

Tridib Biswas

139 W Floral Ave Arcadia, CA 91006 tridib.biswas44@gmail.com (626)-419-3609

Education

University of California, Los Angeles
Bachelor of Science in Chemical and Biomolecular Engineering
Expected Graduation Date, June 2019

Work Experience

Di Carlo Microfluidic Biotechnology Lab, Researcher March 2016 - Present

- Maintain immortalized cell lines as well as fabricate microfluidic devices using CAD software
- Troubleshoot photonics hardware, software, and interfacing when imaging cells to generate better data
- Programmed image processing code to analyze cell profiles using OpenCV with Python

NASA-JPL/Caltech, Summer Intern June 2016 – August 2016

- Worked with Gas Chromatography-Mass Spectrometry (GC-MS) systems to analyze International Space Station (ISS) cabin air to monitor astronaut health and air quality on board the ISS
- Developed testing processes for gases in GC-MS and analyzed experimental data using Python

Daily Bruin, Writer September 2015 – September 2016

- Gained valuable teamwork skills from writing for the Arts and Entertainment section reviewing music and movies writing as part of a team of writers and editors at the country's largest collegiate newspaper
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Volunteer Experience

Kaiser Permanente LA Medical Center, Hospital Volunteer August 2017 – Present

- Interact one-on-one with a variety of patients to direct them around the hospital campus

Connecting Californians to Care, Undergraduate, Health Access Educator September 2017 – Present

- Work with underprivileged communities in LA to educate them about accessible healthcare options in CA

MentorSEAS, Mentor September 2017 – Present

- Advise incoming freshman on career guidance, course planning, and general mentorship related to college life
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Conferences

Biomedical Engineering Society Annual Meeting (BMES) Annual Meeting October 2017

- **Biswas, T., Lin, J., et al** (2017, October). *Microfluidic assay of whole-cell and nuclear deformability using single-cell physical and fluorescent phenotyping*. Poster session presented at the BMES Annual Meeting, Phoenix, AZ.
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Relevant Coursework & Skills

Mathematics

- Linear Algebra, Differential Equations, Multivariable Calculus, Probability Theory, Numerical Methods

Physics & Engineering

- Mechanics, Electricity and Magnetism, Thermodynamics I & II, Transport Phenomena

Biology & Chemistry

- Biochemistry, Molecular and Cell Biology, Biomolecular Engineering, Organic Chem I&II, Gen Chem I& II

Skills

- Proficient in numerical computing using Python, MATLAB
- Intermediate understanding of C++, OpenCV, LaTeX, Solidworks