# 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, Illinois, 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*

**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). *(Short Paper) 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-SnO$_2$ as Anode for Lithium-ion Batteries.* Accepted, Materials Letters '15 🔗.

## ACADEMIC RESEARCH

**Undergraduate Research in Econometrics**　　　　　　　　　　　January 2022 – Present
*with Professor Kirill Ponomarev*
- 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.

**Undergraduate Research in Privacy**　　　　　　　　　　　August 2020 – September 2022
*with Security, Usability, Privacy Education & Research Group*
- 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.

## EXTRACURRICULARS

*President,* **Lambda Phi Epsilon Psi Chapter**　　　　　　　　　　Spring 2020 – Spring 2023
*Principal Tuba,* **University of Chicago Symphony Orchestra**　　　　Fall 2019 – Spring 2023

## SKILLS

**Computer**: Python, R, C++, Go, Julia
**Languages**: Native Proficiency in English, Mandarin