

# AINSLEY LAI

## Applied Math & Informatics Undergraduate

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📍 Renton, WA

## EXPERIENCE

### Undergraduate Research Intern

#### Institute for Systems Biology

📅 June 2022 – August 2022 📍 Seattle, WA

- Working under the Hadlock lab as part of the Summer Undergraduate Research Experiences Program
- Used pySINDy to build model equations from data in a way similar to symbolic regression and investigate effects of noise in data and machine learning

### Cashier

#### Albertsons

📅 July 2020 – October 2020 📍 Renton, WA

### NRFU Enumerator

#### U.S. Census Bureau

📅 July 2020 – Sept 2020 📍 Tacoma, WA

- Worked with the U.S. Census Bureau to aid the 2020 decennial census Non-Response Follow-Up operation
- Assisted in federal population data acquisition

## ACHIEVEMENTS

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

## RELEVANT COURSEWORK

### CSE 142/3 – Computer Programming I-II

- Procedural programming, control sequence, objects, and data abstraction/encapsulation using Java

### CSE 373 – Data Structures and Algorithms

- Lists, stacks, trees, queues, directed graphs, search/sort

### INFO 201 – Technical Foundations

- Git/Github and R (tidyverse). Collaborated to create a data visualization website of American gun violence using R-Shiny
- Website: [ainslai.shinyapps.io/info201-af3-groupfinal/](https://ainslai.shinyapps.io/info201-af3-groupfinal/)

### AMATH 301 – Beginning Scientific Computing

- Python for visualization and numerical programming of linear algebra and differential equations using Numpy, Scipy, and Matplotlib

### AMATH 353 – Partial Differential Equations and Waves

- Traveling waves of nonlinear equations, dispersion relation, stability, superposition and Fourier analysis, d'Alembert solution

## EDUCATION

### B.S., Applied Mathematics & Informatics

#### University of Washington

📅 Sept 2020 – June 2024

Double degree

GPA – 3.92

### AAS-DTA, Associate's in Arts & Sciences

#### Bellevue College

📅 Sept 2018 – June 2020

GPA – 3.92

## STRENGTHS

Hard-working

Analytical

Problem Solving

Detail-Oriented

Eager to learn

Team-oriented

## INTERESTS

### Technical

- Interest in computational mathematics.
- Tutoring family & friends math
- Data analysis
- Scientific computing
- Mathematical modeling

### Extracurriculars

- Applied Analytics Club
- Table Tennis

## SKILLS

Google Suite

Microsoft Office

MATLAB

Python

R

Java

Git

## LANGUAGES

English

Cantonese

