

# Bryan S. Weber, PhD

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## Education

- 2011–2015 **Ph D, Economics**, University of Wisconsin - Milwaukee, Milwaukee, WI.  
Dissertation: The Economics of Crime  
Co-Advisors: John S. Heywood and Hamid Mohtadi
- 2009–2011 **MA, Economics**, UW-Milwaukee, Milwaukee, WI.
- 2005–2009 **BA, Economics**, *Honors, Cum Laude*, UW-Milwaukee, Milwaukee, WI.
- 2005–2009 **BA, Philosophy**, *Honors, Cum Laude*, UW-Milwaukee, Milwaukee, WI.

### Academic Honors

- 2024-Present **Research Fellowship**, Department of Finance, University of Economics - Ho Chi Minh City (UEH)  
Engaged in a collaborative initiative to foster academic exchange. Responsibilities include conducting and collaborating on published research, as well as contributing to scholarly UEH growth.
- 2023 **Fellowship**, Faculty Fellowship Publication Program, CUNY.  
Competitive fellowship awarded to CUNY faculty, consisting of course release and the privilege of research critique by Professor Lina Newton (Hunter College, CUNY), and interdisciplinary peers.
- 2022 **Fellowship**, STEM Pedagogy Institute, CUNY Graduate Center.  
CUNY-wide competitive fellowship. Shared and acquired teaching techniques, exercises and experiences for teaching STEM in diverse environments.
- 2010 **Fellowship**, Summer School in International Economics, Justus-Liebig University.
- 2009 **Best New Tutor**, Tutoring and Academic Resource Center, UW-Milwaukee.
- 2005-2009 **Magnatek Scholarship for Academic Merit**, Magnatek, UW-Milwaukee.

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## Experience

### Academic

- 2023–Present **Associate Professor**, College of Staten Island - City University of New York, Lucille and Jay Chazanoff School of Business, Department of Economics.
- 2016–2023 **Assistant Professor**, College of Staten Island - City University of New York, Lucille and Jay Chazanoff School of Business, Department of Economics.
- 2015–2016 **Visiting Assistant Professor**, College of William & Mary, Department of Economics.
- 2011–2015 **Teaching Assistant**, UW-Milwaukee, Department of Economics.

### Non-Academic

- 2015–2018 **Supporting Researcher**, National Consortium for the Study of Terrorism and Responses to Terrorism (START), Maryland.
- 2012 **Research Assistant**, Institute for Survey & Policy Research, Milwaukee.

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## Peer-Reviewed Publications

### Published

- 2023 Adam Amos-Binks and **Bryan S. Weber**. Risk management: Anticipating and reacting in StarCraft. *Proceedings of the AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment*, 19(1):13–22, 2023.
- Bryan S. Weber** and Paolo Cappellari. Assessing the impact of ferry transit on urban crime. *Urban Affairs Review*, 59(6):1950–1972, 2023.
- 2022 Paolo Cappellari and **Bryan S. Weber**. An analysis of the New York City traffic volume, vehicle collisions, and safety under COVID-19. *Journal of Safety Research*, 83:57–65, August 2022.
- Bryan S. Weber** and Toan Luu Duc Huynh. COVID-19 challenges and firm responses: Analysis of a city-wide census in a developing country. *Managerial and Decision Economics*, 43(6):2184–2195, January 2022.
- 2021 Anders H. Christiansen, Emil Gensby, and **Bryan S. Weber**. Deployment of causal effect estimation in live games of Dota 2. *IEEE Transactions on Games*, 14(4):654–662, December 2021.
- Lam Hoang Viet Le, Toan Luu Duc Huynh, **Bryan S. Weber**, and Bao Khac Quoc Nguyen. Different firm responses to the COVID-19 pandemic shocks: machine-learning evidence on the Vietnamese labor market. *International Journal of Emerging Markets*, July 2021.
- 2020 Hamid Mohtadi and **Bryan S. Weber**. Catastrophe and rational policy: Case of national security. *Economic Inquiry*, 59:140–161, June 2020.
- 2019 Kristin Mammen, Hyoung Suk Shim, and **Bryan S. Weber**. Vision Zero and traffic injury prevention in New York City. *Eastern Economic Journal*, 46:282–300, December 2019.
- Bryan S. Weber**. Uber and urban crime. *Transportation Research Part A: Policy and Practice*, 130:496–506, December 2019.
- Hamid Mohtadi and **Bryan S. Weber**. Terrorism risk and optimal policy response: theory and empirics. *Indian Growth and Development Review*, 13(2):449–468, October 2019.
- Anders H. Christiansen, Emil Gensby, and **Bryan S. Weber**. Resolving simultaneity bias: Using features to estimate causal effects in competitive games. *Institute of Electrical and Electronics Engineers (IEEE) Conference on Games (COG)*, pages 1037–1044, August 2019.
- John S. Heywood and **Bryan S. Weber**. University-provided transit and crime in an urban neighborhood. *The Annals of Regional Science*, 62:467–495, June 2019.
- 2018 **Bryan S. Weber**. Standard economic models in nonstandard settings—StarCraft: Brood War. In *IEEE Conference on Computational Intelligence and Games (CIG)*, pages 417–424, August 2018.
- 2014 **Bryan S. Weber**. Can safe ride programs reduce urban crime? *Regional Science and Urban Economics*, 48:1–11, September 2014.

### In Progress (4)

- 2024 Emil Gensby, **Bryan S. Weber**, and Anders H. Christiansen. Investigating efficiency of free-for-all models in a matchmaking context. *IEEE Transactions on Games*, pages 1–8, February 2023. (Revise and Resubmit.)
- Bryan S. Weber**, Paolo Cappellari, and Ali Moghtaderi. Effects of congestion surcharges: from ridership to competition and safety. *Transportation Research, Part A: Policy and Practice*, February 2024. (Under Review.)
- 2023 **Bryan S. Weber**. The sharing economy and urban crime. *Cities*, pages 1–32, December 2023. (Under Review.)
- Bryan S. Weber**, Toan Luu Duc Huynh, and Phillipp Chapkovski. Savings and investment preparation under Black Swan events. Intended Journal & Submission Date: *Journal of Economic Behavior and Organization*, August 2024.

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### Selected Grants Awarded or Participated In

#### Peer-Reviewed (8)

- 2023 **Bryan S. Weber**. (Principal) “Property Ownership and Crime, The Case of AirBnB,” Research Foundation-CUNY, \$6,000.
- Bryan S. Weber**, Paolo Cappellari. (Principal) “A Framework for the Analysis of the Social Impact of Law Enforcement Behavior,” The Lucille and Jay Chazanoff School of Business, \$2,500.
- 2022 **Bryan S. Weber**. (Principal) “Savings And Investment Preparation Under Black Swan Events,” Research Foundation-CUNY, \$3,500.
- Jonathan Peters and **Bryan S. Weber**. (Principal) “Utilizing Web-Scraped Spatial Hospitality Data for Research and Teaching: Examining Detailed AirBnB Data for Economic and Business Policy Issues,” Teaching Innovation Initiative, Lucille and Jay Chazanoff School of Business, \$4,500.
- 2020 **Bryan S. Weber**. (Principal), “STATA for Students,” Department of Economics, CSI - CUNY, \$3,145.
- 2018 **Bryan S. Weber**. (Non-PI, Supporting Personnel), “Deterrence, International Criminal History, Soft Targets and Horizon Scanning for Threats to Aviation,” Sponsored by Transport Security Administration. \$376,981.
- 2017 – 2018 **Bryan S. Weber**. (Principal, one of 6), “Proposal for Implementing OER at the College of Staten Island – CUNY,” Sponsored by CUNY: Office of Academic Affairs, CSI - CUNY, \$126,325.
- 2015 – 2018 **Bryan S. Weber**. (Non-PI, Supporting Personnel), “ARI-MA: Dissuading Adversaries and their RN Pathways: Integrating Deterrence Theory and Analytics in the GNDA,” Sponsored by National Science Foundation and Department of Homeland Security (DHS), \$351,839.
- 2016 **Bryan S. Weber**. (Principal), “OER Pilot Project,” Sponsored by College of William & Mary, \$2,000.

## Presentations

- 2013–Present Academic (21) *CUNY Graduate Center Economics Brown Bag Seminar, University of Economics Ho Chi Minh City Finance Department Seminar, American Economics Association: TPUG, Southern Economics Conference, Asia Conference on Business and Economics Studies, North Carolina State University – Laboratory for Analytic Sciences: Wednesday Research Meetings, Western Economics Association International, Columbus Safe Rides Convening, Eastern Economics Association: Urban Economics, CUNY Games Conference, IEEE:CIG Poster Session, Rutgers Economics Department Seminar, Eastern Economics Association: Transportation – Costs, Pricing, and Innovations Session, National Consortium for the Study of Terrorism and Responses to Terrorism (START), CSI Lucille and Jay Chazanoff School of Business Seminar, Academic Research Initiative: DHS, Domestic Nuclear Detection Office, Annual Potsdam Conference in Empirical Economics, UW-Milwaukee Labor Economics Seminar*
- 2019–Present Outreach (3) *Faculty Center for Professional Development (Keynote), Bronx High School of Science Seminar, National Science Foundation: New York City Louis Stokes Alliance for Minority Participation*

## Editing & Refereeing

- 2022–Present Associate Editor *Evaluation Review*
- 2021–Present Associate Editor *Journal of Asian Business and Economic Studies*
- 2021–Present Referee, Grants *PSC-CUNY Research Award Program*
- 2015–Present Referee, Journals & Conferences *Journal of Behavioral and Experimental Economics, Journal Of Economic Behavior & Organization, Journal of Urban Economics, IEEE Transactions on Games, Conference on Games, Regional Science and Urban Economics, Urban Affairs Review, Journal of Behavioral and Experimental Economics, Conference on Artificial Intelligence and Interactive Digital Entertainment*

## Courses Taught

- 2016–Present CSI-CUNY *Urban Economics (2x), Introductory Econometrics (12x), Behavioral Economics (3x), Economic & Managerial Statistics (2x), Introductory Microeconomics (6x), Introductory Macroeconomics (1x), Graduate Seminar in Big Data: Current Topics (1x), Business Data (2x), Independent Study (7x)*
- 2019 Graduate Center-CUNY *Capstone Independent Study (In Computer Science, 2x).*
- 2015–2016 William & Mary *Econometrics (1x), Industrial Organization (1x), Introductory Microeconomics (2x).*
- 2012–2015 UW-Milwaukee *Introductory Microeconomics (Independently 1x, As TA 2x), Introductory Macroeconomics (As TA 1x).*

## New Courses & Curricula Developed

- 2020 Urban Economics. Revised and taught course for the first time in 20 years.
- 2018 Introduction to Economic and Managerial Statistics with Open Educational Resources (OER). Zero Cost.
- Introductory Macroeconomics with OER. Zero Cost.
- Introductory Microeconomics with OER. Zero Cost.

2016 Introductory Microeconomics at The College of William and Mary with OER.

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## Student Mentoring

### Supervision of Doctoral Dissertations

2023 Rowan Issaks, PhD in Economics, Vanderbilt University (external committee member). Topic: “Three Papers In Urban Economics.”

### Supervision of Master’s Theses and Projects

2019-2020 Kiwook Kwoon, Independent Study (with Dr. Feng Gu), Department of Computer Science. Topic: “Using Machine Learning and the Cobb-Douglass Model in CUNYBot.”

### Supervision of Bachelors Students

2023 Samuel Rozenfeld, Bachelor of Arts in Finance (Honors Thesis). Topic: “Impact of Stream Viewership on Digital Entertainment Stock Values.”

Marwan Mahmoud, Bachelor of Arts in Economics (Honors Thesis). Topic: “Economic and Medical Effects of Interventionist Health Policies.”

2018 Jaclyn LaLima, Bachelor of Arts in Economics (Honors Thesis). Topic: “The Effects of Raising the Minimum Wage.”

Tatiana Anderson and Maaz Syed, Bachelor of Arts in Computer Science (Honors Thesis). Topic: “Predictive Policing.”

2017 Jasmine Boone, Bachelor of Arts in Economics (Honors Thesis). Topic: “Evaluating Racial Biases in Policing and Crime Clearance.”

### Supervision of Independent Studies

2018 John J. Jackson and Ali Mohamed, Department of Computer Science. Topic: “Modifications on CUNYBot: DolphinBot.”

Ali Mohamed, Department of Computer Science. Topic: “Modifications on CUNYBot.”

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## Service

### College of Staten Island

2022–Present Member, Data Analytics Working Group.

2022–Present Committee Member, General Education Committee.

2019–Present Committee Member, Academic Technology Committee.

2020–2021 Member, Esports Working Group.

2017–2021 Committee Member, Course And Standing Committee

### Lucille and Jay Chazanoff School of Business

2021–Present Committee Member, Quantitative Skills Committee

2019–Present Committee Member, Assurance of Learning Committee- Econometrics.

2018 Master of Ceremonies, Commencement for the School of Business.

### Economics Department

2022–Present Member, Curriculum Working Group.

2018 Committee Member, Search Committee for Long-Term Lecturer.

### Professional

2017–Present Member, Urban Economics Association.

- 2015–Present Member, Transportation and Public Utilities Group.
- 2014–Present Member, American Economics Association.
- 2023 Committee Chair, Southern Economics Conference: Topics in Urban Economics.
  - Committee Chair, Southern Economics Conference: Topics in Transportation I.
  - Program Committee, Conference on Artificial Intelligence and Interactive Digital Entertainment (AIIDE)
- 2019–2020 Member, Southern Economics Association.
- 2017 Committee Chair, American Economics Association: Transportation and Public Utilities Group.
- Public**
- 2023 Montreal Replication Games. Replicated recent major papers in economics, confirmed results aligned with claims.
- 2015–Present Member, Economics Stack Exchange. 157k people reached, top 50 users.

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## Programming

### Software

- 2017–2021 CUNYBot
  - Developed a competitive AI to play a complete real-time strategy game using macroeconomic models. Uses machine learning techniques such as genetic algorithms, upper confidence bound for multi-armed bandits, and Monte Carlo simulations. Opponents include AI designed by Facebook. Approximate win rate of 47%, code available on Github.
  - CUNYBot Tournaments and Educational Usage**
- 2017–Present Student Starcraft AI Tournament (SSCAIT)
  - 2022 Artificial Intelligence and Interactive Digital Entertainment (AIIDE)
  - 2020 Used in Notre Dame's Computer Science and Engineering 40971.
- 2018–2019 Institute of Electrical and Electronics Engineers (IEEE): Conference on Computational Intelligence and Games (CIG), placed 18th out of 27th.
- 2018 Artificial Intelligence and Interactive Digital Entertainment (AIIDE)