

UYEN NGUYEN

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GitHub: <https://github.com/uyennguyen30696>

Portfolio (React.js): <https://uyennguyen30696.github.io/react-portfolio/>

EXPERIENCES

Graduate Student Researcher

February 2023 - Present

Benedict Paten's Lab at UCSC

Santa Cruz, CA

- ❖ Associated with the MERFISH human lung cancer cell type prediction project in the spatial transcriptomics team. This analysis includes the evaluation of cell type annotation tools, the annotation of cell types within the samples, distinguishing between healthy and cancer cells, and exploring differential gene expression among these cell types within different histological regions.
- ❖ Presenting in lab meetings about related research topics
- ❖ Demo code: https://github.com/uyennguyen30696/spatial_transcriptomics_demo

Teaching Assistant

September 2022 - June 2023

University of California, Santa Cruz

Santa Cruz, CA

- ❖ Courses: CSE 20 (Beginning programming in Python), CSE 183 (Web applications), Chem 8A (Organic chemistry)
- ❖ Conducted discussion sessions and prepared slides for supplementary materials
- ❖ Proctored exams, graded assignments, and provided constructive feedback for students

Research Associate

May 2021 - August 2022

Cantata Bio, LLC

Scotts Valley, CA

- ❖ Associated with TopoLink assay development project in the R&D team that was successfully launched in June 2022
- ❖ Prepared libraries for Next Generation Sequencing
- ❖ Operated Next Generation Sequencing instruments, including MiniSeq, MiSeq, and NextSeq
- ❖ Engaged in meetings and journal clubs to stay updated on recent biotechnology advancements
- ❖ Maintained records of incoming shipments of all lab resources and inventory control
- ❖ Participated in hiring interview process of research associate role

Grossing Technician

September 2019 - November 2020

California Skin Institute

Los Gatos, CA

- ❖ Maximized efficiency by preparing patient tissues for specimen processing in fast-paced environment
- ❖ Generated pathological descriptions, filed tissue blocks and slides according to protocols
- ❖ Accessioned clinical information for skin biopsy samples using IntelliPath software
- ❖ Preserved chemical resources to save possibly thousands of dollars while ensuring the maintenance of the tissue processor
- ❖ Participated in training of new lab technicians

EDUCATION

M.S., Biomolecular Engineering & Bioinformatics

University of California, Santa Cruz

September 2022 - Present

Santa Cruz, CA

Certificate, Full Stack Web Development

UC Davis Continuing and Professional Education

September 2020 - March 2021

Remote

- ❖ Fundamental concepts of web development, command line, and API consumption
- ❖ Working with servers, databases, back end technologies, and connecting them to the front end
- ❖ Optimize web applications for speed and efficiency

B.S., Biochemistry and Cell Biology

University of California, San Diego

August 2017 - August 2019

La Jolla, CA

A.A., Liberal Arts - Science, Math & Engineering

De Anza College

June 2014 - May 2017

Cupertino, CA

SKILLS

Programming languages & Technologies

- ❖ Languages: Python, R, Javascript
- ❖ Libraries: numpy, pandas, scanpy, matplotlib, scikit-learn, squidpy
- ❖ Web technologies: HTML5, CSS, React.js, Vue.js
- ❖ Version control & deployment: Visual Studio, Jupyter Notebook, Git/GitHub
- ❖ Databases: SQL, MongoDB
- ❖ Object-oriented programming

Laboratory

- ❖ Pipetting, sterile technique, PCR, qPCR
- ❖ Next Generation Sequencing, library preparation, DNA purification
- ❖ Tissue processing, sectioning
- ❖ Operating instruments: thermocycler, light microscope, centrifuge, TapeStation, tissue processor