

Jasper M. Dong

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Education

University of California - Davis

Expected Graduation: June 2025

Bachelor of Science in Statistics - Statistical Data Science Track

GPA: 3.829

Minor in Geographic Information Systems

Honors: Dean's List (Fall 2021, Spring 2022, Fall 2022)

Activities: Davis Data Science Club, HackDavis

Relevant Coursework: Statistical Data Science, Data & Web Technologies, Statistical Learning, Time Series Analysis, Mathematical Statistics, Discrete Mathematics, Applied Linear Algebra, Introduction to GIS

Experience

Research Assistant - Computational Climate and Ocean Group

2024 - Present

Advisor: Maike Sonnewald

- Performed exploratory data analysis and data preprocessing on large data sets (~1.2 million observations) and high dimensional data using Python libraries
- Combined the use of manifold learning and agglomerative clustering to identify unique ocean regions of interest based on different physical parameters
- Attended weekly discussion meetings with research group on various relevant papers and current topics in the field

General Member - Davis Data Science Club

2022 - Present

- Worked with peers on quarter-long projects involving data analysis and implementation of machine learning methods
- Gained exposure to the application of basic data science tools through participation in club workshops
- Connected with other students in the industry on various modern data science topics in socials and meetings

Projects

HouseCat - HackDavis

2024

- Worked with a team to implement web-based database application in order to scrape and render online community housing postings into interactive user interface
- Worked on setting up Node.js and React.js frameworks to connect with MongoDB database
- Presented and demonstrated prototype to judges of fellow students and industry professionals

Climate Change Analysis - Davis Data Science Club

2023

- Worked with a team to explore dataset of global temperature patterns using pandas and numpy libraries
- Created visualizations using matplotlib and seaborn libraries, such as correlation plots and heatmaps
- Presented findings to convey purpose and methods to students and peers

Skills

Programming Languages: Python, R, MATLAB, SQL, HTML, CSS, JavaScript, LaTeX, Regex, XPath

Skills: EDA, Machine Learning, Full Stack Development, Database Management, Statistical Analysis

Software: QGIS, ArcGIS Pro, ENVI, Pix4D, Google Earth Engine, Tableau, MongoDB

Spoken Languages: English, Chinese (Mandarin), Japanese, Dutch