Jeremy Lu

(510)-557-2612 | jl13200@nyu.edu | linkedin.com/in/jeremylu43/ | jeremylu43.github.io/

Work Experience

New York University Rapid Randomized Controlled Trial (RCT) Lab   May '23 - Present

Data Analyst. **Supervisor:** Dr. Leora Horwitz, Holly Krelle MPhil

- Help design and evaluate RCTs to improve and assess efficacy of healthcare delivery
- Use six years of historical data from emergency department (ED) to evaluate catchment area to inform long term patient capacity and recruitment decision making
- Evaluate effectiveness of integrated imaging sharing in over six hundred thousand ED visits in to reduce rate of repeat imaging

New York University Department of Applied Statistics   Sept '22 - Dec '22

Graduate Teaching Assistant. **Supervisor:** Dr. Marc Scott

- Teaching lab section with live coding demonstrations for Practicum in Applied Statistics: Statistical Computing
- Help design syllabus, optimize student experience, and grade submitted assignments and projects

Aizip, Inc.   June '22 - Aug '22

AI Research Intern. **Advisors:** Yuan Lu, Asimov Lee

- Automated process for deploying PyTorch Convolutional and Recurrent Neural Networks on hardware
- Oversee collection, labeling, and organization of visual and audio data for a variety of TinyML neural networks

Department of Atmospheric Sciences - UW Seattle   Sept '19 - June '21

Research Assistant. **Advisors:** Professor Rob Wood, Dr. Hans Morhmann

- Performed exploratory analysis on over 140,000 particles from Southern Ocean Clouds, Radiation, Aerosol Transport Experimental Study (SOCRATES) probe data using matplotlib, numpy, and xarray
- Used Scikit-Learn to design, evaluate, and finalize multiple iterations of a random forest classifier, to distinguish over 5 million liquid and ice cloud particles with 95% accuracy, a 20% increase from previous non-ML methods

Education

New York University   Sept '21 - May '23

M.S. in Applied Statistics for Social Science Research

University of Washington, Seattle   Sept '18 - June '21

B.S. in Applied and Computational Mathematical Sciences (Data Science Concentration)

Skills

Programming Languages: Python (pandas, matplotlib, plotly, numpy, scikit-learn, xarray, seaborn, pytorch, onnx), R (base, tidyverse, ggplot, Shiny, glm), Java, HTML, CSS, MATLAB, SQL, SQLite, Scala

Software: Microsoft Office, LaTeX, Adobe Acrobat, Tableau