

Stephen Kocsis

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SKILLS

- Programming Languages: R, Python, Bash shell scripting, SQL, HTML5, CSS3
 - Pipeline/Workflow Development: Docker, Nextflow, Slurm
 - Technologies: High Performance Computing, Cloud Computing, Linux/Unix, Git, GitHub, Jupyter Notebook, Anaconda, MySQL
 - Data Analysis: RNA-seq, scRNA-seq, ChIP-seq, smRNA-seq, proteomics, WGS, WES, Statistical Analysis
 - Machine Learning Tools: Scikit-Learn, PyTorch
 - Data Management: Data Preprocessing, Quality Control, Analysis Documentation
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WORK EXPERIENCE

Mayo Clinic, Jacksonville, FL, USA

Research Technologist

July 2022 – Present

- Performed next generation sequencing data analysis using advanced bioinformatics tools and statistical computing.
- Developed and optimized next generation sequencing data analysis pipelines utilizing containerized approaches in docker, nextflow, and slurm.
- Managed large-scale genomic datasets, ensuring quality control and data preprocessing.
- Led several next generation sequencing data analysis projects for both discovery research and clinical research.
- Analysis of clinical sequencing data led to direct patient care changes within the clinic.
- Led datamining projects including publically available RNA-seq and scRNA-seq data.
- Trained lab employees and students in RNA-seq data analysis pipelines.
- Mentored a SPARK student who conducted a statistics-based clinical data analysis project.
- Collaborated with bioinformatics teams for multi-omics data integration and analysis.
- Served as main point of contact and administrator for the Fairweather lab.
- Managed lab finances and routinely managed research funding accounts, regularly meeting with the Mayo Clinic financial team.

Mayo Clinic, Jacksonville, FL, USA

Special Project Associate II

January 2021 – July 2022

- Worked on experimental and computational projects in Neuroscience and Cardiovascular Medicine.
- Handled administrative lab tasks and led sequencing data analysis projects.
- Collaborated with bioinformatics teams for multi-omics data integration and analysis.
- Presented research findings at lab meetings and the Midwest Motoneuron Consortium.

- Gained comprehensive skills in biomedical research, computational biology, and multi-omics data analysis.

University of North Florida, Jacksonville, FL, USA

Directed Independent Study Researcher

May 2019 – February 2020

- Maintained lab compliance with safety guidelines and ensured equipment functionality.
- Conducted research on *Klebsiella pneumoniae* to understand mutations over incubation periods.
- Documented experimental progress and compiled data for analysis.

EDUCATION

Johns Hopkins University, Baltimore, MD, USA

M.S. in Bioinformatics 2023 – current

University of North Florida, Jacksonville, FL, USA

B.S. in Biology 2020

TRAINING & RELEVANT COURSES

- Applied Machine Learning, Johns Hopkins University
- Advanced Practical Computer Concepts for Bioinformatics, Johns Hopkins University
- Epigenomics from Bioinformatics CA
- RNA-seq Data Analysis, The University of Edinburgh
- Single Cell RNA-seq Data Analysis, UC Davis
- R for Research Scientists, Bio-Trac
- Computational Genomics, Mayo Clinic Center for Individualized Medicine and Illinois University
- Linux for Genomics, The University of Edinburgh
- Python 3.0, Codecademy