

Kenneth (Hsuan An) Chen

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Education

University of California, Berkeley

- M.A. in Statistics

Aug. 2023 – Dec. 2024 (Expected)

University of California, Los Angeles (UCLA)

- B.S. in Statistics

Graduated Jun. 2022

GPA: 3.94 (magna cum laude)

Relevant coursework: Probability, Mathematical Statistics, Statistical Computation and Optimization, Linear Models, Experimental Design, Data Mining, Monte Carlo Methods, Financial Statistics, Real Analysis, Data Structures & Algorithms

Work Experience

Graduate Student Instructor – UC Berkeley Statistics Department

Aug. 2023 – Present

- Helped facilitate and deliver statistics education to more than 400 undergraduate students
- Assisted the instruction of an R bootcamp for over 150 graduate students
- Other responsibilities included leading labs/discussions, holding office hours, and grading assignments
- **Technologies used:** R, RStudio, ggplot2, tidyverse, Github

Machine Learning Research Intern – OIST/RIKEN AIP (Japan)

Jul. 2022 – Oct. 2022

- Applied novel research methods to improve the adaptability of deep reinforcement learning agents
- Implemented methods that enhanced an agent's ability to successfully complete various tasks in different environments
- Project served as a proof of concept for the application of Bayesian deep learning techniques in reinforcement learning
- **Technologies used:** Python, PyTorch, OpenAI Gym, Jupyter Notebook, Github

Statistical Researcher – UCLA Statistics Department

Jun. 2021 – Sep. 2021

- Employed time series ARIMA models that forecasted COVID-19 vaccine distribution for various countries to help better inform public health interventions against the pandemic
- Models were able to predict the distribution of COVID-19 vaccines 30 days into the future and within 5% of the actual value
- Research paper published in SIAM Undergraduate Research Online (SIURO)
- **Technologies used:** R, RStudio, forecast, imputeTS, LaTeX, Github

Machine Learning Research Assistant – UCLA PARISlab

Oct. 2020 – Dec. 2020

- Implemented machine learning algorithms to predict the hardness of a glass from its chemical composition in order to improve efficiency in product testing for industry partners
- Developed and tested various outlier detection algorithms to improve model accuracy and data quality
- **Technologies used:** Python, pandas, numpy, sklearn, seaborn, Jupyter Notebook, Git, Github

Instructional Assistant – UCSD Halicioglu Data Science Institute

Mar. 2020 – Jun. 2020

- Undergraduate teaching assistant for DSC 30 - Data Structures and Algorithms for Data Science
- Responsibilities included holding office hours, grading assignments, proctoring exams, creating quizzes, and holding small group discussions
- **Technologies used:** Java, Git, Github, Gradescope, Google Slides

Projects

Basketball Data Analysis Projects

- Multiple projects analyzing basketball data at various levels with results summarized and published on Medium
- Designed new team metrics that measure efficiency in order to predict win percentage and optimize strategy at the college and NBA level
- Developed models and engineered features to predict call-ups in the G League and enhance the player-valuation process
- **Technologies used:** R, RStudio, ggplot2, tidyverse, Github

Skills

Languages:

R, Python, Java, SQL, LaTeX, HTML

Packages & Libraries:

ggplot2, tidyverse, forecast, Shiny, pandas, seaborn, sklearn, PyTorch, OpenAI Gym

Technologies:

GitHub, Jupyter Notebook, Tableau, RStudio