

KEVIN J. ANDERSON

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EDUCATION

University of Pittsburgh • Pittsburgh, PA
Bachelors of Science • Bioinformatics & History Minor

Expected Graduation : April 2020

EXPERIENCE

Bioinformatics Analyst – UPMC Children's Hospital
Pittsburgh, PA

August 2019 – Present

- 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

Undergraduate Intern – University of Pittsburgh Department of Biostatistics
Pittsburgh, PA

July 2017 – November 2017

- Worked with a grad student in the group of Dr. Ying Ding to create and publish his statistical package on copula-based bi-variate 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
Frederick, MD

June 2015 – July 2016

- Familiarized with version control, and worked collaboratively with other researchers via Github
- Optimization and parallelization of genetic data in R utilizing Genome Wide Association Study (GWAS) and Mapping by Admixture Lineage Disequilibrium (MALD)
- Presented a poster on parallel computing and the ALD R statistical package at the National Cancer Institute's Spring Research Festival

Facilities Attendant – University of Pittsburgh Department of Recreation
Pittsburgh, PA

April 2019 – Present

- Run the day-to-day operations inside the various recreational facilities on campus such as opening, cleaning/maintenance, and closing
- Provide helpful services to facilities patrons such as renting out equipment, providing information about the facilities and leading impromptu tours

PROJECTS

EctothermER: Frogs Under the Weather – Pitt Bio Outreach
Pittsburgh, PA

January 2020 – Present

- Working with the Department of Biological Science's Outreach Program to create a website that is the central hub for teachers to access the introductory video. All of the handbook materials needed for the module, as well as a place for schools to input data collected from their location so that the lab can easily access those data and use it in their research
- Working with a small team in an agile methodology environment which includes bi-weekly meetings with customer and advisor to present our progress and receive feedback

TECHNICAL SKILLS

- Relevant Courses: Computational Genomics, Data Science, Applied Regression, Algorithm Implementation, Genetics
- Programming languages: R, Python, SQL, Cypher, Java, Javascript, Bash, Git
- Markup languages: R-Markdown, LaTeX, HTML, CSS
- Other computer experience: High-Performance Computing, MS Office, Sony Vegas, Adobe Creative Cloud

EXTRA CURRICULAR ACTIVITIES

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