MEGAN LIM

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EDUCATION

UC Berkeley. **Junior.**
B.S. in BioEngineering. **GPA**: 3.62
Some Fav Coursework: Organic Chem. Quantum Mechanics. Lin Alg & Diff Eq. Multivariable Calculus. CS Programs. EE Medical Devices. Drug Delivery(Grad). Neural Engineering(current). Machine Learning for Chemistry(current).

Troy High School. **Class of 2016.**
Valedictorian.

WORK EXPERIENCE

NASA Tech Intern (Jun - Aug 2018). **NASA Ames Research Center.**
- Focus: Diagnostics and Prognostics (D&P) Research Group algorithms.
- Outreach: Presented project, The Kalman Kick, at NASA Intelligent Systems Division showcase among 5 other selected interns, interviewed for Kiwoba Allaire's Girl STEM Stars video.
- Supported D&P Open-Source software release: Designed and compiled an example system model in C to be included in the Diagnostic Reasoner (DR) algorithm software release.
- Technical writing: DR software user manual, Prognostics Metrics Library Github wiki, and Generic Software Architecture for Prognostics (GSAP) 19 pg wiki.

Medium Writer & Editor (2016 - Present). **50+ articles published.**
- Writer for 3 of Medium's Top 5 publications: The Mission, The Startup, The Writing Cooperative.
- Founder and editor of publication: Unicorns in Hoodies.
- Top stories: Kalman Filters, Education, Chaos, Molecular Orbital Diagrams.

GenEdit BioE & Chem Research Intern (Jan 2019 - Present). **Murthy Lab, Berkeley.**
- Part time intern at the startup, GenEdit, testing gene editing therapeutics(CRISPR) and drug delivery.

UCSF Undergrad Researcher (Aug 2017 - Nov 2018). **Wang Lab, Department of Surgery.**
- Licensed and practiced mouse handling and technique, such as perfusion, to better understand arterial venous structure and function. Studied: Notch4* and AVM, areas of strokes in the brain.

Organic Chemistry Tutor (Jan - Nov 2018). **UC Berkeley.**
- Hired by UC Berkeley Student Learning Center Science Department to tutor Organic Chemistry to undergraduate students.

UC Irvine BioEngineering Intern (Jun - Aug 2017). **Lakey Lab, Department of Surgery.**
- Researched the efficiency of capsules that protect pancreatic islets from immune rejection in diabetes.
- Skills developed: use of the Encapsulator, Immunohistochemistry Protocol with deparaffinization, rehydration, antigen revival, and immunostaining, TUNEL assay, microtome.

OUTREACH

BioEngineering Curriculum Committee (Aug 2017 - Present). **UC Berkeley.**
- Collaborate with professors and advisors to write BioEngineering curriculum and courses for the major.

Disabilities Student Note Taker (Aug 2016 - Present). **UC Berkeley.**
- Hired by Physics, Computer Science, UpperDiv Ochem, BioE departments to take clear notes for disabled students.

Society of Women Engineers Science Saturday Instructor (Aug 2018 - Present). **UC Berkeley.**
- Teach engineering and science principles to middle schoolers on Saturdays. :)

PUBLISHED

Basement Physics (Published May 2017). **Author.**
- This book is available for purchase on Amazon.com and Amazon Europe.

Visualizing Linear Algebra and Differential Equations (Published June 2017). **Author.**
- This book is available for purchase on Amazon.com and Amazon Europe.

PROJECTS

The Kalman Kick (July 2018).
- Inspired by the Summer 2018 World Cup, this program interprets user input of player parameters, calculates discrete time predictions, and generates visual images of the soccer ball's future state on a penalty kick.

Glaucoma Diagnosing Smart Contact Lenses (Nov 2018 - present).
- With another student designed circuitry and signal processing for wearable smart contact lenses monitoring anterior eye ROS species concentration for early stage glaucoma diagnosis.

DABBLED AREAS & INTERESTS

Technical Writing. Python. HTML. JS. CSS. Autodesk/3D Printing. Drug Delivery. Soccer juggling. 1/2 Marathons.