

# Megan M. Chang

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## EDUCATION

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<b>University of California, Santa Barbara</b>	<b>June 2017</b>
Master of Science, Mechanical Engineering w/ Emphasis in Computational Fluids	GPA: 3.65
Thesis: "A Level-Set Approach to Simulating Dendritic Crystal Growth on Irregular Domains"	
<b>University of California, Santa Barbara</b>	<b>June 2015</b>
Bachelor of Science, Mechanical Engineering	GPA: 3.45

## HONORS, ACHIEVEMENTS, AND INVOLVEMENTS

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- Won "**Most Marketable**" for Junior Design Project: A table made of square grids that can be adjusted to different configurations (like Tetris shapes) for people in tight living spaces
- Received two **UCSB Technical Writing Excellence Awards** (one for "Dodonpa" Wikipedia article which receives 2,000 views monthly <https://en.wikipedia.org/wiki/Dodonpa> )
- UCSB physics tutor for Intercollegiate Athletes and students in Disabled Students Program (1 year)
- Member of UCSB Engineering Student Council (2 years)
- President of Geek Week Committee (managed organization and fundraising of 2<sup>nd</sup> annual college-wide engineering competition involving obstacle courses, scavenger hunt, kickball etc.)

## EXPERIENCE

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<b>UCSB Engineering Class Section Leader</b> <i>Teaching Assistant</i>	<b>Jan 2016 – Present</b>
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- Created and delivered lecture for classes ranging from 12-27 students each week
- Assigned homeworks and was ultimately responsible for 30% of student's overall grade in class

<b>Tangential Flow Filtration (TFF) Biomedical Testing Project</b> <i>Team Member</i>	<b>Sep 2014 – Jun 2015</b>
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- Designed testing system for the Pennathur Lab to investigate microfluidic TFF at varying Reynolds numbers under 3 operating modes: oscillatory flow, constant transmembrane pressure, and constant permeate flux
- Created system integrating pressure transducers, flow sensors, syringe pumps, TFF microchip, and a Labview control interface that provided numerical data and control over testing parameters

<b>Advanced Vision Science (AVS)</b> <i>Head Intern – Process Engineering</i>	<b>Jun 2014 – Oct 2014</b>
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- Led engineering studies to improve manufacturing process for AVS intraocular lenses: improved yield by over 10%, reduced operator time, and decreased costs
- Served as lead engineer during emergency production shut down and successfully brought lens yield back up and into production
- Improved engagement and productivity of operators by influencing the working culture in clean rooms eventually becoming the engineering/operations liaison, effectively bridging the gap between management and front line operations

<b>UCSB Orientation</b> <i>Academic Advisor</i>	<b>Mar 2014 – Aug 2014</b>
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- Served as academic advisor, student ambassador, and campus guide
- Worked in environment demanding painstaking detail, with fellow advisors and minimal supervision to orientate over 8,000 new students and their parents to UCSB
- Delivered presentations to students, partook in panels for parents, gave tours of UCSB and Isla Vista

## SKILLS AND ADDITIONAL INTERESTS

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- Computer: Python, Java, Matlab, Solidworks, Microsoft Office
- Languages: English, Spanish
- UCSB Intramurals Champ! (Doubles Tennis, Ultimate Frisbee, Flag Football, Volleyball, Soccer)