

Joshua Ho

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SUMMARY

PhD candidate specializing in computer science with a focus on machine learning. Proven ability to develop and implement sophisticated models for large-scale systems. Experience working collaboratively across disciplines, producing impactful research outcomes through rigorous methodologies. Strong programming skills in Python enhance proficiency in modeling and simulation efforts. Passionate about innovating solutions that integrate technology and behavioral sciences. Eager to contribute expertise to Tech Innovations Corp's cutting-edge projects focused on vehicle-related behaviors. Prepared to engage deeply in collaborative initiatives and effectively communicate findings.

EDUCATION

PhD in Computer Science

2026

University of California, Los Angeles GPA: 3.9

Los Angeles, CA

Coursework: Machine Learning, Research Methodology, Statistical Analysis, Data Structures

TECHNICAL SKILLS

- Programming Languages:** Python, R, SQL
- Data Visualization Tools:** Tableau, Matplotlib, Seaborn
- Machine Learning Frameworks:** TensorFlow, scikit-learn, PyTorch
- Statistical Analysis Software:** RStudio, SAS, SPSS
- Database Management:** PostgreSQL, MySQL, MongoDB
- Version Control Systems:** Git, GitHub, Bitbucket
- Cloud Computing Services:** AWS, Google Cloud, Azure
- Research Methodologies:** Experimental Design, Regression Analysis, Mixed Methods
- Collaboration Platforms:** Slack, Miro, Trello
- Presentation Software:** PowerPoint, Prezi, LaTeX

SKILLS

- Machine Learning
- Research Presentation
- Simulation Studies
- Literature Review
- Python
- Team Collaboration
- Implementation Planning
- Crowd Simulation
- Data Analysis
- Statistical Analysis
- Technical Communications
- Networking Strategies
- Behavioral Modeling
- Model Development
- Project Management

EXPERIENCE

Behavior Modeling Intern

June 2025 - Present

University Research Lab

Los Angeles, CA

- Contributed significantly to vehicle behavior model development as part of multidisciplinary teams. Initiated and scoped project plans to build integrated models reflecting complex driving and charging behaviors by leveraging both technical expertise and teamwork.
- Built accurate models of vehicle behavior using programming languages and tools tailored for complex algorithms.
 - Executed experiments on substantial datasets measuring emissions to refine model performance, contributing valuable data insights to stakeholders.
 - Presented findings at notable academic platforms, leading to publications in prestigious peer-reviewed journals, showcasing significant research impact within the broader scientific community.
 - Collaborated with experts from behavioral science and ML domains, achieving progressive enhancement of model techniques and project objectives.
 - Utilized mentor feedback to repeat iterations on model strategies, aligning closely with overarching research targets for effective outcomes.
 - Participated in company-wide events aimed at fostering interdisciplinary connections enhancing innovative thinking.

Research Assistant

September 2024 - May 2025

Academic Research Group

Los Angeles, CA

- Worked diligently to explore modern urban challenges, focusing on generative models simulating crowd behaviors in urban planning contexts. Contributed vital support to improving comprehension of traffic dynamics through insightful engagement with external databases.
- Assisted in developing predictive models capturing crowd movement and urban interactions utilizing robust programming capabilities.
 - Integrated diverse external data sources improving the project's direction and the analysis of urban infrastructure impacts.

- Conducted an extensive literature review offering insights helping shape renovation proposals while also informing practical applications veering towards actual city layouts.
- Drafted clear documentation and technical reports facilitating alignment with policy and knowledge sharing agendas among team members.
- Engaged proactively in rhythm-building seminars, delivering insightful updates on ongoing projects enabling greater accountability and team cohesion.
- Facilitated productive brainstorming sessions identifying fresh perspectives enhancing overall model applicability.

Machine Learning Developer

January 2024 - August 2024

Capstone Project

Los Angeles, CA

Led cross-functional collaboration aimed at creating predictive energy consumption models based on previous time series forecasts while engaging peers to bolster understanding of machine learning application.

- Spearheaded creation of predictive models targeting energy behavior trends aided by capability in statistical analysis resulting in improved practices reflectively.
- Analyzed multifaceted datasets uncovering fluctuations and irregularities advancing model sophistication succeeding benchmarks achieved prior.
- Designed an interface promoting user interaction with outputs ensuring accessible interpretations of crucial data feedback.
- Showcased results demonstrating applicability of innovative approaches in front of faculty and industry leaders earning positive recognition.
- Engaged thoroughly in stakeholder discussions refining product interface based on collected quality assurance feedback.
- Co-facilitated workshops alongside colleagues enriching collective conceptualizations of machine learning drivers providing comprehensive access pathways.

LEADERSHIP & AWARDS

- Dean's List, UCLA, 2024
- Best Research Presentation, UCLA Graduate Conference, 2025

CERTIFICATIONS

- Python for Data Science Certification 📅 2025
- Machine Learning Specialization 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Computer Science Graduate Student Association, UCLA
- Volunteer, STEM Outreach Program, UCLA

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST