

# Francis Lin

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## EDUCATION

**University of California, Los Angeles (UCLA)**  
B.S. Bioengineering

Anticipated Graduation: June 2018  
GPA: 3.6

## RESEARCH EXPERIENCE

**Professor Aydogan Ozcan Research Group; UCLA Electrical Engineering Dept.** Oct 2015 - Present  
*Howard Hughes Medical Institute Undergraduate Researcher*

- Researched bovine sperm motility to explore fertility and dynamics biophysics for micro-swimmers
- Designed new experimental protocol to load sample chamber, reducing failure rate from 40% to 5%
- Collected and analyzed over 2,000 data sets with team members using lens-free 3D imaging methods
- Produced sperm trajectory maps in MATLAB environment

**pasCARE Startup; UCLA**

Jan 2016 - Mar 2017

*Co-founder*

- Launch medical device startup that reduces pressure ulcer formation via preventative monitoring
- Design device with sensors that evaluate multiple patient physiological measurements
- Devise market research strategy to measure interest of 700 care facilities and facilitate product design
- Gained valuable insight on business operations, workflow management, and team dynamics
- Won \$100,000 Lowell Milken Institute-Sandler Prize for New Entrepreneurs

**Secondary Student Training Program; University of Iowa**

June 2012 - July 2012

*Research Intern under Dr. Heather Bartlett*

- Researched genetic causes of Thoracic Aortic Aneurysms and Dissections
- Investigated N115T and R116Q mutations in the ACTA2 gene and analyzed their effects on cell growth curves, doubling times, and stress condition growth

## LEADERSHIP

**Biomedical Engineering Society; UCLA**

Oct 2014 - Present

*Industry Chair*

- Delegate tasks to Industry Committee to organize 3 – 5 company information sessions every quarter
- Evaluate past events in weekly board meetings and recommend improvements for future events

## WORK EXPERIENCE

**Engineering Science Corps Outreach Programs; UCLA**

Oct 2014 - Present

*Clerk*

- Specialized in contacting recruiters, disseminating open positions to 5000 UCLA Engineering students
- Doubled job/internship postings from 120 postings to over 250 postings
- Collaborated with ESC summer program supervisors and team to organize and process 2,500 documents from 300 applications for HSSRP and 200 applications for Tech Camp

## SKILLS

- **Software:** C++, Python, Excel VBA, MATLAB, R, AutoCAD, Unity, AWS Lex/Lambda, HTML/CSS
- **Circuitry:** Circuit assembly and debugging, breadboarding, soldering, microcontrollers