AINSLEY LAI

Applied Mathematics & Informatics Undergraduate

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**** 253-219-5315

Renton, WA

EXPERIENCE

Undergraduate Research Intern

Institute for Systems Biology

June 2022 - August 2022

Seattle, WA

- Worked under the Hadlock lab as part of the Summer Undergraduate Research Experiences Program
- Conducted data processing via PCA, data smoothing using a signal processing filter, and interpolation on a longitudinal dataset using Google Cloud Compute
- Used pySINDy (symbolic and sparse regression) to build equation models and investigate effects of noise in data analysis and machine learning on biological systems

Cashier

Albertsons

Operated POS system and provided customer service

NRFU Enumerator

U.S. Census Bureau

July 2020 - Sept 2020

▼ Tacoma, WA

• Aided the 2020 decennial census Non-Response Follow-Up operation by assisting in federal population data collection

PROJECTS

Survey of Laser Models

- Academic review paper that explores three different equation models for lasers.
- Link: Here

U.S. Gun Violence Visualization

- A collaborative data visualization of American gun violence using R-Shiny and tidyverse.
- Website: https://ainslai.shinyapps.io/info201-af3-groupfinal/

RELEVANT COURSEWORK

AMATH 301 - Beginning Scientific Computing AMATH 383 - Intro to Mathematical Modeling CSE 373 - Data Structures and Algorithms

Current Courses:

AMATH 481 - Scientific Computing CSE 414 - Intro to Databse Systems

EDUCATION

B.S., Applied Mathematics & Informatics

University of Washington

m Sept 2020 - June 2024

Double degree GPA - 3.93

AAS-DTA, Associate's in Arts & Sci-

Bellevue College

M Sept 2018 - June 2020

GPA - 3.92

STRENGTHS

Hard-working Analytical **Problem Solving Detail-Oriented** Eager to learn Team-oriented

SKILLS



ACHIEVEMENTS

- Consecutive Dean's List
- Graduated Bellevue College with High Distinction
- Graduated top 7% of high school class

INTERESTS

Technical

- Interest in computational mathematics
- Data science and analysis
- · Data and Signal processing
- Numerical modeling

Extracurriculars

- Applied Analytics Club
- Table Tennis