

Bioengineering

Abby Teitgen

Undergraduate Major:

Bioengineering

Undergraduate Institution:

University of Virginia

Current Department/Major:

Bioengineering PhD

Current Research Focus:

Cardiac Biomechanics

Prior Experiences (industry, research, etc):

Industry internship (pharma)

Undergraduate research

Research fellowship in New Zealand

Future Plans:

Academia

Contributions I Can Make to Your Success:

I'm always happy to talk about my experiences with research, internships, applying to grad school etc. and can help you navigate the process!

Fun facts:

I have a puppy named Mila



Kristen Garcia

Undergraduate Major:

Applied Math w/ a minor in Biomedical Engineering

Undergraduate Institution:

Boise State University

Current Department/Major:

PhD in Bioengineering

Current Research Focus:

Mathematical Modeling of the Cardiovascular System

Prior Experiences (industry, research, etc):

Sending small satellites into space, investigating circadian expression in human skin pathways, developing improvements to the security of the artificial pancreas device, and working in the concussion clinic at a hospital.

Future Plans:

I want to conduct medical research to improve treatments and diagnosis of diseases like Alzheimer's, epilepsy, or hemophilia.

Contributions I Can Make to Your Success:

Give tips on the application process for grad school, be available to answer any question you might have, and become your listening ear when school and applying to grad school gets hard!

Fun facts:

I am 32% Japanese and I have a lip tattoo that says "Math"!!



Lauren Severance

Undergraduate Major:

Biomedical Engineering

Undergraduate Institution:

Vanderbilt University

Current Department/Major:

Bioengineering

Current Research Focus:

Medical Imaging

Prior Experiences (industry, research, etc):

Research – undergrad, summer internships

Future Plans:

Undecided

Contributions I Can Make to Your Success:

Happy to provide advice on undergraduate research, coursework, extracurriculars, grad school/job application, etc.

Fun facts:

I enjoy yoga and just completed UCSD's yoga teacher training program 😊



Will Leineweber

Undergraduate Major:

Bioengineering & Spanish Studies

Undergraduate Institution:

Santa Clara University

Current Department/Major:

Bioengineering

Current Research Focus:

Tissue Engineering, Cancer

Prior Experiences (industry, research, etc):

Worked for 1.5yrs at the Wyss Institute
working with microfluidics & organs-on-chip

Future Plans:

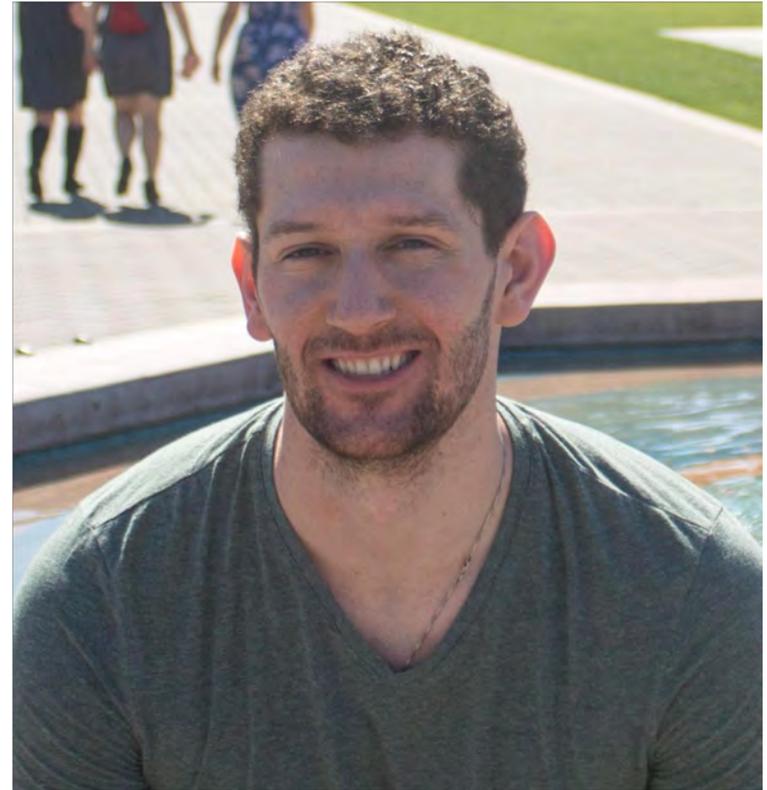
Become a PI in a translational research lab

Contributions I Can Make to Your Success:

Finding a work/life balance, starting research,
developing good study skills

Fun facts:

I've picked up baking and restoring furniture
since COVID started



Rebecca Drake

Role in JUMP: Graduate mentor

Undergraduate Major:

Bioengineering

Undergraduate Institution:

California Lutheran University

Current Department/Major:

Bioengineering

Current Research Focus:

Cartilage Tissue Engineering

Prior Experiences (industry, research, etc):

Research

Future Plans:

PhD

Contributions I Can Make to Your Success:

Great chats and life advice

Fun facts:

I like tennis, food, and click bait



Ismael Munoz

Undergraduate Major:

Bioengineering

Undergraduate Institution:

UCSD

Current Department/Major:

Bioengineering

Current Research Focus:

Bone Biomechanics, tissue engineering

Prior Experiences (industry, research, etc):

Undergrad research

Post-baccalaureate at Johns Hopkins

Future Plans:

Research Project Manager at Company

Contributions I Can Make to Your Success:

Inspiring conversations, career planning, mental health

Fun facts:

I love to sail, ride motorcycles, the outdoors; I am a first-generation college student



Zahra, Mesrizadeh

Undergraduate Major:

Biomedical Engineering

Undergraduate Institution:

CSU, Long Beach

Current Department/Major:

Bioengineering

Current Research Focus:

Nanovaccine

Prior Experiences (industry, research, etc):

Research as undergrad

Future Plans:

- Industry as a research scientists
- Science Communication
- Policy making

Contributions I Can Make to Your Success:

I can be a resource as you are navigating through



Angel Mathew

Undergraduate Major:

B.E (hons) Biotechnology

Undergraduate Institution:

BITS Pilani

Current Department/Major:

MS Bioengineering

Current Research Focus:

CAR-T, FRET and Immunotherapy

Prior Experiences (industry, research, etc):

Takeda Pharmaceuticals (Intern)

Graduate researcher (UCSD)

Undergraduate researcher (BITS Pilani at India, UAE)

Future Plans:

Researcher in industrial R&D for cancer immunotherapy.

Contributions I Can Make to Your Success:

I can help you with advice regarding pursuing research and building skills for a career in biotechnology.

Fun facts:

I have spent half of my life in a tropical rainforest and the other half in a desert.



Michael (Fitz) Fitzgerald

Undergraduate Major:

Bioengineering (Cell and Tissue Engineering)

Undergraduate Institution:

Northeastern University

Current Department/Major:

Bioengineering

Current Research Focus:

Neurodegeneration, genetic eng., systems bio

Prior Experiences (industry, research, etc):

Research at Univ. of Oxford, UCSD, and NU

Future Plans:

Research faculty at a university/NASA space biology research

Contributions I Can Make to Your Success:

I can teach you how to think about problems/research and make connections

Fun facts:

I'm a published poet; I lived abroad for >1.5 years; a hot dog is a form of taco



Mitchell Kong

Undergraduate Major:

Bioengineering: BioSystems

Undergraduate Institution:

UCSD

Current Department/Major:

UCSD Bioengineering PhD

Current Research Focus:

High-altitude hypoxia

Prior Experiences (industry, research, etc):

Space medicine, space physiology

Future Plans:

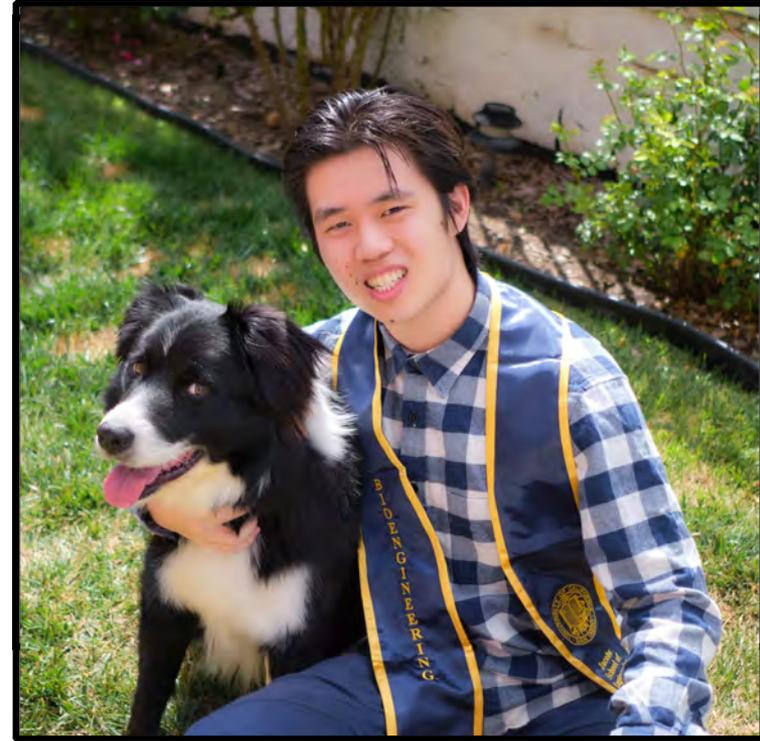
Med school?

Contributions I Can Make to Your Success:

Grad school applications

Fun facts:

I can crack an egg with one hand.



Esther Lim

Undergraduate Major:

Biological Engineering

Undergraduate Institution:

Cornell University

Current Department/Major:

Bioengineering

Current Research Focus:

Cellular Metabolism

Prior Experiences (industry, research, etc):

Bioprocess engineer at Merck & Co.

Undergraduate researcher at Cornell

Future Plans: Work in biotech/pharma industry

Contributions I Can Make to Your Success:

I can help you explore and discuss your career options. I also like to help students prepare for job applications, career fairs, and interviews.

Fun facts:

My favorite ice cream flavor is mint chocolate chip!



Lauren Waller

Undergraduate Major:

Biosystems Bioengineering

Undergraduate Institution:

UC San Diego

Current Department/Major:

Bioengineering PhD

Current Research Focus:

Medical Devices/ Imaging

Prior Experiences (industry, research, etc):

Industry/ research

Future Plans:

Industry

Contributions I Can Make to Your Success:

I hope to provide mentorship or advice for whatever you choose to ask me!

Fun facts:

I was in the studio audience of the TV show *Ellen*!



Renxiang (Ren) Tang

Undergraduate Major:

Biomedical Engineering

Undergraduate Institution:

Purdue University

Current Department/Major:

Bioengineering

Current Research Focus:

Cardiovascular Biomechanics

Prior Experiences (industry, research, etc):

Bench Engineering Co-Op at Cook Research Incorporated

Research Engineer Intern at Nanovis, LLC

Undergraduate research in cardiovascular imaging

Future Plans:

R&D in industry

Contributions I Can Make to Your Success:

Navigating career and research opportunities, Transition to college and major

Fun facts:

Recently started training for half-marathon!



Bioinformatics & Systems Biology

Edahí González Avalos

Undergraduate Major:

Genomics Sciences.

Undergraduate Institution:

UNAM – México.

Current Department/Major:

Bioinformatics & Systems Biology, PhD.

Current Research Focus:

Epigenetics, Machine Learning & Gene Expression.

Prior Experiences (industry, research, etc):

Full-time research since 2014. Landed internship @ Genentech (Covid-cancelled, sadly).

Future Plans:

Mostly Industry, but PostDoc still considered.

Contributions I Can Make to Your Success:

Find your definition of *success* and, then, give input in any possible way to guide you there while keeping sanity.

Fun facts:

Once I thought I could change people, until I challenged transforming myself. I can only change myself.



Sarah Wright

Undergraduate Major:

Biological Engineering

Undergraduate Institution:

Massachusetts Institute of Technology

Current Department/Major:

Bioinformatics & Systems Biology

Current Research Focus:

Biological network modelling

Prior Experiences (industry, research, etc):

MEng Bioengineering (academic research), R&D

Research Associate (AstraZeneca), Associate

Computational Biologist (Cedilla Therapeutics)

Future Plans: Biotech Industry

Contributions I Can Make to Your Success:

I can help with: navigating and achieving success in academia and/or industry, understanding and weighing your future options, applications and interviews, work life balance, scientific communication

Fun facts:

I'm from New Zealand and had pet sheep growing up



Daniella Vo

Undergraduate Major:

Biology w/ Spec. Bioinformatics

Undergraduate Institution:

UC San Diego

Current Department/Major:

Bioinformatics and Systems Biology (BISB)

Current Research Focus:

Applying mathematical models of interactions between microbes in the context of diseases

Prior Experiences:

IT Intern at Beckman Coulter (2018 – 2019)

Undergraduate Research in the Boolean Lab (2018 – 2020)

Future Plans:

Conduct my own research in academia

Contributions I Can Make to Your Success:

Give advice about undergraduate research, and tips for applying to and navigating graduate school

Fun facts:

I enjoy cooking, baking, and solving puzzles. I also recently started gardening.



Nanoengineering & Chemical Engineering

Andrea Monroy

Undergraduate Major:

B.S. Biotechnology Engineering

Undergraduate Institution:

Tecnológico de Monterrey

Current Department/Major:

NanoEngineering/Ph.D. Student

Current Research Focus:

Plant viral nanoparticles.

Prior Experiences (industry, research, etc):

Research on Tissue Engineering, and plant science. Worked in a technology transfer office (patents, copyrights, etc.)

Future Plans:

Finish my Ph.D.

Contributions I Can Make to Your Success:

Engineering background, and biological understanding.

Fun facts:

I love rock climbing and baking cookies.



Luke Kubiawicz

Undergraduate Major:

- Engineering Physics (NanoEngineering)

Undergraduate Institution:

- University of Wisconsin, Madison

Current Department/Major:

- NanoEngineering

Current Research Focus:

- Nanomedicine & Biomimetics

Prior Experiences (industry, research, etc):

- 4 years research (Nanomedicine and fMRI)
- 1 year industry (3M and Catalent Pharma)

Future Plans:

- I plan to earn a doctoral degree and then create or join a biotech startup.

Contributions I Can Make to Your Success:

- Provide guidance on courses/career planning
- Help develop research/networking skills
- Assist graduate school/industry applications

Fun facts:

- I grew up in MN and had a plywood hockey rink in my backyard for awhile.



Matthew Shin

Undergraduate Major:

Chemistry

Undergraduate Institution:

University of Maryland, Baltimore County (UMBC)

Current Department/Major:

NanoEngineering – Biomedical Nanotechnology

Ph.D. Student (Year 3) - Steinmetz Lab

Current Research Focus: Nanomedicine & vaccines –
cardiovascular drug delivery, immunotherapy,
infectious disease

Prior Experiences (industry, research, etc):

2016-2018: Johns Hopkins Center for Nanomedicine

2014-2016: Medicinal/Polymer Chemistry @UMBC+

Grip Boost LLC

Future Plans:

Pursue a career in academia and generate startups

Contributions I Can Make to Your Success:

Academic and career mentorship. What is your WHY?

Fun facts:

I've gone skydiving on the East and West Coast!



Alec Jorns

Undergraduate Major:

Mechanical Engineering

Undergraduate Institution:

University of Kansas

Current Department/Major:

NanoEngineering

Current Research Focus:

Bioimaging, Dr. Jesse Jokerst's Lab

Prior Experiences (industry, research, etc):

Automotive Technician

Future Plans:

Biomedical Device Design

Contributions I Can Make to Your Success:

Stay Positive and Open Minded!

Fun facts:

I'm an adventure sports junky and have had 25+ fractures



Jake Bilyk

Undergraduate Major:

Chemistry B.S.

Undergraduate Institution:

St. Scholastica (Duluth, MN)

Current Department/Major:

MATS Master's Student

Current Research Focus:

Plasmonic Nanomaterials

Prior Experiences (industry, research, etc):

5 years work experience in research and repair labs (3M and WM Keck Observatory)

Future Plans:

Apply for Ph.D candidacy, Research Scientist

Contributions I Can Make to Your Success:

I can help with technical writing and software efficiency

Fun facts:

I can speak Portuguese



Thomas Chan

& Joe Joe Catputo

Role in JUMP: As a mentor, I will encourage and help guide undergraduate engineers to find their own passions and career path. I want to help undergraduate engineers reach their goals and succeed by sharing some advice and academic experiences.

Undergraduate Major: Chemical Engineering

Undergraduate Institution: UC Berkeley

Current Department/Major: Nanoengineering/Chemical Engineering

Current Research Focus: Electrochemistry/Materials/Solar Fuels.

Studying surface immobilized electrocatalysts on carbon nanotubes for CO₂ reduction

Prior Experiences: Fuel cells, Batteries,
carbon nanotubes, membranes, national labs

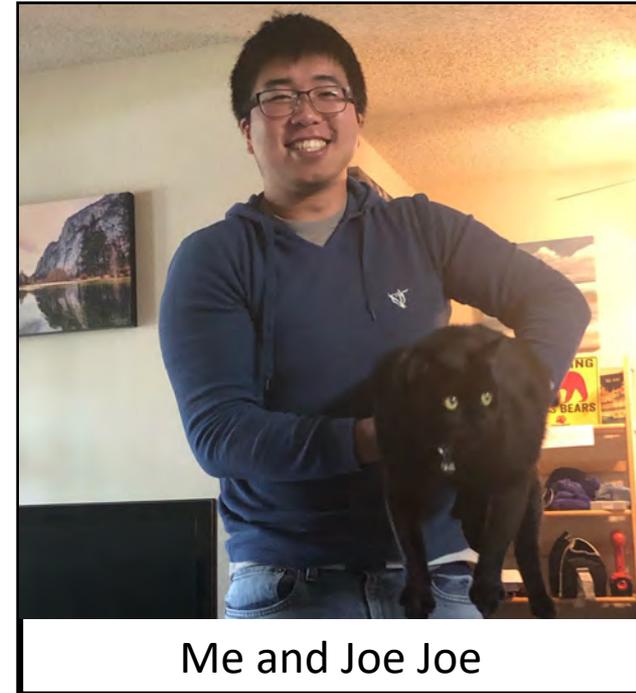
Future Plans: Start a company, work/visit at all the national labs,

Contributions I Can Make to Your Success:

- Provide advice for graduate school or industry
- Can provide input on work/life balance
- Free tips on how to grill tasty food

Fun facts:

- Can eat 21 tacos in one sitting (no problem)
- Co-parent to a chonky black cat, Joe Joe Catputo
- Collect stickers
- From Northern California, Bay area
- Enjoy snorkeling, surfing and fishing
- From a community college



Computer Science & Engineering

Hermes Keng

Undergraduate Major:

Computer Science & Information Engineering

Undergraduate Institution:

National Taipei University

Current Department/Major:

Computer Science & Engineering

Current Research Focus:

Human-Computer Interaction

Prior Experiences (industry, research, etc):

Research Assistant, City University of Hong Kong(Virtual Reality and Human Computer Interaction)

Software Engineer, Titansoft Pte (Full Stack)

Future Plans:

Industries

Contributions I Can Make to Your Success:

Guide you know the pictures of computer science in different fields

Fun facts: Like the weather here



Neil Mallinar

Undergraduate Major:

Mathematics & Computer Science

Undergraduate Institution:

Johns Hopkins University

Current Department/Major:

Computer Science / PhD

Current Research Focus:

Theory, Machine Learning, Deep Learning

Prior Experiences (industry, research, etc):

Industry Research Engineer: 3 years - IBM Watson (NLP, weak/active learning, deep learning for acoustic modeling);
1 year - Pryon (question-answering, retrieval, visual document understanding)

Future Plans:

Would like to be a professor

Contributions I Can Make to Your Success:

Can be a friend to talk to, help with technical problems, industry advice / interview prep, research involvement, help navigate work-life balance, will try to help any way I can!

Fun facts:

Was an improv/sketch comedian in NYC for the last four years, and make music independently



Chen Chen

Previous Majors:

Electrical and Electronic Engineering (Undergrad)

Electrical and Computer Engineering (Master)

Previous Institutions:

University of Nottingham, UK (Undergrad)

Carnegie Mellon University, Pittsburgh, PA (Master)

Current Department/Major:

Computer Science and Engineering

Current Research Focus:

Human Computer Interaction, MobileHCI

Prior Experiences (industry, research, etc):

Research Assistants @UoN, CMU and UCSD

Future Plans:

Academic, Industry *etc.*

Contributions I Can Make to Your Success:

Grad School Preparations,

Research Careers Advising *etc.*

Fun facts:

Travelling, Trail Running, and Coding *etc.*



Shivam Lakhotia

Undergraduate Major:

Computer Science

Undergraduate Institution:

IIT Guwahati

Current Department/Major:

Computer Science

Current Research Focus:

Machine Learning (NLP)

Prior Experiences (industry, research, etc):

Samsung, NVIDIA

Future Plans:

Applied Scientist/SWE

Contributions I Can Make to Your Success:

I have made a lot of mistakes. I'll make sure make better ones.

Fun facts:

I am in top 10% on [chess.com](https://www.chess.com) and I make a damn good coffee! 😊



Link Lin

Undergraduate Major:

Computer Engineering & Computer Science

Undergraduate Institution:

University of Wisconsin-Madison

Current Department/Major:

Computer Science

Current Research Focus:

Currently looking for Programming language Research

Prior Experiences (industry, research, etc):

Worked at a startup from Madison(backend)

Future Plans:

Would love to work more on PL/Compiler or Network

Contributions I Can Make to Your Success:

Help on choosing & preparing for graduate school

Fun facts:

When you get rid of your hair, it would get stuck when putting cloth on because of the friction between your head and the cloth



Noveen Sachdeva

Undergraduate Major:

Computer Science

Undergraduate Institution:

IIIT Hyderabad, India

Current Department/Major:

Ph.D. Student in Computer Science

Current Research Focus:

Machine Learning

Prior Experiences (industry, research, etc):

Previously intern at GSoC, PwC, Cornell, Microsoft Research. Qualified for ACM-ICPC regionals. Published at ML conferences.

Future Plans:

Industry Research / Academia

Contributions I Can Make to Your Success:

ANY advice, career counselling

Fun facts:

Can be your football/guitar/partying buddy.



Olivia Weng

Undergraduate Major:

Computer Science

Undergraduate Institution:

The University of Chicago

Current Department/Major:

Computer Science & Engineering

Current Research Focus:

Computer Architecture

Prior Experiences (industry, research, etc):

- Interned at Braintree as software engineer
- Completed research in hardware security and hardware acceleration

Future Plans:

- Looking into both academia and industry research

Contributions I Can Make to Your Success:

- Check-ins throughout the quarter
- Help with graduate school applications, resume/CV
- Sounding board to talk through ideas

Fun facts:

- I love consuming films, Shakespeare plays, TV, and novels.
- Jeopardy and bar trivia are my jams.



Rex Lei

Undergraduate Major:

Computer Science and Applied Math

Undergraduate Institution:

Columbia University

Current Department/Major:

CSE

Current Research Focus:

CS Theory – Algorithms and Complexity

Prior Experiences (industry, research, etc):

Undergrad Research

Future Plans:

PhD -> Professor in CS Theory

Contributions I Can Make to Your Success:

I'll answer almost any random question you ask

Help you navigate through 1) CS job/internship interview process and/or 2) getting involved in research on campus

Fun facts:

I played viola in a startup opera in NYC

Sleeping on time is a valuable skill to have



Jennifer Chien

Pronouns:

they/them

Undergraduate Major:

Computer Science

Undergraduate Institution:

Wellesley College

Current Department/Major:

Computer Science and Engineering

Current Research Focus:

Machine Learning and Fairness

Prior Experiences (industry, research, etc):

Drug Industry, Bioinformatics Research

Future Plans:

Earn My PhD!

Contributions I Can Make to Your Success:

Mentor, Give Advice, Listen, Network

Fun facts:

Hobbies: photography, dance, sailing, cooking and eating great food! I am also the President of Graduate Women in Computing (GradWIC)!



Electrical and Computer Engineering

Laura Becerra

Undergraduate Major:

Electrical Engineering

Undergraduate Institution:

University of San Diego

Current Department/Major:

Electrical and Computer Engineering
Medical Devices and Systems

Current Research Focus:

Haptic technology and wearable devices

Prior Experiences (industry, research, etc):

Lawrence Livermore National Laboratory
Massachusetts Institute of Technology
Stanford University

Future Plans:

I plan to work in the biotech industry for R&D

Contributions I Can Make to Your Success:

Advice/tips for successful education and research practices, a friendly peer to discuss any worries/stresses in your academic environments, accountability check-ins to stay on track 😊

Fun facts:

- I moved to South America for 6 months after undergrad to be a volunteer elementary school teacher
- During this pandemic I've: gone skydiving, ran a half marathon, and learned to French braid!



Aditya Arun

Undergraduate Major:

Electrical Engineering And Computer Science,
Engineering Physics

Undergraduate Institution: U.C. Berkeley

Current Department/Major:

College of Engineering/ECE

Current Research Focus:

Autonomous Localization and Mapping

Prior Experiences (industry, research, etc):

internship, research, teaching, advising

Future Plans: Interested in both academia and industry, leaning towards former

Contributions I Can Make to Your Success:

Provide advice on graduate school, career paths within robotics and computer science

Fun facts: I love to cook and bake bread in my free time; huge fan of One Piece; love to hike and spend time outdoors!



Yifan Wu

Undergraduate Major:

Communication Engineering

Undergraduate Institution:

Northeastern University, China

Current Department/Major:

Electrical and Computer Engineering

Current Research Focus:

Signal Processing and Machine Learning

Prior Experiences (industry, research, etc):

JUMP Mentor for 2019-2020

TA for Spring 2020 and Fall 2020

Graduate Researcher since Fall 2019

Future Plans:

Become a researcher in the industry

Contributions I Can Make to Your Success:

I am happy to share with my experience on how to manage time effectively in the stressful college life.

Fun facts:

Beyond my student life, I enjoy reading Chinese traditional poems and history books.

We can discuss about that if you are also interested in Chinese culture.



Zachary Burns

Undergraduate Major:

Electrical Eng. , Engineering Physics

Undergraduate Institution:

Univ. of Michigan

Current Department/Major:

ECE

Current Research Focus:

Microscopy, Optics, Deep Learning

Prior Experiences (industry, research, etc):

Undergraduate research

Future Plans:

Research positions in industry/academia

Contributions I Can Make to Your Success:

Advice on research experiences, networking with Professors, managing schoolwork, building your resume

Fun facts:

Last summer before starting my PhD I biked from California to Virginia! It took 45 days.



Allen Zeng

Undergraduate Major:

Electrical Engineering & Computer Sciences

Undergraduate Institution:

UC Berkeley

Current Department/Major:

ECE - ISRC

Current Research Focus:

Computer Vision

Prior Experiences (industry, research, etc):

Industry (2.5 years for research company)

Future Plans:

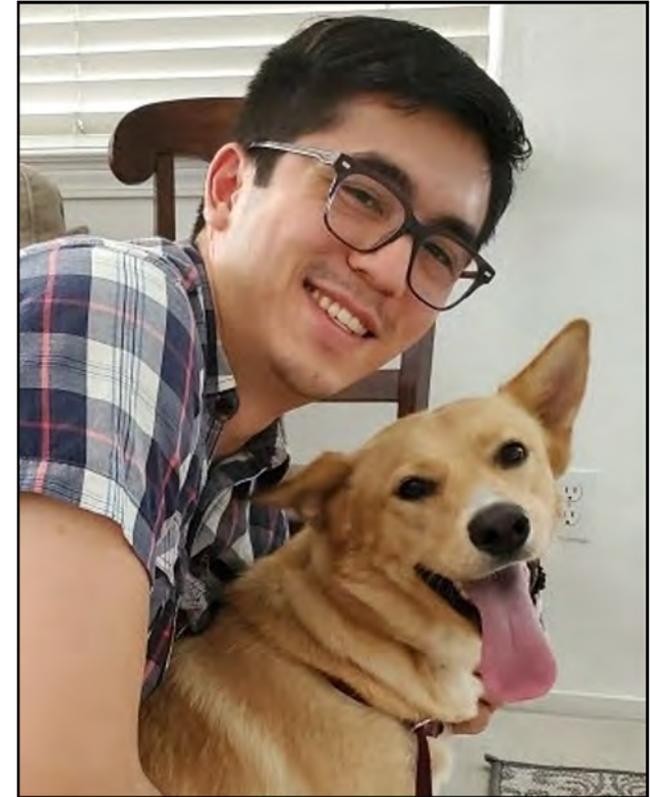
Industry, research focus. Maybe startup?

Contributions I Can Make to Your Success:

Advice about resumes, jobs, industry research. Moral support :)

Fun facts:

Likes VR/AR. Slowly picking up guitar. Won \$50 for a drawing of cupcakes.



Hsin-Chien Chang

Undergraduate Major: Electrophysics

Undergraduate Institution: Science

Current Department/Major:

ECE(Computer Engineering)

Current Research Focus: Web application

Prior Experiences (industry, research, etc):

I've been a research assistant before.

Future Plans:

Try to find a software engineering job.

Contributions I Can Make to Your Success:

Choose me if you want.

Fun facts:

Love traveling, Love hanging out, Love knowing People.



Reilly Jensen

Undergraduate Major:

Electrical Engineering

Undergraduate Institution:

University of California, San Diego

Current Department/Major:

Electrical Engineering

Current Research Focus:

Circuits

Prior Experiences (industry, research, etc):

SpaceX, Space Micro, Robotics Research

Future Plans:

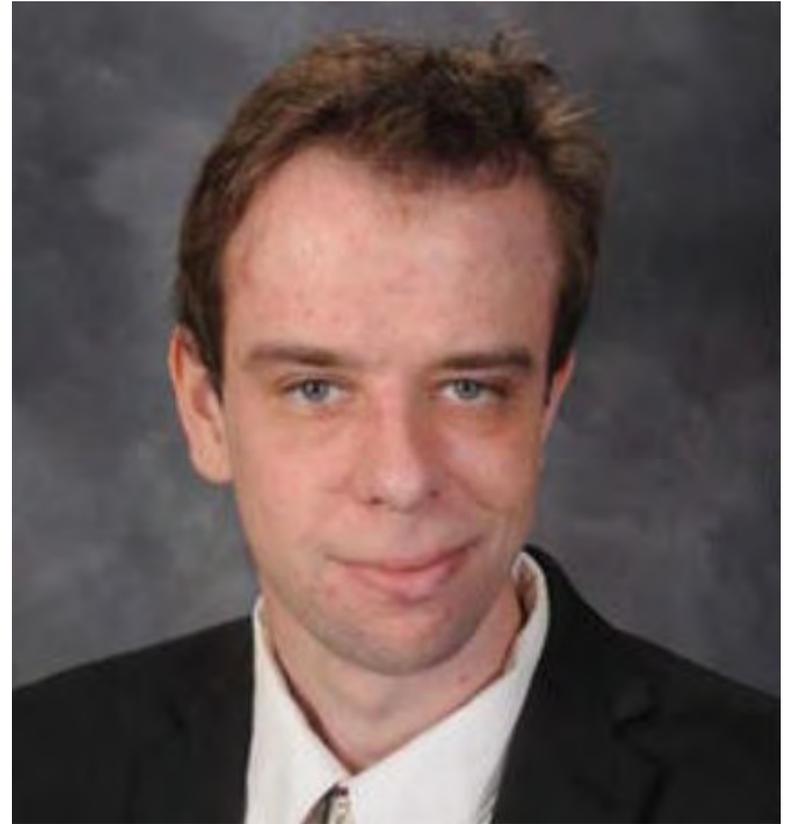
Get a patent, publications, explore Mars.

Contributions I Can Make to Your Success:

How to make cool stuff.

Fun facts:

I once made a refrigerator which after working for 20 minutes, transformed into a room heater.



Jeff Patz

Undergraduate Major: Electrical Engineering & Chinese Language

Undergraduate Institution: Georgia Tech

Current Department/Major: Electrical Engineering - Nanoscale Devices and Systems

Current Research Focus: Application of 2D materials in electronic devices, Bose-Einstein Condensation of Indirect Excitons in 2D Heterostructures

Prior Experiences (industry, research, etc):

Photolithography process engineering intern at MACOM, research in 2D materials, research in electronics packaging

Future Plans: PhD then work in industry R&D

Contributions I Can Make to Your Success: I want to help you find your passion in your major, I almost failed out of undergrad and brought my GPA back up for grad school so I can help you get back or stay on the right track and I'm a great listener for advice and emotional support.

Fun facts: I speak barely passable Chinese, I enjoy making RnB/Hip-Hop music, I spend too much money on Adidas sneakers, and I love all racket sports!



Amanda Tomlinson

Undergraduate Major:

Electrical Engineering and Computer Science

Undergraduate Institution:

UC Berkeley

Current Department/Major:

Electrical and Computer Engineering
/Computer Engineering

Current Research Focus:

Undecided/Embedded Systems

Prior Experiences (industry, research, etc):

Analog Circuit Designer at Texas Instruments
Undergraduate Research at Berkeley Sensor
And Actuator Center (BSAC)

Future Plans:

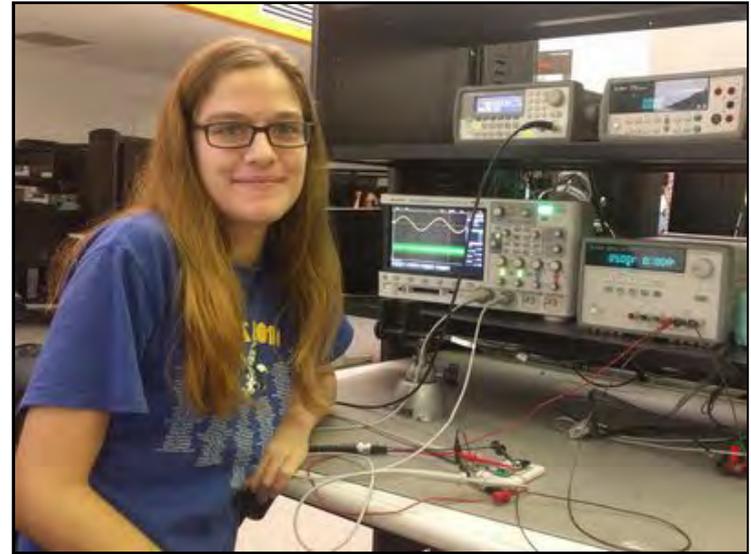
Undecided!

Contributions I Can Make to Your Success:

Help with interviews/research success!

Fun facts:

I was a transfer student from SDCCD



Nojan Sheybani

Undergraduate Major:

Computer Engineering

Undergraduate Institution:

University of Virginia

Current Department/Major:

Computer Engineering in ECE

Current Research Focus:

Privacy preserving computation, HW/SW codesign

Prior Experiences:

Internship experience at a startup, AT&T, and Appian. Undergrad research in self powered IoT systems

Future Plans:

Aspiring towards an academic career

Contributions I Can Make to Your Success:

I can provide guidance on undergraduate research, time & stress management, and work/life balance

Fun facts:

I beat LeBron James' son in a pickup basketball game in Los Angeles



Roshan Ayyalasomayajula

Undergraduate Major:

Electronics and Communication Engineering

Undergraduate Institution:

Indian Institute of Technology, Roorkee

Current Department/Major:

ECE/ Signal and Image Processing

Current Research Focus:

Wireless Sensing and Localization

Prior Experiences (industry, research, etc):

Project officer at NTU, Singapore.

Intern at Nokia Bell labs

Future Plans:

Join Academia as a Professor

Contributions I Can Make to Your Success:

Have experienced some industry and research part of the world. Should be able to help you in making your choices regarding any of your future plans.

Fun facts:

Coffee brewing enthusiast, learning Guitar, would love to organize Board games.



Materials Science & Engineering

Jenna Metera

Undergraduate Major:

Ceramic Engineering

Undergraduate Institution:

Alfred University

Current Department/Major:

Materials Science and Engineering

Current Research Focus:

Electroceramic synthesis and characterization

Prior Experiences (industry, research, etc):

4 industry internships, 3 years graduate research

Future Plans:

Move to the UK –academia/industry

Contributions I Can Make to Your Success:

Advice on student spending, extracurricular jobs, navigating management, research practices, job/school application advice, peer reviewing documents, etc.

Fun facts:

I home brew, I am an Whovian, I like cooking and baking, I am good at bowling, Musicals are a way to relax.



Steven Bopp

Role in JUMP: Graduate Student Mentor

Undergraduate Major:

Materials Science & Engineering BSE

Undergraduate Institution:

Arizona State University

Current Department/Major:

Materials Science & Engineering Ph.D.

Current Research Focus:

Nanophotonics, Nonlinear Optics, Plasmonics

Prior Experiences (industry, research, etc):

Bioelectronics, optoelectronics, semiconductor growth/characterization, photonics, lots more

Future Plans:

Teaching, research, owning/licensing materials and condensed matter technology

Contributions I Can Make to Your Success:

Happy to help and share my experiences, finding research groups, applications, and all that good stuff that took me a while to learn but can be expressed pretty quickly.

Fun facts: I'm all about materials science! I love: rock climbing, making/eating sushi, Linux, Rick and Morty, blacksmithing, traveling, learning new things, and lots more!



Varun Gupta

Undergraduate Major:

Physics

Undergraduate Institution:

University of Delhi

Current Department/Major:

Materials Engineering

Current Research Focus:

Energy Materials

Prior Experiences (industry, research, etc):

Academic research

Future Plans:

Industry: Process Engineer

Contributions I Can Make to Your Success:

Keep your head calm and be a friend.

Fun facts:

About me: I like to play chess, badminton, gaze stars, travel and want to go for skydiving at some point.

General fun fact: Some frogs in South America can come back to life after freezing to death



Charles Soulen

Undergraduate Major:

Physics

Undergraduate Institution:

William and Mary (Virginia)

Current Department/Major:

Materials Science and Engineering

Current Research Focus:

Solid State Li-ion Batteries

Prior Experiences :

Oak Ridge National Lab, Undergrad research

Future Plans:

Post-doc, national lab staff scientist

Contributions I Can Make to Your Success:

I can give perspective, alternative options from someone who took a gap year. I can suggest options for gap year, phds, ect.

Fun facts:

I enjoy running, soccer, and playing music. I'm an awful speller, so don't be surprised in I've spelled something wrong!



Mechanical & Aerospace Engineering

Emily Lathrop

Undergraduate Major:

Computer Engineering

Undergraduate Institution:

University of Maryland, College Park

Current Department/Major:

Mechanical Engineering

Current Research Focus:

Robot legged locomotion (bioinspired robotics and design lab)

Prior Experiences (industry, research, etc):

Internship at the naval research lab, participated in engineers without borders at UMD, TA for electronics courses at UMD

Future Plans:

Career in industry

Contributions I Can Make to Your Success:

Advice on doing research, career options after undergrad

Fun facts:

I enjoy doing triathlons, hiking, and climbing



Micah Bryant

Undergraduate Major:

Bioengineering

Undergraduate Institution:

UCLA

Current Department/Major:

Mechanical Engineering

Current Research Focus:

TBD

Prior Experiences (industry, research, etc):

Medical Device Internships,

Bioinformatics Research

Future Plans:

Medical Device Industry

Contributions I Can Make to Your Success:

I can help give academic and career guidance in the biotech industry.

Fun facts:

I like reading, gaming, and finding good food. I've also been to Japan twice.



Manasa Muralidharan

Undergraduate Major:

Aerospace Engineering

Undergraduate Institution:

Amrita University, Coimbatore, India

UC San Diego (Study-Abroad)

Current Department/Major:

Mechanical Engineering

Current Research Focus:

Renewable Energy, Optimization and Control

Prior Experiences (industry, research, etc):

High-school tutor (for TRIO), aerospace internships (in India), undergraduate & graduate research experience

Future Plans: Academia

Contributions I Can Make to Your Success: Personalized Mentorship Experience - because this is about what you need 😊 But Building Community, Finding Mentors, Networking Naturally, Time Management, UG Research/Internship Opportunities, Graduate School and Mindfulness are a few things that I can help with.

Fun facts: I dance so much salsa and bachata that I should be fluent in Spanish by now!



Iman Adibnazari

Undergraduate Major:

Electrical and Computer Engineering

Undergraduate Institution:

University of Utah

Current Department/Major:

Mechanical and Aerospace Engineering

Current Research Focus:

Mobility and control of small-scale robots

Prior Experiences (industry, research, etc):

Research, consulting, and freelance engineering

Future Plans:

Entrepreneurship and academia

Contributions I Can Make to Your Success:

I have a broad engineering background and am happy to help you navigate your interests to better understand and pursue your goals. I can also help you write a stellar resume!

Fun facts:

I fight (Muay Thai and Capoeira) and I love to cook!



Andrew Nguyen

Undergraduate Major:

Bioengineering

Undergraduate Institution:

University of California San Diego (UCSD)

Current Department/Major:

Mechanical and Aerospace Engineering

Current Research Focus:

Exploring the relationship between the morphology of neurons and their functions with respect sleep, learning and memory.

Prior Experiences (industry, research, etc):

I've worked as an intern in industry and have worked in two labs over the course of my undergraduate career one dealing with a more wet-lab experimental approach, while the other (and also my current lab) focuses on computational work (cell signaling).

Future Plans:

I plan to work in industry involved with improving data acquisition and analyses of connectomes (something along the lines of data science).

Contributions I Can Make to Your Success:

I can definitely speak on the comparison of working in industry vs. academia and what may be right for you. I can show you what opportunities/resources are available to you and help you integrate yourself into the engineering community.

Fun facts:

I love playing the guitar and rock climbing in my free time. Bonus fun fact: I used to live in the countryside for most of my life up until several years ago, so coming to urban areas in California was quite a shock!



Jinyuan Liu

Undergraduate Major:

Engineering thermo-physics

Undergraduate Institution:

Tsinghua University, Beijing, China

Current Department/Major:

Mech. & Aero. Eng., Fluid Mechanics

Current Research Focus:

Turbulence & CFD

Prior Experiences (industry, research, etc):

Research

Future Plans:

be a scientist

Contributions I Can Make to Your Success:

Course planning to laid a theoretical foundation,

Getting involved in research during undergrad,

Conducting productive research work, school application, etc.

Fun facts:

Aviation photography, GO(Wei-Qi), Swimming, Symphony



Xiangbei Liu

Undergraduate Major:

Mechanical Engineering

Undergraduate Institution:

Dalian University of Technology/ UC Irvine

Current Department/Major:

Mechanical Engineering

Current Research Focus:

Aircraft geometry and mesh generation

Prior Experiences (industry, research, etc):

Research

Future Plans:

Pursue my PHD degree

Contributions I Can Make to Your Success:

Engineering Study, master application

Fun facts:

A super fan of Albert Camus
and *The Big Bang Theory*



Fred Lin

Undergraduate Major:

Mechanical & Electro-mechanical Eng

Undergraduate Institution:

Tamkang University, Taiwan

Current Department/Major:

Mechanical Engineering

Current Research Focus:

Surgical robotics, continuum robots

Prior Experiences (industry, research, etc):

IOT, industrial robot, retails, surgical training

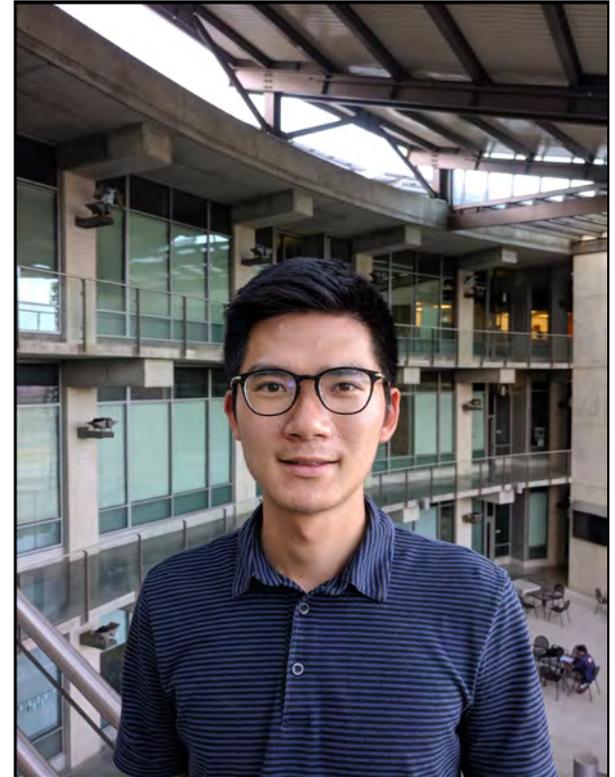
Future Plans:

Work in medical robotics industry

Contributions I Can Make to Your Success:

Share my research & work & life experience
in Asia and US

Fun facts: I want to open my own
restaurant and coffee shop



Sophie Parsons

Undergraduate Major:

Physics

Undergraduate Institution:

UC Berkeley

Current Department/Major:

Mechanical and Aerospace
Engineering/Engineering Physics

Current Research Focus:

Plasma physics and material science

Prior Experiences (industry, research, etc):

Research, government, industry

Future Plans:

Government lab

Contributions I Can Make to Your Success:

I can help with navigating academia and helping you find your research interests

Fun facts:

I'm a dual citizen with Belgium

I'm double jointed



Ashish Manohar

Undergraduate Major:

Mechanical Engineering

Undergraduate Institution:

RV College of Engineering, Bangalore, India

Current Department/Major:

Mechanical Engineering

Current Research Focus:

Medical imaging, cardiac imaging

Prior Experiences (industry, research, etc):

Masters in mechanical engineering, UCSD

Future Plans:

Postdoctoral position in the field of medical imaging

Contributions I Can Make to Your Success:

I can provide some good insight into the world of academia and how your success in an academic setting is very dependent on choosing the right advisor and the right lab for you.

Fun facts:

Huge tennis fan (Rafa Nadal especially), enjoy swimming, backpacking through the wilderness, and a lover of post-rock music!



David Zhu

Undergraduate Major:

Mechanical Engineering

Undergraduate Institution:

UCSD

Current Department/Major:

MAE

Current Research Focus:

Control & Systems

Prior Experiences (industry, research, etc):

Product Design Internship

Future Plans:

Research topic of automations and robotics, and their industrial application.

Contributions I Can Make to Your Success:

Provide insights into

Fun facts:

Enjoys grand strategy games, anime, and historical fictions.



Structural Engineering

Brian Yamashiro

Undergraduate Major:

Civil Engineering

Undergraduate Institution:

Iowa State University

Current Department/Major:

Structural Engineering / PhD in Str. Eng.

Current Research Focus:

Multi-phase flow in rock fractures

Prior Experiences (industry, research, etc):

Master's research on soil seismic response,
~8yrs construction/civil industry (project engineer, staff engineer, senior estimator)

Future Plans:

I plan to pursue faculty positions after graduating with my PhD

Contributions I Can Make to Your Success:

I can help with navigating resources to add to your success at UCSD as well as share about my experiences in both academia and industry to help you decide your next steps after your undergrad.

Fun facts:

I love playing guitar, taking kickboxing classes, and maintaining bonsai



Skye Yang

Undergraduate Major:

Structural Engineering

Undergraduate Institution:

UC San Diego

Current Department/Major:

Structural Engineering

Current Research Focus:

Masters – coursework track

Prior Experiences (industry, research, etc):

Construction Industry – internship with general Contractor. Design firm internship.

Research projects: testing of existing design of cripple walls, retaining wall FEA simulation.

Future Plans:

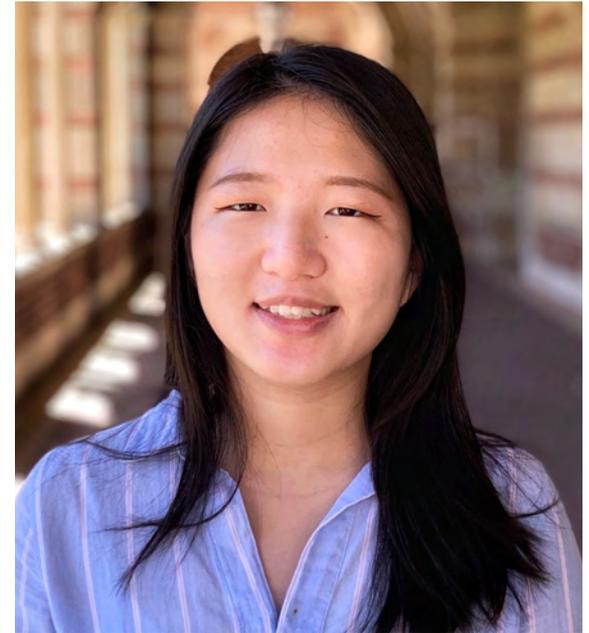
Work for a structural design firm.

Contributions I Can Make to Your Success:

Provide some advices for your undergrad classes. Answer some of your burning questions about the major and the industry.

Fun facts:

I'm from Beijing China. I like staying indoors.



Adrielly Hokama Razzini

Undergraduate Major:

Mechanical Engineering

Undergraduate Institution:

São Paulo State University (UNESP), Brazil.

Current Department/Major:

PhD, Structural Engineering

Current Research Focus:

Structural Health Monitoring of Aerospace Structures, using Finite Elements and Machine Learning.

Prior Experiences (industry, research, etc):

- 2 years undergraduate research in Smart Materials.
- Undergraduate Sandwich year in Lille, France.
- 1 year internship at the International Paper Company.
- Masters in Mechanical Engineering (UNESP, Brazil).

Future Plans: I plan to work in the aerospace industry.

Contributions I Can Make to Your Success:

I have a multicultural background and I have experience both in industry and research. I can share my experiences, understand my mentee's struggles, and help them build an action plan towards their goals.

Fun facts: I ride dirt bikes (Motocross) since I was a kid.

