

Bryan S. Weber, PhD

Curriculum Vitae

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Education

- 2011–2015 **Ph D, Economics**, University of Wisconsin, Milwaukee, WI.
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

- 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.

Experience

Academic: Post-Secondary

- 2016–Present **Assistant Professor**, College of Staten Island – CUNY, Department of Economics.
2015–2016 **Visiting Assistant Professor**, College of William & Mary, Department of Economics.
2012–2015 **Instructor**, UW-Milwaukee, Department of Economics.
2011–2012 **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.
2013 **Research Assistant**, Institute for Survey & Policy Research, Milwaukee.

Peer-Reviewed Publications

Published

- 2021 Toan Luu Duc Huynh and Bryan S. Weber. COVID-19 challenges and firm responses: Analysis of a city-wide census in a developing country. *Managerial and Decision Economics*, November 2021. (Accepted).
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. Policy rationality and extreme events: Case of catastrophic terrorism. *Economic Inquiry*, 59:140–161, June 2020.
2019 Kristen 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.

A. H. Christiansen, E. 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, 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. IEEE, August 2018.

2014 Bryan S. Weber. Can safe ride programs reduce urban crime? *Regional Science and Urban Economics*, 48:1–11, September 2014.

Revise & Resubmit

2021 Paolo Cappellari and Bryan S. Weber. Instrumental variables approach and causal effects: Traffic volume and vehicle collisions under COVID-19. *Journal of Safety Research*, November 2021. (Revise and Resubmit).

Bryan S. Weber and Paolo Cappellari. Troubled waters: Ferry transit and urban crime. *Urban Affairs Review*, November 2021. (Revise and Resubmit).

A. H. Christiansen, E. Gensby, and Bryan S. Weber. Deployment of causal effect estimation in live games of Dota 2. *Institute of Electrical and Electronics Engineers (IEEE) Transactions on Games (TOG)*, May 2021. (Revise and Resubmit)

In Progress

2021 Paolo Cappellari, Ali Moghtaderi, and Bryan S. Weber. Unintended effects of tax hikes: from ridership to congestion and crime. June 2022. (Intended).

Sourav Batabyal and Bryan S. Weber. House prices and global health crises. *Economic Letters*, June 2021. (Last Presented).

Adam Amos-Binks and Bryan S. Weber. Ability-oriented evaluation of RTS agents. *Proceedings of the 31st International Joint Conference on Artificial Intelligence*, December 2022. (Intended).

2019 Bryan S. Weber. Sequential entry and spatial price discrimination. *Southern Economic Journal*, January 2019. (Last Submitted).

Grants Awarded or Participated In

Peer-Reviewed

- 2021 Bryan S. Weber. (Principal, Applied) “Savings And Investment Preparation Before Black Swan Events,” Russel Sage Foundation, \$21,000.
- 2020 Bryan S. Weber. (Principal), “STATA for Students,” Department of Economics, CSI - CUNY, \$3,145.
Bryan S. Weber. (Applied, Member of Working Group) “Resolution A Grant for Esports,” New York City Council, \$107,123.45.
- 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.
- 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.
Bryan S. Weber. (Principal), “CSI Provost Travel Grant,” Sponsored by Provost’s Office, CSI - CUNY, \$500.
- 2016 Bryan S. Weber. (Principal), “OER Pilot Project,” Sponsored by College of William & Mary, \$2,000.

Presentations

Academic

- 2021 Bryan S. Weber and Sourav Batabyal. House prices and global health crisis. Western Economics Association International, June 2021. Remote.
- 2019 Bryan S. Weber. Columbus safe rides convening. December 2019. Invited to discuss and analyze a recently-implemented experimental safe ride program, the first experimentally implemented program of its kind, sponsored by AB InBev. December 2019. Columbus, OH.
Bryan S. Weber, K. Mammen, and H. S. Shim. Vision Zero and traffic injury prevention in New York City. Eastern Economics Association: Urban Economics, February 2019. New York, NY.
Bryan S. Weber, A. Mohamed, and J. J. Jackson. Learning to program with CUNYBot. CUNY Games Conference, January 2019. New York, NY.
Bryan S. Weber, K. Mammen, and H. S. Shim. Vision Zero and traffic injury prevention in New York City. American Economics Association: Transportation and Public Utilities Group (TPUG), January 2019. Atlanta, GA.
- 2018 Bryan S. Weber. Standard economic models in nonstandard settings–StarCraft: Brood War. IEEE:CIG Poster Session, August 2018. Maastrich, Netherlands.
Bryan S. Weber. Uber and urban crime. Rutgers Economic Department Seminar, March 2018. Rutgers - Newark, Newark, NJ.

Bryan S. Weber. Sequential entry and spatial price discrimination. CSI School of Business Seminar, February 2018. Staten Island, NY.

Bryan S. Weber. Uber and urban crime. American Economics Association: Transportation and Public Utilities Group, January 2018. Philadelphia, PA.

2017 Bryan S. Weber. Uber and urban crime. Eastern Economics Association: Transportation: Costs, Pricing, and Innovations Session, March 2017. New York, NY.

Bryan S. Weber. Using machine learning to assess the costs of terrorist attacks. National Consortium for the Study of Terrorism and Responses to Terrorism (START), January 2017. College Park, MD.

2016 Bryan S. Weber. Uber and urban crime. CSI School of Business Seminar, October 2016. Staten Island, NY.

2015 Bryan S. Weber. Modeling adversary decisions and strategic response. Academic Research Initiative: DHS, Domestic Nuclear Detection Office, July 2015. Leesburg, VA.

2014 Bryan S. Weber. Can safe ride programs reduce urban crime? Annual Potsdam Conference in Empirical Economics, March 2014. University of Potsdam, Germany.

2013 Bryan S. Weber. Can safe ride programs reduce urban crime? UWM Labor Economics Seminar, October 2013. Milwaukee, WI.

Outreach

2019 Bryan S. Weber. CUNYBot for education and entertainment. Bronx High School of Science Seminar, May 2019.

Bryan S. Weber. CUNYBot and gaming in economics. National Science Foundation – New York City Louis Stokes Alliance for Minority Participation, April 2019. Staten Island, NY.

Reviewing

2021–Present Associate Editor, *Journal of Asian Business and Economic Studies*.

2021 Reviewer, Journal Article, *Evaluation Review*.

2020 Reviewer, Journal Article, *Journal of Urban Economics*.

2018 Reviewer, Journal Article, *Journal Of Economic Behavior & Organization*.

Reviewer, Journal Article, *IEEE Transactions on Games*.

2014 Reviewer, Journal Article, *Regional Science and Urban Economics*.

Courses Taught

2019–Present Graduate Center-CUNY *Big Data Analytics (1x), Independent Study (Computer Science) (2x)*.

2016–Present CSI-CUNY *Urban Economics (1x), Introductory Econometrics (9x), Behavioral Economics (3x), Economics & Managerial Statistics (2x), Introductory Microeconomics (4x), Introductory Macroeconomics (1x)*.

2015–2016 William & Mary *Econometrics (1x), Industrial Organization (1x), Introductory Microeconomics (2x)*.

2012–2015 UW-Milwaukee *Introductory Microeconomics (1x), Introductory Macroeconomics (1x)*.

New Courses & Curricula Developed

- 2020 Urban Economics. Revised and taught course which had not been taught 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.

Student Mentoring

- 2019-2020 Kiwook Kwon, Independent Study, Masters Student (with Dr. Feng Gu). Using Machine Learning and the Cobb-Dougllass Model in CUNYBot.
- 2018 John J. Jackson, Independent Study. Modifications on CUNYBot: DolphinBot.
Ali Mohamed, Independent Study. Modifications on CUNYBot: DolphinBot.
Jaclyn LaLima, Undergraduate Honors Thesis. "The Effects of Raising the Minimum Wage".
Maaz Syed, Tatiana Anderson, Undergraduate Honors Thesis. "Predictive Policing".
Ali Mohamed, Supervised Research. Modifications on CUNYBot.
- 2017 Jasmine Boone, Undergraduate Honors Thesis. "Evaluating Racial Biases in Policing and Crime Clearance".

Service

CSI

- 2020–Present Esports Working Group
Member, Course and Standing Committee.
- 2018 Master of Ceremonies, Commencement for the School of Business.

Department/Program

- 2019–Present Committee Member, Academic Technology Committee.
- 2017–Present Committee Member, Course and Standing Committee.
- 2018 Special Institutional Assignment, Annual Assessment Economics for the BA/BS Concentration.

Professional

- 2019–Present Member, Southern Economics Association.
- 2017–Present Member, Urban Economics Association.
- 2015–Present Member, Transportation and Public Utilities Group.
- 2014–Present Member, American Economics Association.
- 2017 Committee Chair, Transportation and Public Utilities Group.

Public

- 2015–Present Member, Economics Stack Exchange. 124k people reached, top 50 users.

Programming

Languages/Proficiencies

- R (Proficient)
- GIS (Proficient)
- GGPlot (Proficient)
- Matlab (Familiar)
- SQL (certified Coursera)
- C++ (Proficient)
- Stata (Proficient)
- L^AT_EX (Proficient)
- Python (Proficient)

Software

2017–Present Developed a competitive AI, CUNYBot, using C++ to play a complete strategy game using macroeconomic models. Uses machine learning techniques such as genetic algorithms, random forests, and Monte Carlo simulations. Opponents include AI designed by Facebook. Approximate win rate of 47%, code available at Github.

CUNYBot Tournaments and Educational Usage

- 2020 Used in Notre Dame's CSE 40971 as an example bot.
- 2018–2019 Institute of Electrical and Electronics Engineers (IEEE): Conference on Computational Intelligence and Games (CIG), placed 18th out of 27th, next to University of Alberta.
- 2017–2019 Student Starcraft AI Tournament (SSCAIT)
- 2018 Artificial Intelligence and Interactive Digital Entertainment (AIIDE)