

# WILLIAM HUANG

✉ [william.huang@ucla.edu](mailto:william.huang@ucla.edu) | 🏠 [whuang37.github.io](https://whuang37.github.io) | 🔄 [whuang37](#) | 🌐 [whuang37](#)

## EDUCATION

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### University of California, Los Angeles

M.S./Ph.D. in Electrical and Computer Engineering (GPA: 4.00/4.00)

September 2024 – Present

*Los Angeles, CA*

### University of California, Los Angeles

B.S. in Computer Engineering, *Cum Laude* (GPA: 3.92/4.00)

September 2020 – June 2024

*Los Angeles, CA*

## PROFESSIONAL EXPERIENCE

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### University of California, Los Angeles

Graduate Student Researcher, Advised by Prof. Yang Zhang

December 2021 – Present

*Los Angeles, CA*

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

### Pacific Northwest National Laboratory

Applied Decisions Systems and Analytics Intern

June 2023 – December 2023

*Virtual / Richland, WA*

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

### University of California, Los Angeles

Research Assistant, Advised by Prof. Vwani P. Roychowdhury

February 2023 – December 2023

*Los Angeles, CA*

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

### Intel Corporation

Biomechanics Co-Op

January 2022 – September 2022

*Virtual / Santa Clara, CA*

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

### UCLA Athletics

Data Analytics and Sports Science Project Lead

December 2020 – January 2022

*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

Data Science Fellow

June 2021 – August 2021

*Virtual / Bethesda, MD*

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

### University of California, Los Angeles

Research Assistant, Advised by Prof. Xiang ‘Anthony’ Chen

September 2020 – July 2021

*Los Angeles, CA*

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

### University of California, Irvine

Research Assistant, Advised by Prof. Edwin S. Monuki

June 2020 – June 2021

*Irvine, CA*

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

## PUBLICATIONS

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**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.

Brett A. Johnson, Michael J. Neel, Todd Soo, Parastou Porahang, Frances A. Goyokpin, Sara Khan, Ryan S. Salehi, Nicolas B. Maramica, **William Huang**, Sam Ghahremani, Peter Chang, and Edwin S. Monuki. “Lipid storage by the human choroid plexus”. In: *Manuscript in preparation* (2025).

## SELECTED HONORS AND AWARDS

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<b>GRFP Honorable Mention</b> – NSF	2025
<b>Third Place, Education Track</b> – QWER Hacks	2021
<b>Beckman Legacy Awardee (\$8,000)</b> – Beckman Foundation	2020

## PAPER REVIEWING

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<b>ACM CHI LBW</b>	2025
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## SELECTED OUTREACH

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<b>English Instructor</b> , Independent	2020 – 2025
<b>Sports Analytics Outreach Head</b> , UCLA DataRes	2021 – 2022
<b>Application Reviewer</b> , Coding it Forward	2021 – 2022
<b>Curriculum Developer and Python Instructor</b> , ACM Teach LA	2020 – 2021

## MENTORSHIP

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<b>Tony Fan</b> <i>Electrical Engineering Undergraduate at UCLA</i>	September 2024 – Present
<b>Yu Wei Chang</b> <i>Electrical Engineering Masters at UCLA</i>	September 2024 – Present
<b>Leyi Zou</b> <i>Electrical Engineering Masters at UCLA</i>	September 2024 – Present
<b>Medha Kini</b> <i>Next – Software Engineer at Google</i>	September 2024 – Present
<b>Tracy Zhao</b> <i>Next – Software Engineer at LinkedIn</i>	June 2024 – Present
<b>Brandon Yan</b> <i>Next – Software Engineer at Atlassian</i>	June 2024 – Present
<b>Sam Ghahremani</b> <i>Next – Human-Centered Computing PhD at the Georgia Institute of Technology</i>	March 2023 – August 2024