

# Sebastian Wai

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## Education

- **Purdue University** **West Lafayette, IN**  
*Ph.D., Economics* 2017
    - Dissertation committee: Stephen Martin (Chair), John Barron, Justin Tobias, Timothy Cason
    - Primary fields: industrial organization, econometrics*M.S., Economics* 2013
  - **Carnegie Mellon University** **Pittsburgh, PA**  
*B.S., Economics* 2011
    - Minor in Mathematical Sciences, Minor in Chinese Studies
    - Tepper College Honors, University Honors, Phi Beta Kappa, Omicron Delta Epsilon
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## Employment

- **University of South Dakota – Beacom School of Business** **Vermillion, SD**  
*Assistant Professor* 2018 – Present
  - **Indiana University – Kelley School of Business** **Bloomington, IN**  
*Visiting Assistant Professor* 2017 – 2018  
*Visiting Lecturer* 2016 – 2017
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## Research Interests

- Empirical industrial organization, intellectual capital, innovation, agglomeration economies, network industries, platform markets, text processing, semiconductor industry, sports economics
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## Teaching Specializations

- Industrial organization, microeconomics, game theory, econometrics, managerial economics, business analytics, statistics
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## Programming Languages

- R, Perl, Stata, MATLAB, Java, LaTeX
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## Publications

- Optimal Timeout Decisions in Clutch Situations in the NBA (with Mike Allgrunn and Chris Douglas). *Journal of Sports Economics* 25(2), 217-230, 2024.
- Inventor Mobility, Spillovers, and Trends in the Early Semiconductor Industry. *Technology in Society* 75, 102331, 2023.
- Econometrics with YouTube Data: A Time Series Teaching Case. *Journal for Economic Educators* 23(2), 31-39, 2023.
- Software Quality and Backward Compatibility in the Video Game Industry. *Journal of Industrial and Business Economics* 49(3), 545-570, 2022.
- Experimental Game Theory. *National Collegiate Honors Council Sample Syllabi*, 2023.

## Research in Progress

- Managerial Economics in the MBA Program (under review)
  - Compassionate Aging: Reimagining Empathy (in progress, with Carole South-Winter)
  - Semiconductor Patent Database (ongoing project)
    - I am currently building a comprehensive database of semiconductor patents starting in the 1940s and going forward year by year. The work involves scripted regular expression searching through OCR (optical character recognition) text data and manual inspection of scanned images. The goal is to identify semiconductor patents and their inventors' names, locations, and employers. I have employed many students over the years and currently have data on around 20,000 patents.
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## Contracted Research

- Reemployment Services and Eligibility Assessment (RESEA) Profiling Model (with Ed Gerrish), 2023.
    - Contract with the South Dakota Department of Labor, administered by the Government Research Bureau.
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## Teaching Experience

- **University of South Dakota** **Vermillion & Sioux Falls, SD**  
*Course Instructor*
  - Industrial Organization (Undergraduate): Fall 2019, Spring 2022, Spring 2024
  - Intermediate Microeconomics (Undergraduate): Fall 2021, Fall 2022, Fall 2023
  - Managerial Economics (MBA): Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024
  - Managerial Economics (MBA, Online): Fall 2018, Summer 2019, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Spring 2024
  - Principles of Microeconomics (Undergraduate): Fall 2018, Spring 2019, Fall 2019, Fall 2020, Spring 2021, Fall 2023
  - Principles of Microeconomics (Undergraduate, Online): Fall 2022
  - Experimental Game Theory (Honors Seminar): Spring 2023
  - Applied Business Analytics (Undergraduate): Spring 2020, Spring 2021, Spring 2022, Spring 2023
  - Foundations of Economics (MBA, Online): Fall 2020
- **Indiana University** **Bloomington, IN**  
*Course Instructor*
  - Business Econometrics (Undergraduate): Spring 2017, Spring 2018
  - Business Econometrics (MSBA, Online): Spring 2017, Spring 2018
  - Predictive Analytics (MSBA, Online): Summer 2017, Summer 2018
  - Business Econometrics (MBA): Spring 2017
- **Purdue University** **West Lafayette, IN**  
*Course Instructor*
  - Industrial Organization (Undergraduate): Summer 2013, Spring 2014, Summer 2014, Fall 2014  
Krannert Certificate for Distinguished Teaching (3), Krannert Certificate for Outstanding Teaching (1)  
*Teaching Assistant*
  - Game Theory (MS, Online): Spring 2016
  - Industrial Economics (MS, Online): Fall 2015, Spring 2015
  - Industrial Organization (Undergraduate, Online): Summer 2015
  - Intermediate Economics I (MS, Online): Fall 2013
  - Principles of Economics (Undergraduate): Spring 2012  
Krannert Certificate for Distinguished Recitation Teaching
- **Carnegie Mellon University** **Pittsburgh, PA**  
*Recitation Instructor*
  - Principles of Economics (Undergraduate): Fall 2009, Fall 2010

## Presentations

- American Economic Association
    - ASSA Annual Meetings (January 2023, January 2024)
  - Missouri Valley Economic Association
    - MVEA Annual Conference (October 2019, October 2021, October 2022, October 2023)
  - University of South Dakota
    - Beacom Scholar Series (October 2018, March 2019, November 2019, March 2022, November 2022, November 2023)
  - Indiana University
    - Business Economics and Public Policy Brown Bag Seminar Series (October 2017)
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## Service

- **University of South Dakota**
    - Academic Misconduct Hearing Board (2019 – ; two terms)
    - Phi Beta Kappa, Alpha Chapter of South Dakota (Chapter Vice President, 2019 – )
    - Digital Accessibility Mentor (2021 – )
    - CTL Graduate Teaching Series (Content designer & speaker, 2022 – 2023)
  - **Beacom School of Business**
    - Beacom Analytics Adventure Instructor (2022 – )
    - Master of Business Administration Assessment Committee (Committee Chair, 2023 – )
    - Economics Faculty Search Committee (2023 – 2024)
    - Economics Faculty Search Committee (2023)
    - Beacom Outstanding Student Awards Selection Committee (2021)
    - Accounting Faculty Search Committee (2020 – 2021)
    - Economics Major Coordinator (2019 – )
    - Master of Professional Accountancy Assessment Committee (2019 – 2023; two terms)
    - Business Communications Task Force (2019)
  - **Peer Review**
    - Assistant Editor, *Journal of Economic Insight* (2023 – )
    - Textbooks: Cambridge University Press
    - Journal Articles: Economics of Innovation and New Technology
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## Advising

- **MBA Program Academic Advisor**
    - Primary academic advisor for 20 MBA students (2021-2023)
  - **Honors Thesis Director**
    - Noah Dixon (2024), Zane Rankin (2023), Connor Van Der Werff (2023), Shinyoung Kim (2020)
  - **Honors Thesis Committee Member**
    - Martin Long (2020)
  - **UDiscover Summer Scholar Program Mentor**
    - Noah Dixon (2023)
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## Other Activities

- YouTube channel *SebastianWaiEcon* (2016 – )
    - Stata and R econometrics tutorials
    - Full course lectures on principles of economics and managerial economics
    - 2 million total video views and 10,000 subscribers as of April 2023
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Last updated January 16, 2024.