WILLIAM HUANG

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EDUCATION

University of California, Los Angeles September 2025 – Present
Ph.D. in Electrical and Computer Engineering (GPA: 4.00/4.00) *Los Angeles, CA*

University of California, Los Angeles September 2024 – June 2025
M.S. in Electrical and Computer Engineering (GPA: 4.00/4.00) *Los Angeles, CA*

University of California, Los Angeles September 2020 – June 2024
B.S. in Computer Engineering, *Cum Laude* (GPA: 3.92/4.00) *Los Angeles, CA*

PROFESSIONAL EXPERIENCE

University of California, Los Angeles December 2021 – Present
Graduate Student Researcher, Advised by Prof. Yang Zhang *Los Angeles, CA*

– Design data-driven approaches for scalable and personalized mobility technologies through human-centered AI.

Pacific Northwest National Laboratory June 2023 – December 2023
Applied Decisions Systems and Analytics Intern *Virtual / Richland, WA*

– Optimized big data processing of always-on ammonia farm sensor arrays through high performance computing.

University of California, Los Angeles February 2023 – December 2023
Research Assistant, Advised by Prof. Vwani P. Roychowdhury *Los Angeles, CA*

– Optimized performance of motion generation models through GPU acceleration and biomechanical modeling.

Intel Corporation January 2022 – September 2022
Biomechanics Co-Op *Virtual / Santa Clara, CA*

– Designed and implemented new and sensor-fusion algorithms for pose estimation in athletics.

UCLA Athletics December 2020 – January 2022
Data Analytics and Sports Science Project Lead *Los Angeles, CA*

– Led a team of 20 to develop end-to-end data pipelines and visualizations to manage athlete wellness data.

National Institutes of Health – Office of AIDS Research June 2021 – August 2021
Data Science Fellow *Virtual / Bethesda, MD*

– Developed an automated grant proposal classification pipeline to analyze and assign reviewers.

University of California, Los Angeles September 2020 – July 2021
Research Assistant, Advised by Prof. Xiang 'Anthony' Chen *Los Angeles, CA*

– Study predictors of problem gambling behavior in daily fantasy sports activity.

University of California, Irvine June 2020 – June 2021
Research Assistant, Advised by Prof. Edwin S. Monuki *Irvine, CA*

– Developed human-centered pathology annotation tools to reduce the physical strain of data collection.

PUBLICATIONS

William Huang, Sam Ghahremani, Siyou Pei, and Yang Zhang. "WheelPose: Data Synthesis Techniques to Improve Pose Estimation Performance on Wheelchair Users". In: CHI '24. New York, NY, USA: Association for Computing Machinery, May 2024, pp. 1–25. ISBN: 9798400703300. DOI: 10.1145/3613904.3642555.

Deborah K. Fagan, Anastasia Bernat, Brett C. Simpson, Randy K. Tran, John Wilson, **William Huang**, Clara L. Stickney, David LePoire, Mark MacDonald, R. D. Hildebrand, and Hoffman Edward. "Sample Planning for Transportation Accident Environmental Characterization Using RISKIND and VSP". In: *Proceedings of the Waste Management Symposia*. WMS 2024. Phoenix, AZ, USA: Waste Management Symposia, Mar. 2024.

SELECTED HONORS AND AWARDS

GRFP Awardee ($37,000 per year, 3 years) – NSF	2025
Third Place, Education Track – QWER Hacks	2021
Beckman Legacy Awardee ($8,000) – Beckman Foundation	2020

PAPER REVIEWING

ACM UIST	2025
ACM CHI LBW	2025

SELECTED OUTREACH

Mentor, Coding it Forward	2025
HCC and AI/ML Instructor and Organizer, Los Angeles Computing Circle	2025
English Instructor, Independent	2020 – 2025
Sports Analytics Outreach Head, UCLA DataRes	2021 – 2022
Application Reviewer, Coding it Forward	2021 – 2022
Curriculum Developer and Python Instructor, ACM Teach LA	2020 – 2021

MENTORSHIP

Tony Fan September 2024 – Present
Electrical Engineering Undergraduate at UCLA

Yu Wei Chang September 2024 – Present
Electrical Engineering Masters at UCLA

Leyi Zou September 2024 – Present
Electrical Engineering Masters at UCLA

Medha Kini September 2024 – June 2025
Next – Software Engineer at Google

Tracy Zhao June 2024 – June 2025
Next – Software Engineer at LinkedIn

Brandon Yan June 2024 – June 2025
Next – Software Engineer at Atlassian

Sam Ghahremani March 2023 – August 2024
Next – Human-Centered Computing PhD at the Georgia Institute of Technology