

Winston Chen

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RESEARCH INTEREST

I develop methods at the intersection of causal inference, reinforcement learning, and explainable AI, with a focus on enabling reliable AI-driven decision-making and scientific discovery in healthcare and other high-stakes domains.

EDUCATION

- **University of Michigan** 2023 - present
Ph.D. in Computer Science & Engineering Ann Arbor, Michigan
 - Advisor: Jenna Wiens
- **University of Washington** 2018 - 2022
B.S. in Electrical Engineering Seattle, Washington
 - Advisor: William Stafford Noble

PROFESSIONAL EXPERIENCE

- **RealNetworks** Sept. 2022 - Sept. 2023
R&D Intern. Mentor: Reza Rassool Seattle, Washington
 - Designed facial recognition-based general encryption algorithm.
 - Developed a mobile app for showcasing the encryption technology.
- **NVIDIA** Jun. 2021 - Sept. 2021
Software Engineering Intern. Mentor: Johnny Israeli Remote
 - Designed and implemented a software log analysis framework for testing genomics data analysis software suites.

PUBLICATIONS & PREPRINTS

- **Winston Chen**, Michael W. Sjoding, Jenna Wiens, **Measuring Model Performance in the Presence of an Intervention**, *The 40th Annual AAAI Conference on Artificial Intelligence*, Jan 2026.
- **Winston Chen**, Yifan Jiang, William Stafford Noble, Yang Young Lu, **Error-controlled Non-additive Interaction Discovery in Machine Learning Models**, *Nature Machine Intelligence* (Previously presented at *NeurIPS 2024 workshop on Interpretable AI: Past, Present, and Future* and *MLCB 2023*), Sept. 2025.
- **Winston Chen**, Trenton Chang, Jenna Wiens, **Conditional Front-door Adjustment for Heterogeneous Treatment Assignment Effect Estimation Under Non-adherence**, *Conference on Health Inference and Learning (CHIL)*, June 2025.
- **Winston Chen**, Michelle Neeley, Sean Meyer, Justin Ortwine, Matthew Luzum, Paul J. Grant, Antoinette Coe, Amy Thompson, Vikas Parekh, Michael W. Sjoding, Jenna Wiens, **Measuring the effect of an intervention bundle to prevent unplanned 30-day hospital readmission: a randomized quality improvement study**, *Under review*, Sept. 2025.

HONORS AND AWARDS

- **Rackham Graduate Research Fellowship** *Autumn 2023*
University of Michigan
 - Merit-based fellowship covering the first year tuition and stipends of the Ph.D. program.
- **Mary Gates Research Scholarship** *Spring 2021*
University of Washington
 - \$5000 award for excellent undergraduate research in interpretable machine learning.
- **Lawrence & Lucille Frey Endowed ECE Scholarship** *Autumn 2020*
University of Washington
 - \$1000 award for Electrical & Computer Engineering (ECE) student with high academic excellence.
- **Herschel & Caryl Roman Scholarship** *Summer 2020*
University of Washington
 - \$2500 award for undergraduate research in genomics.

TEACHING EXPERIENCE

- **Teaching Assistant, EE 241 (Programming for Signal and Information Processing)** *Spring 2022*
University of Washington
 - Held weekly office hours and lab sessions for around 40 students on Python programming.
- **Teaching Assistant, EE 215 (Fundamentals of Electrical Engineering)** *Winter 2021 & 2022*
University of Washington
 - Held weekly review sessions and graded homework for around 20 students on fundamental circuit analysis.
- **Teaching Assistant, EE 271 (Digital Circuit and System)** *Autumn 2021*
University of Washington
 - Held weekly lab sessions and graded projects for around 40 students on FPGA programming.

SERVICES

- **Program Sub-Chair**, Machine Learning for Health Symposium (ML4H) Symposium (2024)
- **Reviewer**, AISTATS (2024, 2025), AAAI (2025)
- **Secretary**, Computer Science & Engineering Graduate Student Organization, University of Michigan (2024 - 2025)