

KEVIN J. ANDERSON

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PERSONAL STATEMENT

Graduate Bioinformatics student with 5 years of relevant coursework and over 2 years of internship/job experience. Have written GWAS/RNA-seq pipelines in R and BASH via a remote, HPC environment. Have experience working on an agile methodology team on Github. Seeking to receive more hands-on experience within a commercial work environment, and meet other enthusiastic Bioinformaticians.

SKILLS

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| Programming languages: | R, Python, Java, Javascript, Node.JS/Express, Bash, Git |
| Databases: | MySQL, Sqlite. Cypher |
| Markup languages: | R-Markdown, LaTeX, HTML, CSS, PUG |
| Other computational experience: | High-Performance Computing, MS Office, Sony Vegas, Adobe Creative Cloud |

EDUCATION

University of Pittsburgh • Pittsburgh, PA Expected Graduation: April 2022
Masters of Science • Genome Bioinformatics
Coursework: Genomic Data Pipelines/Visualization, Molecular Basis of Disease, Population Genetics

University of Pittsburgh • Pittsburgh, PA Graduated : April 2020
Bachelors of Science • Bioinformatics & History Minor
Coursework: Data Science, Applied Regression, Macromolecular Structures, Genetics, Algorithm Implementation

EXPERIENCE

Bioinformatics Analyst – UPMC Children's Hospital July 2019 – May 2020
Pittsburgh, PA

- Processed bulk RNA-seq samples from more than 1000 patients to analyze their immune profiles, and characterize the TCR repertoire
- Deployed customized analysis pipelines and workflows using R
- Established automated RNA-seq analysis pipelines for the Bioinformatics Core using NextFlow

Biostatistics Intern – University of Pittsburgh Department of Biostatistics April 2017 – September 2017
Pittsburgh, PA

- Worked with a PhD candidate to help create and publish his statistical package on copula-based bivariate interval-censored data modeling on Age-related Macular Degeneration (AMD)
- Contributed to the manuscript for the R package
- Developed a webpage as a platform for a department assistant professor's CV

Werner H. Kirsten Student Intern – National Cancer Institute June 2015 – July 2016
Frederick, MD

- Familiarized with version control, and worked collaboratively with other researchers via Github
- Optimized GWAS (Genome-Wide Association Study) data within an R package specializing in linkage Mapping by Admixture Linkage Disequilibrium (MALD)
- Presented a poster on parallel computing and the ALD R statistical package at the National Cancer Institute's Spring Research Festival

PROJECTS

EctothermER: Frogs Under the Weather – Pitt Bio Outreach Program January 2020 – April 2020
Pittsburgh, PA

- Worked with the Pitt Department of Biological Science's Outreach Program to help facilitate real scientific experiments and analysis to middle/high school classrooms all around the country
- Developed a website that is the central hub for teachers to access all the handbook materials and relevant information needed for the module, as well as a place for schools to input and visualize data collected from their location using RShiny
- Worked with a small team in an agile methodology workflow which includes bi-weekly meetings with client and advisor to present our progress and receive feedback

EXTRA CURRICULAR ACTIVITIES

- Delta Sigma Phi Fraternity - Risk Manager Officer
- University of Pittsburgh Men's Ice Hockey Club - Player/Business Manager