities, scholarships, research opportunities, soft skills, mentorship, and even mental health!

Andrew Chiang

Chemical Engineering

What are your plans after Commencement 2017?

Starting fall of 2017, I will be pursuing a Ph.D. degree in Macromolecular Science and Engineering at University of Michigan, Ann Arbor.

What got you interested in research at UC San Diego?

Research became a passion for me early on freshman year because I had an incredible mentor, Dr. Darren Lipomi, helping me decide what to do for my future. Dr. Lipomi introduced me to scientific research when I was at a time of distress exploring future career options by giving me the privilege to work in his research group. Ever since then, I have discovered that research is about learning innovative, firsthand knowledge. It's been nothing but joy for me to witness history being made everyday through the work that we do.

What does the IDEA Engineering Student Center mean to you?

IDEA Center has provided me incredible opportunities to meet so many researching faculties so that I would have resources to go to at times of confusion in school and career. Without the IDEA Center, I wouldn't have had the amazing experience as a researching student in college.

GRAD STUDENT SPOTLIGHT



Diego Mesa, Ph.D. Candidate
Bioengineering

Diego Mesa, Ph.D. is from the Department of Bioengineering at UC San Diego under the mentorship of Dr. Todd Coleman, and co-Mentor Dr. Christina Chambers in the Department of Pediatrics. Diego has worked extensively with the IDEA Engineering Student Center in many different programs, and designed courses specifically aimed at first year undergraduate minority engineering students. He enjoys working on interesting applications of applied probability and information theory, and focuses on developing novel theoretical and numerical techniques which are scalable. He is particularly interested in applications in fetal/infant health, and applications in the design and implementation of decision support tools in global health.

After his graduation this June, Diego will be an Academic Pathways Postdoctoral Fellow at Vanderbilt University, jointly hosted in the Department of Electrical and Computer Engineering (EECS) and the Department of Biomedical Informatics at Vanderbilt University Medical Center. His focus will be on continuing to develop novel mathematical techniques to aid clinical decision-making.



Dae Kang, Ph.D. Candidate
Bioengineering

Dae Kang, Ph.D. is from the Department of Bioengineering at UC San Diego and graduates in June 2017. He currently conducts clinical engineering research under the mentorship of Dr. Todd Coleman (Department of Bioengineering) and Drs. Robert Owens and Atul Malhotra (Division of Pulmonary, Critical Care, & Sleep Medicine). Working with the IDEA Engineering Student Center, Dae advocates for educational opportunity as a mentor and educator. He focuses on galvanizing student growth by encouraging curiosity, resourcefulness, and applied tinkering. His current work focuses on a two-pronged approach leveraging advances in wearable sensors and clinical analytics for the objective and non-invasive assessment of sleep and sleep disorders.

Following his Ph.D., Dae will undertake applied clinical research as a Postdoctoral Fellow in the UC San Diego Division of Pulmonary, Critical Care, & Sleep Medicine. His long-term research goals are to continue developing and implementing novel engineering tools for elucidating the clinical implications of sleep dynamics, and more broadly to advance continuous health monitoring and healthcare operations.

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