

SKYLER A. KUHN

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Technical Skills:

Operating Systems	Unix, Linux, Windows, OSX
Programming Languages	Python, Java, R, SQL, HTML, BASH, Fortran F90
Development Environments	PyCharm, Eclipse, Emacs
Other Computing Skills	Command-line interfaces, SAS, Django, Git/Github, High-Performance Computing, Statistical Learning

Education:

James Madison University , <i>Center for Genome and Metagenome Studies</i>	Harrisonburg, Virginia
Bachelor of Science, Biology	May 2014
Virginia Commonwealth University , <i>Center for the Study of Biological Complexity</i>	Richmond, Virginia
Professional Science Master's, Bioinformatics	August 2017
• Graduate GPA: 3.857	

Development Experience:

Software Developer for *Dr. Tarynn Witten, Dr. Alberto Cano*, Center for the Study of Biological Complexity
Biodemography | Combinatorial Optimization | Data-Mining | WHO Feb. - June 2017

- Devised a novel method for utilizing frequent item-set data mining techniques in exhaustive combinatorics to find conserved patterns in the different global causes of mortality

Back-End Web Developer for *Dr. Peter Uetz*, Center for the Study of Biological Complexity
Django | mySQL | MVC | Relational Database Design | Normalization Jan. - May 2017

- Developed a three-tiered web application with a small team that provides a catalogue of all living reptile species and their classification; currently there are more than 10,000 species including another 2,800 subspecies
- Database focuses on taxonomic data (i.e. names and synonyms), distribution information, and literature references

Scientific Programmer for *Dr. Amanda Dickinson* at Virginia Commonwealth University
Bioinformatics | Proteomics | Homology Modeling | Python Dec. 2016 - Jan. 2017

- Developed a custom software tool used to calculate and compare percent identities of different open reading frames of homologous mRNA sequences across various model organisms

Bioinformatician for *Dr. Maria Rivera* at Virginia Commonwealth University
Bioinformatics | Metagenomics | Big-Data Analysis | Microbiome Jan. - Aug. 2016

- Conducted a metagenomic analysis on shotgun-sequenced deoxyribonucleic acid to characterize shifts in microbial communities of mice with long-term opioid exposure
- Characterized effects of long-term opioid exposure on gastrointestinal microbial pathogenesis in mice have extended and validated earlier clinical correlative observations

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Academic Development:

Graduate Teaching Assistant for Applications in Bioinformatics

BNFO 420 | Python | Capstone-Class | mySQL | Drug Discovery *Jan. - May 2017*

- Demonstrated ability to communicate highly technical information in a clear and concise manner for the development of novel tools and methods to fight against the Influenza virus
- Addressed the needs of fifteen students by imparting direct, integrative expertise in the form of computational, quantitative, and biological knowledge

Graduate Advisor for VCU's Student Technology Advisory Committee

Virginia Commonwealth University Technology Services | Consulting *Sep. 2016 - May 2017*

- Advised and assisted VCU technology services in the design and implementation of matters related to service design, programming, and promotion of technology

Graduate Teaching Assistant for Computing Skills & Concepts for Bioinformatics

BNFO 201 | Python | Effective Communication *Aug. - Dec. 2016*

- Evaluated thirty-three students' homework and programming projects related to algorithm design, implementation and bioinformatics analysis
- Maintained help sessions twice a week and provided constructive feedback for students with questions

Graduate Teaching Assistant for a programming class taught to Faculty, Staff, and Students

Center for the Study of Biological Complexity | Python | Pipeline Development *January 2016*

- Provided support and guidance in a fast-paced, week-long introduction to programming and pipeline development to aid faculty, staff, and students in their research

Research Assistant for Dr. Raymond Enke at James Madison University

Molecular Biology | Epigenetics | Genomics *May - Aug. 2014*

- Investigated the role of epigenetic modifications, specifically deoxyribonucleic acid methylation patterning, in the regulation of retina-specific genes
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