KEVIN LIN

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EDUCATION

University of Chicago **Expected June 2025**

BA in Data Science & Statistics | 3.6 GPA

Related Courses: Statistical Theory and Methods; Mathematical Methods in the Physical Sciences; Data Engineering; Data Visualization and Communication; Machine Learning @ Stanford Online (Coursera)

Planned 2024 Courses: Applied Regression Analysis; Machine Learning and Large-Scale Data Analysis + assorted Machine Learning courses

RESEARCH & WORK EXPERIENCE

Internal Audit Data Analyst Intern | *JPMorgan Chase & Co* **Starting Summer 2024**

Statistical Analysis Research Intern | *University of Chicago Biological Sciences Division* **Mar 2023 – Present**

- Perform statistical correlation analysis using R and Python, plan to submit a paper to the 68th Biophysical Society Annual Meeting in Feb 2024 w/ Dr. Esmael Haddadian (University of Chicago) & Dr. Jack Douglas (NIST)
- Develop protein models in explicit TIP4P/2005 water solvent using Molecular Dynamics on Unix Midway supercomputer
- Analyze the degree and intensity of modulation on protein dynamics with respect to its surrounding solvent, focusing on specific regions to quantify the impact of water on specific structural features of a protein using Tcl

Social Network Analysis/ML/NLP Intern | *WORLDIE - Social Media for Good* **June – Sep 2022**

- Develop social media scraping programs to analyze posts, comments, tweets, etc. for signs of potential domestic violence / abuse
- Develop court file analysis program utilizing NLP, OCR, and STT models to extract all date-time instances of evidence used in court case and create a timeline from extracted evidence
- Scrap and analyze RedHeart Database containing data of ~2,500 victims of domestic violence in Australia

Research Intern | *San Francisco State University* **Nov 2019 – Mar 2021**

- Develop machine learning models w/ Dr. Rex Cheung in Python to predict and prevent potential car accidents, used R for data cleaning
- Test models using decision trees, vector machines, soft / hard voting

Student Researcher | *University of Chicago Data Science Pathways Program* **July 2020**

- Analyze 30+ datasets w/ Dr. Kendra Burbank using Python to answer public policy questions on voting racial bias, law enforcement & civil rights, COVID contraction probability
- Utilize SkLearn machine learning library for basic classification models, visualized results with scatterplots and 3D graphs

Student Researcher | *Carleton Computer Science Institute* **July – Aug 2019**

- Utilize NLTK Python library for natural language processing and machine learning to generate realistic news articles and texts, conduct experiments on “humanness” of generated text w/ Dr. Andy Exley

CLUBS

ERG (UChicago Environmental Research Group): *Data Analysis Branch Head* **Sep 2022 – Present**

- Lead Data Analysis branch (20+ members) to brainstorm potential research and analysis pathways
- Design and teach basic data science Python skills to new members
- Currently utilizing Python to analyze lead traces in Chicago’s water and its relation to public health quality, crime rates, employment, etc. using government databases

UChicago Robotics Club: *Programming Branch Lead* **Sep 2022 – Present**

- Help lead programming branch of club: brainstorm, design, and develop software aspect of robot, teach new members
- Currently in off season, developed a soccer robot (intra-club soccer competition champion)
- Planning to participate in the University Rover Challenge to design and build a rover capable of traversing Mars-like terrain
- Planning to participate in Robobrawl (inter-collegiate version of Battle Bots)

PROJECTS

KiwiClient: https://github.com/TangyKiwi/KiwiClient **Dec 2020 – Present**

Personal hobby project, Java based Minecraft hacked client / utility mod, explores vulnerable exploits within the Minecraft client and server code utilizing network packet manipulation, entirely self started and self taught project

Other: Multiple data analysis projects for assorted courses, utilized Python and R to analyze health survey data to exploring relationships between metabolic disorders, diabetes, and Alzheimer’s and Jakob-Creutzfeldt disease

SKILLS

Python, Java, R, C++; Git, SQL, Django; Unix / Linux

Fluent in Chinese & Spanish