

RECENT PROJECTS

Elsiemade - A personal website to serve as an interactive resume and showcase a number of stylistic concepts.

[Javascript, HTML/CSS, Heroku, Lightroom, Photoshop]

Brickade - A masonry-ordered photo grid web page.

[Javascript, HTML/CSS, React, NodeJS, Github Page, Lightroom, Photoshop]

RadQA Data Repository - Designed the frontend for a web app that stores data for evaluating local MRI scanners.

[Javascript, HTML/CSS, React, Material-UI]

Task-IT - A task app, built to gain understanding in front-end development and responsive/intuitive UI design. [Javascript, HTML/CSS, React, NodeJS, Material-UI, Github Page]

WORK EXPERIENCE

Graduate Researcher @ UCI BioMEMS Lab

Jun 2017 - Oct 2018 // Irvine, CA

- Utilized agile methodologies to plan and prioritize tasks based on deadline of government grants and publications.
- Led a team of postdoctoral and PhD's for multiple projects.
- Developed a novel method to fabricate carbon nanofibers for:
 - Nanosensor for monitoring thyroid diseases (**Published**).
 - SMART water filter to specify water contaminants.
 - Improved biocathode for clean energy (**Published**).

Graduate Student @ UCI Thermoplastic Shrink Lab

Sept 2016 - Jan 2017 // Irvine, CA

- Re-evaluated biosensor on nano-structured silica films for point-of-care devices (**Published**).
- Optimized the design of multi-scale platform using gold nanoparticles for detecting specific proteins.

Research Analyst @ Rheumatology Diagnostics (RDL)

Jul 2015 - Apr 2016 // Culver City, CA

- Conducted routine device testing and troubleshooting.
- Performed data crunching and analysis to study disease trends and panels using Excel Analytics.

R&D Research Associate @ Hycor Biomedical

Jul 2014 - Jul 2015 // Garden Grove, CA

- Developed and optimized a high-throughput diagnostic medical instruments for allergy IgE test in a regulated lab environment (**Published**).
- Troubleshot both instrumental/manual assays and reported in weekly team and interdepartmental meetings.

SKILLS

LANGUAGES

Javascript, HTML, CSS

LIBRARIES & FRAMEWORKS

Material-UI, React, Express, Bootstrap

TOOLS & PLATFORMS

Git, Github Page, Heroku, Appbase.io, MS Office, Postman, MongoDB, NodeJS

DESIGN / EDITING

Adobe Lightroom, Photoshop, Premier Rush

OTHERS

Technical Writing, GANTT, Scrum, Agile, SOP, FMEA, Root Cause Analysis (RCA)

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

M.S. Biomedical Engineering (2018)

UNIVERSITY OF CALIFORNIA, SAN DIEGO

B.S. Biochemistry/Cell Biology (2014)

PUBLICATIONS/PATENTS

1. **Cho et al.**, Serological Assay for Diagnosis of Myositis, 10th ICA, Germany (2016).
2. **USPTO WO2017011560A1** - Customizable Instrument (2017).
3. **Kassan et al.**, CAV-3 plays a critical role in autophagy, AJP (2016).
4. **Lin et al.**, Multi-scale silica for improved POC, Irvine, CA (2017).
5. **Cho et al.**, Rapid Iodine sensing on carbon nanofibers, Sensors (2018).
6. **Cho et al.**, Enhanced Bioelectrocatalytic Reduction of O₂ by LAC on N-rich carbon nanofibers, ECS, Seattle, WA (2018).
7. **Holmberg et al.**, Carbon nanofibers for electrochemical platforms.

INTERESTS

Photography/Photo Editing, Camping, Rock-climbing,