

Jack Lim

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EDUCATION

Bachelor of Science in Data Science | Minor in Math
University of California, San Diego (UCSD), GPA:3.796

Expected Graduation: Dec. 2024
Provost Honors & Honors in Mathematics

TECHNICAL SKILLS

Programming Languages- Python, Java, SQL
Languages - Mandarin, Malay, Taiwanese, Japanese

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