Eric Nussbaum

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Education

Ph.D. in Economics, University of Toronto — started 2023
- Fields: Industrial Organization, Environmental Economics, and International Trade.

M.A. in Economics, University of Toronto — 2023
B.A. in Economics, Queen's University — 2022
B.A.Sc. in Engineering Physics, Queen's University — 2022

Research in Economics

Manufacturer Pooling in the European Union CO2 Emission Performance Standard for Passenger Cars — (In Progress)

Awards and scholarships

Lawson Climate and Sustainability PhD Award ($10,000) — 2026
Ontario Graduate Scholarship ($10,000) — 2022
U of T Faculty of Arts and Sciences Graduate Award ($7,500) — 2022
NSERC Undergraduate Student Research Award ($10,000 × 2) — 2020, 2021
Ontario University Athletics Academic all Star — 2018–2020, 2022

Professional Experience

Research Assistant to Stephan Heblich and Ferdinando Monte — 2026
Research Assistant to Loren Brandt — 2025
Research Assistant to Yao Luo — 2025
Teaching Assistant, University of Toronto — 2022–2026
- Microeconomic Theory, Macroeconomic Theory, Environmental Economics, Urban Economics, Econometrics, and International Trade.

Skills

Coding languages: Python, R, Matlab, Stata, C, LaTeX

Publications in Physics

N.J Martin et al. Topological and conventional nano-photonic waveguides for chiral integrated quantum optics. *Physical Review Research*, June 2024. Available: https://doi.org/10.1103/PhysRevResearch.6.L022065.

E. Nussbaum, N. Rotenberg, and S. Hughes. Optimizing the chiral Purcell factor for unidirectional single photon emitters in topological photonic crystal waveguides using inverse design, *Physical Review A*, September 2022. Available: https://doi.org/10.1103/PhysRevA.106.033514.

E. Nussbaum, E. Sauer, and S. Hughes. Inverse design of broadband and lossless topological photonic crystal waveguide modes, *OSA Optics Letters*, April 2021. Available: https://doi.org/10.1364/OL.420080.

Conference presentations in Physics

E. Nussbaum and S. Hughes. Inverse design of broadband and lossless topological photonic crystal waveguide modes, *SPIE Optics + Photonics, Nanoscience + Engineering*, San Diego, California, August 2021. Contributed presentation, Available: http://dx.doi.org/10.1117/12.2594365.