Skyler Hallinan

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EDUCATION

University of Washington, Seattle, WA *Expected June 2021*
Prospective B.S. in Bioengineering and Applied Math

- GPA: 3.76/4.0

Bainbridge High School, Bainbridge Island, WA *June 2017*

- GPA: 3.99/4.0
- National AP Scholar, Biomedical Engineering Club Member, Math Club President

RELEVANT SKILLS

Lab: Pipetting, titration, chromatography, light microscopy, filtration, spectrophotometry, general dissections, PCR and gel electrophoresis
Languages: Java, R
Experience with Python, Matlab, HTML, CSS
Design: Inventor, Flashprint

EXPERIENCE AND PROJECTS

Undergraduate Researcher, Dey Lab, Fred Hutch
June 2018 – Present

- Filtered through BLAST results of UniRef and target UniProt sequences to identify useful genes matches, and subset metagenomic datasets with these genes
- Explored relationships between bile salt hydrolase genes and relative abundance of various metabolic pathways through model utility tests and correlation tests in R
- Implemented data visualization packages such as ggplot2 for presentation of results
- Presented scientific papers on gastroenterology advancements as well as own research in monthly lab meetings

Infant Hydration Monitor Team, Bioengineers Without Borders, University of Washington
September 2017 – Present

- Discussed and designed numerous prototypes of infant hydration monitor targeted towards low-resource countries in Inventor and tested feasibility via 3D printing
- Worked collaboratively with other subgroups to establish device constraints

Statistical Analysis Intern, IslandWood, Bainbridge Island
July 2017 – August 2017

- Analyzed relationships between race/income and camp attendance across 10 years of demographic data via multivariate analysis, ANOVA, and correlation tests in R
- Recommended solutions to community access problems in final presentation to IslandWood board of education

RELEVANT COURSES

"BIOL 180-220 (Intro Biology Series)"
"CHEM 237 (Organic Chemistry I)"
"STAT 390 (Calculus-based Statistics)"
"MATH 308 (Linear Algebra)"
"CSE 143 (Intro to Java II)"
"AMATH 301 (Intro to Matlab)"