ROBERT D. BONEY

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EDUCATION

Washington State University Vancouver (WSUV)   **Timeline:**   Fall 2014 – Spring 2019
B.S. Computer Science (Expected)   **Cumulative GPA To Date**:   3.33

EXPERIENCE

Coffin Lab, WSUV   *Fall 2014 - Present*
Researcher & Programmer
Python data analysis and visualization • Multiple-Sequence alignment • Programmed lab calculators • Conference poster presentation • Grant writing • Wet bench dose response experiments

TECHNICAL SKILLS

Languages: Python, C#, Bash, Perl, Javascript, C, HTML 5, CSS 3

Tools: Git, Github, Jupyter Notebooks, File Zilla, NCBI Entrez Api, Ensembl Perl Api, AWS EC2, Microsoft Office

Operating Systems: Linux/Rasbian, OSX, Windows

DTC Technology: Pixelmator, Photoshop, Ableton Live 9 (music production),

PORTFOLIO

Protein Analysis Scripts | (Python / Perl)
Script library for protein comparison projects. Includes site by site analysis, Ensembl database querying, NCBI database querying, dataset cleaning with pandas, multithreaded implementation of multiple sequence alignment using MUSCLE and reciprocal blast computation and analysis.

Naïve Bayes | (Javascript)
Small web app using Naïve Bayes document classification for small training and classification examples.

Todu | (Python)
Command line application for managing a to-do list able to add tasks, remove tasks, track days till due date, sort by name or due date, flag tasks with update memos, and categorize tasks by grouping.

Serial Dilution App | (Javascript / Html)
Frontend web app to calculate concentrations for a serial dilution given a stock concentration. This app is now the signature way our lab calculates serial dilutions.

ACCOMPLISHMENTS

- **Natural bizbenzoquinoline derivatives protect zebrafish lateral line sensory hair cells from aminoglycoside toxicity.** Matthew Kruger, **Robert Boney**, Alexander Ordoobadi, Thomas F. Sommers, Josef G. Trapani, Allison B. Coffin (*Published 2016*). Frontiers in Cellular Neuroscience. doi: 10.3389/fncel.2016.00083
- **WSU Vancouver Research Showcase**: 1st place undergraduate podium talk (2017)
- **Auvil Undergraduate Research Fellowship** Award for 2017/2018
- **"Best Poster – Student's Choice"** Award at the 2016 Northwest Regional Developmental Biology
- **WSU Vancouver Neuroscience Mini-Grant** (2016)