Jordan Vieler

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WORK EXPERIENCE

UCSB Neuroscience Research Institute – Reese Lab **September 2023 – Present**
Volunteer *Remote*
- Developing computer vision pipelines to perform automated quantification of cell-types in the mouse retina

Sonepar USA **April 2022 – September 2023**
Applications Developer II *Remote*
- Researched and developed a novel 3D-container packing system to enable new warehouse workflows and reduce number of boxes used by approximately 34%
- Implemented RESTful APIs with Flask and FastAPI to serve cloud deployed machine learning services
- Developed automated CI/CD pipelines to build and deploy container images serving machine learning applications
- Created a customized Linux image to support current and future machine learning workflows on hybrid infrastructure
- Utilized software development best practices and tools including: agile, CI/CD, git and good documentation habits
- Effectively communicated technical details, project plans and findings to executive leaders and stakeholders
- Created visualizations to communicate data insights and technical topics
- Crafted SQL queries and utilized database connectors for company AzureSQL and Snowflake databases

Data Science and Machine Learning Consultant *Broomfield, CO*
- Designed, implemented, tested and deployed innovative applications of Machine Learning and Data Science
- Researched and Validated machine learning based approaches to customer wallet-share estimation
- Utilized Python ML libraries to perform association rules mining on customer data to generate marketing insights
- Developed and demonstrated a proof of concept product recommendation system
- Architected and Implemented automated data processing and cleaning pipelines in Python on Azure cloud infrastructure

Eurofins Lancaster Laboratories **October 2020 – September 2021**
Research Associate, Flow Cytometry *South San Fransico, CA*
- Conducted Fluorescence Activated Cell Sorting (FACS) for a variety of cell types and downstream assays
- Performed high-dimensional immunophenotyping of primary human immune cells with spectral Flow Cytometry
- Analyzed high-dimensional biological data with traditional and machine learning based techniques
- Processed and performed Immunohistochemical(IHC) staining of primary human cells
- Trained scientists on the operation of flow cytometers, high-throughput samplers (HTS), and software
- Reviewed literature in Immunology, Cancer-Immunotherapy, Biotechnology, and Artificial Intelligence
- Performed system startup, QC, troubleshooting, and shutdown for 7 FACS instruments

UCSB Neuroscience Research Institute – Reese Lab **September 2019 – October 2020**
Lab Assistant *Santa Barbara, CA*
- Utilized MATLAB to simulate mouse retinal cell distributions to gain insight into the developmental rules of the retina
- Mined bioinformatics databases, eQTL data, and scientific literature to locate genetic variants of interest
- Identified 16, alternatively spliced, candidate genes which may play a role in central nervous system development
- Performed immunostaining and quantification of whole-mount mouse retinas, imaged with fluorescence microscopy

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

University of California, Santa Barbara **June 2020**
B.S., Cell and Developmental Biology
Certificate in Technology Management
UCSB Men's Rowing Team — Oarsman

SKILLS

Technology	Linux, Unix Utils, Azure, GCP, Snowflake, Containerization (OCI, LXC), Networking, ImageJ, git ***Languages:*** Python, C, Rust, Lua, MATLAB, R, Bash, SQL, Javascript, CSS, HTML, LaTeX ***Libraries:*** NumPy, Pandas, Matplotlib, Pytorch, Tensorflow, Plotly, SKLearn, FastAPI, Flask
Laboratory	Flow Cytometry, FACS, HTS, Immunohistochemistry, Histology, Cell Culture, CRISPR, DNA & Protein Purification, Transfection, Transformation, PCR, Gel Electrophoresis, Bioinformatics