

WORK EXPERIENCE

<b>Sonepar USA</b> <i>Applications Developer II</i>	<b>April 2022 – September 2023</b> <i>Remote</i>
<ul style="list-style-type: none"><li>▪ Utilized Python ML libraries to perform association rules mining on customer data to generate product catalogue insights</li><li>▪ Implemented data preprocessing and cleaning pipelines in Python</li><li>▪ Designed and implementing machine learning pipelines in Azure</li><li>▪ Collaborated with stakeholders to understand business challenges and identify machine learning opportunities</li><li>▪ Communicated technical concepts to both technical and non-technical executive leaders</li><li>▪ Developed RESTful APIs with Flask and FastAPI to serve cloud deployed machine learning services</li><li>▪ Researched, developed, and demonstrated a novel 3D container packing heuristic to meet business needs</li><li>▪ Researched and validated approaches to customer wallet-share estimation</li><li>▪ Utilized dimensionality reduction techniques to visualize customer data</li></ul>	
<b>Eurofins Lancaster Laboratories</b> <i>Research Associate, Flow Cytometry</i>	<b>October 2020 – September 2021</b> <i>South San Fransisco, CA</i>
<ul style="list-style-type: none"><li>▪ Performed high-dimensional immunophenotyping of primary human immune cells with spectral flow cytometry</li><li>▪ Conducted Fluorescence Activated Cell Sorting (FACS) on a variety of cell types</li><li>▪ Analyzed high-dimensional biological data with machine learning techniques</li><li>▪ Applied R to analysis of high-dimensional Flow Cytometry</li><li>▪ Processed and performed IHC staining of primary human cells for spectral flow cytometry</li><li>▪ Instructed scientists on the operation of flow cytometers, high-throughput samplers (HTS), and software</li><li>▪ Reviewed literature in Immunology, Cancer-Immunotherapy, Biotechnology, and Artificial Intelligence</li><li>▪ Performed system startup, QC, troubleshooting, and shutdown for 7 FACS instruments</li><li>▪ Utilized Electronic Laboratory Notebook (ELN) system to document and archive experimental results</li></ul>	
<b>UCSB Neuroscience Research Institute – Reese Lab</b> <i>Lab Assistant</i>	<b>September 2019 – October 2020</b> <i>Santa Barbara, CA</i>
<ul style="list-style-type: none"><li>▪ Utilized MATLAB to simulate and compare retinal cell mosaics with spatial statistics to gain insight into developmental rules of cell types within the mouse retina</li><li>▪ Mined Sanger mouse genome database to locate variants of interest and cross-referenced results with eQTL data and literature</li><li>▪ Identified 16, alternatively spliced, candidate genes which may play a role in central nervous system development</li><li>▪ Performed immunostaining and quantification of whole-mount mouse retinas, imaged with flourescence microscopy</li><li>▪ Trained in mouse eye dissection and retinal extraction</li></ul>	

PUBLICATIONS

Patrick W. Keeley, Mikayla C. Lebo, **Jordan D. Vieler**, Jason J. Kim, Ace J. St. John, and Benjamin E. Reese. “Interrelationships between Cellular Density, Mosaic Patterning, and Dendritic Coverage of VGluT3 Amacrine Cells”. In: *Journal of Neuroscience* 41.1 (2021), pp. 103–117. ISSN: 0270-6474. DOI: 10.1523/JNEUROSCI.1027-20.2020

EDUCATION & CERTIFICATES

<b>University of California, Santa Barbara</b> <i>B.S., Cell and Developmental Biology</i> <i>Certificate in Technology Management</i> <i>UCSB Men’s Rowing Team — Oarsman</i>	<b>June 2020</b>
<b>Certificates</b>	<b>Stanford Online</b> – Machine Learning, Feb. 2021 <b>Deeplearning.AI</b> – Deep Learning Specialization, Jul. 2021 <b>Nvidia Deep Learning Institute</b> – Jetson Nano Fundamentals, Sep. 2021 <b>Databricks</b> – Databricks Lakehouse Fundamentals, Feb. 2023

SKILLS & PROJECTS

<b>Technology</b>	Linux, Unix Utils, Azure, Containerization (OCI, LXC), Networking, git, $\LaTeX$ <b>Languages:</b> Python, R, C, SQL, Bash, Lua, Rust, MATLAB <b>Libraries:</b> NumPy, Pandas, Matplotlib, Pytorch, Tensorflow, Plotly, SKLearn, FastAPI, Flask
<b>Laboratory</b>	Flow Cytometry, FACS, HTS, Immunohistochemistry, Sterile Technique, Cell Culture, CRISPR, DNA & Protein Purification, Transfection, Transformation, PCR, Gel Electrophoresis, Bioinformatics
<b>Projects</b>	<b>Hack Computer:</b> Created a general purpose computer from NAND gate primitives <b>Taxonomic Identification with ResNet-18:</b> Created RGB image representations of rRNA sequences and utilized pre-trained ResNet-18 to predict sequence identity