

BRUCE WEN

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EDUCATION

The University of Chicago (*summa cum laude*, GPA: 3.96/4.0) September 2019 – June 2023
M.S. Computer Science, B.A. Mathematical Economics Chicago, IL, USA

Relevant Coursework

Advanced Algorithms	Auction Theory	Computer Vision	Honors Econometrics
Parallel Programming	Real Analysis	Statistical Theory	Topics in ML

AWARDS

Student Marshal – the highest honor for UChicago undergraduate students February 2022
David S. Hu Award for Best Senior Thesis in Economics May 2023
Phi Beta Kappa (Junior Inductee) May 2022

EXPERIENCE

Economic Development Board August 2023 – Present
Associate Singapore

UChicago Security, Usability, Privacy Education & Research Group August 2020 – September 2022
Privacy Researcher Chicago, IL, USA





- Constructed scrapers for 1 million websites using parallel cloud computing with containers. Developed (from scratch) a single layer perceptron model with 72% accuracy on 593 categories, outperforming published LSTM models.
- Papers published in WPES 2023 and submitted to PoPETs 2024.

EY-Parthenon June 2022 – August 2022
Strategy Summer Associate Chicago, IL, USA

- Analyzed large company datasets to draw insights on inventory inefficiencies and cash flow priorities as part of a restructuring project for a manufacturing firm with annual revenue USD\$1bn.

UChicago Computer Science Department March 2022 - June 2022
Teaching Assistant, CMSC25300: Mathematical Foundations for Machine Learning Chicago, IL, USA

PUBLICATIONS AND WORKS IN PROGRESS

- Wen, B., & Ponomarev, K. (2023). *Reserve Prices in Art Auctions*. Work in progress .
- Reitinger, N., Wen, B., Mazurek, M. & Ur, B. (2023). *What Does It Mean to Be Creepy? Responses to Visualizations of Personal Browsing Activity, Online Tracking, and Targeted Ads*. Submitted, PoPETs '24 .
- Reitinger, N., Wen, B., Mazurek, M. & Ur, B. (2023). *Analysis of Google Ads Settings Over Time: Updated, Individualized, Accurate, and Filtered*. Accepted, WPES '23 .
- Reddy, M.V., Lee, Y.T., Wen, B., & Chowdari, B.V.R. (2015). *Low Temperature Molten Salt Preparation of Nano-SnO₂ as Anode for Lithium-ion Batteries*. Accepted, Materials Letters '15 .

ACADEMIC RESEARCH

Undergraduate Research in Econometrics January 2022 – Present
with Professor Kirill Ponomarev Chicago, IL, USA

- Conceptualized data collection for > 3500 lots of live auctions from videos. Designed novel partial identification and statistical inference for Ascending Auctions. Solved the minimax-regret criterion for best choice of reserve price.
- Paper is currently work-in-progress for joint publication in a top Econometrics journal.

EXTRACURRICULARS

President, Lambda Phi Epsilon Psi Chapter January 2023 – June 2023
Principal Tuba, University of Chicago Symphony Orchestra September 2019 – June 2023

SKILLS & INTERESTS

Computer: Python, R, C++, Go, Julia
Languages: Native Proficiency in English, Mandarin
Interests: Poker, Bowling