**Farhana Haque**

**Milpitas, CA 95035**

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**EDUCATION**

**UNIVERSITY OF CALIFORNIA, LOS ANGELES, Los Angeles, CA** **Expected June 2019**

Bachelor of Science in Bioengineering

* Multivariable Calculus, Intro to Bioengineering, Intro to Organic Chemistry, Mechanics, Electromagnetism, Optics, Chemistry Lab

**RESEARCH EXPERIENCE**

**Howard Hughes Medical Institute Research and Training Program(HHMI) September 2016-present**

*Undergraduate Researcher*

* Main focus on plasmonic devices and chemistry involved in gaining optimal binding of antibody for biochemical detection
* Devise novel means to address telemedicine in impoverished environments through cost-effective imaging and biophotonics
* Tested optics and mechanics of immunofluorescent diagnostic tools using prototypes made from AutoDesk software

**The Perry Initiative, Stryker Endoscopy Headquarters August 2015**

*Women in STEM Outreach Participant*

* Sutured, inserted intramedullary rod into bone, experimented how to fix a complex fracture to learn basics of orthopedic surgery

**Children's Hospital Oakland Research Institute(CHORI) June 2014-August 2014**

*Summer Research Intern*

* Conducted analysis of cell progression through prep of assays with BrdU, Desmin and Hoechst antibodies, cell passaging, Western blot, hanging drop cells, cytometry, statistical computation, and testing on lab rats at Conboy Lab at UC Berkeley
* Co-authored scientific abstract and scientific proposal on fibroblast growth factors and their effects on myogenic regeneration

**LEADERSHIP EXPERIENCE**

**UCLA Society of Women Engineers(SWE) October 2015-present**

*Student Relations Director, Past Outreach Committee*

* Manage quarterly general meetings, socials, and retreats; increased member attendance by 300-400% for fall meeting and social
* Coordinated logistics regarding activities by preparing instruction manuals and budgeting supplies needed for WOW! That's Engineering, event that hosts over 100 local Girl Scouts to empower young girls to engage in STEM-related fields

**WORK EXPERIENCE**

**UCLA Center for Digital Humanities September 2016-present**

*Lab Consultant*

* Diagnose and resolve audio-visual, hardware, and software equipment issues

**OneClass August 2016-present**

*Elite Notetaker*

* Publish class notes to OneClass website for students with learning disabilities as well as other students who need extra resources

**The Tutoring Center July 2016-September 2016**

*Tutor*

* Demonstrated persistence and diligence in providing academic support to some students with ADHD and mild autism
* Instructor for AP Physics, calculus, chemistry, biology, among others

**HONORS AND AWARDS**

**UCLA-SWE Scholarship May 2016**

For dedication to empowering young women in pursuing engineering through the Outreach Committee

**Presidential Service Award June 2015**

For excellence in service to the community with over 700 hours of active civic involvement

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**Languages**: English, Bengali, Arabic, Spanish

**Skills:** Immunofluorescence Microscopy, Cell Culture, Cryosectioning, Western Blot, Cell Passaging, CPR Certified by American Heart Association, Public Speaking, UCLA Laboratory Safety Fundamentals Concepts and Bloodborne Pathogen Training Certified

**Computer Skills:** WordPress,Microsoft Word, Microsoft Excel, Java (in progress), iMovie, Windows MovieMaker