

# Jasper M. Dong

(925) 389-2017 | jasper.dong.2003@gmail.com | www.linkedin.com/in/jmudong

## Education

### University of Washington - Seattle

M.S. in Statistics - Advanced Methods & Data Analysis

*Expected Graduation: March 2027*

### University of California - Davis

B.S. in Statistics - Statistical Data Science Track

*2021 - 2025*

*GPA: 3.83*

Minor in Geographic Information Systems

*Honors:* Dean's Honor List (Fall 2021, Spring 2022, Fall 2022, Winter 2025)

*Activities:* Davis Data Science Club, HackDavis

## Experience

### Statistics Tutor - University of Washington, Department of Statistics

*Present*

- Assisted undergraduate students in introductory statistics courses with topics in probability, statistical inference, computation, and data analysis
- Motivated students in developing practical statistical reasoning skills with applications to engineering and social sciences

### Research Assistant - Computational Climate and Ocean Group

*2024 - 2025*

*Advisor: Maike Sonnewald*

- Performed exploratory data analysis and data preprocessing on large data sets (~1.2 million observations) using Python libraries and high performance computing tools
- Combined the use of manifold learning and agglomerative clustering to identify unique ocean regions of interest based on different physical parameters
- Implemented a point-based Chi-Square Test of Independence to ensemble clustering results for use as a clustering parameter validation method

## Projects

### HouseCat - HackDavis

*2024*

- Worked with in team-setting to implement web-based database application displaying local housing listings
- Set up Node.js and React.js interfaces to connect with MongoDB database containing web-scraped housing listings from community Facebook housing groups
- Presented and demonstrated prototype to students and industry professionals

## Skills

**Programming Languages:** Python, R, C++, Java, MATLAB, SQL, XPath, HTML, CSS, JavaScript, LaTeX

**Skills:** EDA, Data Analysis, Machine Learning, Model Validation, Hypothesis Testing, Database Systems

**Software:** SLURM, Tableau, MongoDB, ArcGIS Pro, Google Earth Engine

**Spoken Languages:** English, Chinese, Japanese, Dutch

**Relevant Coursework:** Applied Statistical Methods, Statistical Computing, Data & Web Technologies, Data Structures, Statistical Learning, Mathematical Statistics, Experimental Design, Applied Linear Algebra, Discrete Mathematics, Database Systems