SHANG WU

shangw13@uci.edu
260 Aldrich Hall, Irvine, CA, 92697

RESEARCH INTERESTS

I am broadly interested in human–AI interaction, AI evaluation/benchmarking, and uncertainty quantification, with a focus on developing cognitively-inspired methods to evaluate and improve AI systems.

EDUCATION

Ph.D. in Computer Science   **09/2023 - Present**
University of California, Irvine
Advisor: Padhraic Smyth

M.S. in Computer Science   **09/2023 - 03/2025**
University of California, Irvine | GPA 3.96/4.00

B.S. in Computer Science and Psychology with Honors   **09/2020 - 03/2023**
University of California, Davis | GPA 4.00/4.00
Honors Thesis: Publication bias as an explanation of inflated effect sizes: An agent-based model

RESEARCH EXPERIENCE

Graduate Student Researcher   **09/2023 - Present**
University of California, Irvine, Computer Science Department

Research Assistant
University of California, Davis, Psychology Department   06/2022 - 03/2023
University of California, Davis, Animal Science Department   02/2022 - 05/2022

SKILLS

ML Model Development · Evaluation & Benchmarking · Data Science · Visualization
Statistical Analysis · Experimental Design · Scientific Writing · Interdisciplinary Collaboration
Python (PyTorch, scikit-learn, pandas, matplotlib, Stan, etc.) · C++ · Java · git
English · Mandarin

PUBLICATIONS

Wu, S., Belém, C., Fu, S., Steyvers, M., Smyth, P., Does AI help or hurt? The impact of AI assistance on individual skill development in reasoning tasks. *Under Review.*

Longjohn, R., **Wu, S.**, Kher, S., Belém, C., Smyth, P., Bayesian evaluation of blackbox LLM behavior *NeurIPS 2025 Workshop on Evaluating the Evolving LLM Lifecycle: Benchmarks, Emergent Abilities, and Scaling*

WORKS IN PROGRESS

Wu, S., Yao, R., Smyth, P., Perception bias in LLMs: Who sets the standard?

Wu, S., Kher, S., Smyth, P., Bayesian contextual bandits for efficient task sharing in human–AI teams.

Wu, S., Smyth, P., Adaptive or misled? Human learning dynamics under imperfect AI assistance.

FELLOWSHIPS & AWARDS

HPI Research Center Fellowship	01/2025
UCI ICS Dean's Fellowship	06/2024
Thomas E. Bruzzone Scholarship	12/2022
Charles R. Bishop Award	09/2022
2021 Michael's Scholarship	01/2022

TALKS & PRESENTATIONS

Wu. S, Understanding human-AI dynamics in interactive decision-making tasks, *Collective Intelligence 2025 Demos and Posters.*

TEACHING

Student Assistant - UC Davis Computer Science Department   **04/2022 - 06/2022**
Course: Software Development & Object-Oriented Programming in C++.

Peer Tutor – UC Davis Academic Assistance and Tutoring Centers   **10/2021 - 03/2023**
Programming, mathematics, and statistics.