



# Joshua Ho

## Behavior Modeling Intern

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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

University of California, Los Angeles 🎓 GPA: 3.9 📅 2026 📍 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

### EXPERIENCE

#### Behavior Modeling Intern

University Research Lab 📅 June 2025 - Present 📍 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

Academic Research Group 📅 September 2024 - May 2025 📍 Los Angeles, CA

### STRENGTHS

#### 👥 Collaborative Mindset

Thrives on teamwork initiatives, often becoming a go-to person during group projects; flexibility in role fosters unity.

#### 💡 Adaptive Problem Solver

Consistently identified innovative solutions under pressure; gained trust from mentors for critical assignments maximizing project outcome.

#### 🗣️ Effective Communicator

Delivers engaging presentations that simplify complex concepts; peers value my clarity which enhances interdepartmental cooperation.

#### 📊 Detail-Oriented Analyzer

Engages thoughtfully in examining nuanced datasets, earning respect from colleagues for informative analyses that truly add value.

#### 📖 Proactive Learner

Initiates and seeks out new knowledge opportunities, regularly pursuing tasks outside comfort zones fostering broader professional development.

### SKILLS

Machine Learning Python

Data Analysis Behavioral Modeling

Research Presentation

Team Collaboration

Statistical Analysis

Model Development

Simulation Studies

Implementation Planning

Technical Communications

Project Management

Literature Review

Crowd Simulation

Networking Strategies

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Behavior Modeling Intern at University Research Lab (1.2 Years)

● Research Assistant at Academic Research Group (8 Months)

● Machine Learning Developer at Capstone Project (7 Months)

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

Capstone Project 📅 January 2024 - August 2024 📍 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

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST