

# Jack Lim

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## EDUCATION

**Bachelor of Science in Data Science | Minor in Math**

University of California, San Diego (UCSD), GPA:3.76

Expected Graduation: Dec. 2024

Provost Honors & Honors in Mathematics

## TECHNICAL SKILLS

**Programming Languages-** Python, Java, SQL

**Tools-** Pytorch, Scikit-Learn, Tensorflow, Dask

**Languages -** Mandarin, Malay, Taiwanese, Japanese

**Others -** Git, Github, LaTeX, AWS

## PROFESSIONAL & INTERNSHIP EXPERIENCES

**Research Assistant** | School of Global Policy & Strategy | San Diego, CA

*Feb 2024 - Present*

- Investigating and researching the effects of social factors on Solar PV Projects in the United States.
- Performed statistical correlation, regression tests and robustness checks to identify and validate potential causes.
- Create interactive visualization to help understand and learn about potential factors in certain regions.

**Software Engineer** | Global Genesis (M) Sdn Bhd | Kuala Lumpur, Malaysia

*Aug 2023 - Jan 2024*

- Implemented solutions to large dataset cleaning utilizing REST APIs, for a Geo Mapping visualization.
- Planned layout to large MYSQL ML project architecture, for ML based sales projecting.

**Data Science Intern** | Center For Community Energy | San Diego, CA

*Feb 2023-Sep 2023*

- Designed and constructed an application to visualize an isochrone map using TravelTimeAPI, depicting the accessible distances achievable from public transportation in San Diego, via walking, biking or using an E-bike.
- With Open Doors, I parse and prepare hundreds of data. To facilitate a Mail Merge initiative aimed at reaching out to plot owners, encouraging them to leverage their land to install solar panels, capitalizing on sustainable energy.

## RELEVANT PROJECTS

**Deep Learning for Climate Model Emulation** | UCSD Senior Project

*Sep 2023 - Present*

- Enhanced baseline Gaussian Process from Original ClimateBench by implementing
- Enhanced the ClimateBench Model by integrating a Deep Kernel Learning Gaussian Process in TensorFlow, exceeding standard benchmarks from the original paper.
- Produced a report and website to document results and interesting findings - [jackljk.github.io/DSC180B-website/](https://jackljk.github.io/DSC180B-website/)
- Processed complex high dimensional climate Data from NorESM2 with Xarray for use in Climate Emulation

**AR Food Nutrition Finder Project Lead** | AR/Deep Learning Project

*Jan 2023 - Present*

- Led the development of a mobile application leveraging camera technology to identify food items within the frame. Utilizing an image recognition deep learning model built with PyTorch to recognize various food types.
- Integrated augmented reality (AR) capabilities to display the nutritional content of the identified food items dynamically in the user's environment, enhancing the interactive user experience

## CAMPUS LEADERSHIP

**Vice President External** | UCSD Data Science Student Society

*Apr 2023 - Present*

- Lead the outreach efforts to forge collaborations and secure sponsorships for the organization .
- In charge of planning collaborations events with external entities such as ASML, Tech San diego, Palantir
- Co-Director of annual Hackathon, Datahacks 2024 with 200 attendees.

**Treasurer** | UCSD Club Swim

*May 2023 - Present*

- Manage club finances, focusing on keeping expenses within budget while tracking all expenditures and income.
- One of three captains, collectively steering and maintaining a competitive and safe environment for the team.
- Managed and led a team of 30+ people to College Club Swimming National Championship 23 & 24.

## Research

**Climate Bench** | Mentored Self-Research

*Apr 2024 - Present*

- Researching and understanding the effects and abilities of Neural Processes for Climate Data
- Implement and build a Climate Emulator based on Neural Processes for Climate Prediction