

Jasper M. Dong

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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

Minor in Geographic Information Systems

GPA: 3.83

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 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