Matthew J.H. Murphy

mjhm@sas.upenn.edu

Last updated: March 22, 2025

Education

Ph.D in Economics, **University of Pennsylvania**, 2022-Present
Honours BSc (Applied Mathematics Specialist, Economics Major, Statistics Minor), **University of Toronto**, 2022

Working Papers

"Reviews or Ratings: Quantifying Information Loss from Coarsening"

Publications

"Modelling Instantaneous Firing Rate of a Local Neural Ensemble in Response to Deep Brain Stimulation," with Tian, Y. et al. *Neuromodulation*, 27(3), 2024, pgs. 464 - 475. (Second author.)

"The threshold dimension and irreducible graphs," with Lucas Mol and Ortrud Oellermann, *Discussiones Mathematicae Graph Theory* 43(1), 2023, pgs. 195-210.

"The threshold dimension of a graph," with Lucas Mol and Ortrud Oellermann, *Discrete Applied Mathematics* 287(2), pgs. 118-133.

Awards

University of Pennsylvania: Hiram Haney Graduate Endowment (2023), Lawrence Robbins Prize (1st year Economics PhD Overall Award, 2023)

University of Toronto: Reza Satchu Award for Excellence in Economics (2022), Robert C. Douglas Public Finance Award (2022), The Prince of Wales Prize in Mathematics (2022), The Chancellor's Gold Medal in Science (2022), Margaret Ronald Taylor and Thomas Paxton Taylor Scholarship in Mathematics (2021)

Teaching

University of Pennsylvania:
PhD Microeconomics I, ECON7100: TA (2023,2024)
Economics PhD Math Camp, ECON897: Instructor (2024,2025)

University of Toronto:
Calculus I, MAT135: TA (2020), Head TA (2021)
Calculus II, MAT136: TA (2021), Head TA (2022)

Misc

Citizenship: Canada (Hometown: Winnipeg, MB)