

Daniel Chien

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Goal: To obtain work experience and professional skills for developing biomedical engineering solutions in mobile health and telemedicine.

Work Experience: Signals and Systems

CreoNex Systems Inc., Westlake CA

2014-present (part-time)

Research Intern

- Conducted MATLAB simulations of signal processing algorithms used by a wideband channelizer for future 5G communications and broadband satellite systems.
- Designed MATLAB test-benches to verify/debug the algorithms and graphical user interfaces to efficiently acquire and render data in forms such as constellation diagrams.
- Conducted prior arts searches for patent submissions.

Research Experience:

Ozcan Research Group at UCLA, Los Angeles CA

December 2016-present

Research Assistant: Sperm Data Analysis project

- Principal Investigator: Dr. Aydogan Ozcan, UCLA Department of Bioengineering
- Conducted literature search on mobile health applications of sperm analysis using computer aided tools and lensfree on-chip microscopy.
- Developed graphical user interface using Qt (C++) to enable efficient image data acquisition of sperm trajectory and appearance to enable analysis such as sperm motility, overall health, speed, and population.

Cvrkel Bioethics Lab at UCLA, Los Angeles CA

June 2016-present

Research Assistant: mHealth and Big Data project

- Principal Investigator: Dr. Tiffany Cvrkel, UCLA Department of Molecular, Cell, and Developmental Biology
- Conducted research on patient privacy, consent, and data security in mHealth applications.
- Co-authored a paper for journal submission on the false comfort of de-identification. Proposed consent based approach using opt-out technology instead of stripping personally identifiable information from patient data.

Volunteering and Leadership Experience

Gobo and Friends Workshops, Cupertino CA

2013-present

Founder and Director

- Held annual summer workshops at the Cupertino library or Wilson Park.
- Recruited elementary and middle school students through self-designed website and flyers.
- Designed and taught lectures and hands-on labs on various programming languages such as BYOB, Scratch 2, Enchanting, LEGO Mindstorms NXT, and Java.

Education

University of California, Los Angeles (UCLA)

B.S. Bioengineering, Class of 2018

- Cumulative GPA: 3.271

Relevant Courses: UCLA, Los Angeles

- Introduction to Bioengineering (BE 10)
- Bioengineering Fundamentals (BE 100)
- Biotransport and Bioreaction Processes (BE 110)
- Biomedical Instrumentation (BE 120)
- Introduction to Computer Science (CS 31)
- Biomedical Ethics (MCDB 60)

Relevant Courses: Mission College, Santa Clara

- Software Development with Java (CIS 43)
- Introduction to Data Structures Using Java (CIS 44)
- Mobile Apps Programming (CIS 63)

Relevant Technical Skills

- Programming in C++ and Java
- Designing test-benches and programming in MATLAB
- Designing and creating Android apps using Java.