

Jacob Toner Gosselin

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Education

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| Northwestern University | Evanston, IL |
| PhD Candidate in Economics | 2022- |
| Committee: Lawrence Christiano (Chair), Alireza Tahbaz-Salehi, Benjamin Jones, and Kunal Sangani | |
| Northwestern University | Evanston, IL |
| MA in Economics | 2022-2024 |
| The University of Chicago | Chicago, IL |
| BA with Honors in Economics, BS in Mathematics, minor in Creative Writing | 2015-2019 |

Research Experience

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| Research Assistant, Professor Vivek Bhattacharya, Northwestern University | 2024 |
| Research Assistant, Professor Seema Jayachandran, Northwestern University | 2020-2022 |

Teaching Experience

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| Industrial Organization (Graduate), Professor Gaston Illanes, Northwestern University | 2024 |
| Health Economics, Professor Frank Limbrock, Northwestern University | 2024 |
| International Finance, Professor Richard Walker, Northwestern University | 2024 |
| International Finance, Professor Lawrence Christiano, Northwestern University | 2023 |

Fellowships and Awards

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| Distinguished Teaching Assistant Award, Northwestern University | 2024 |
| Graduate Student Fellowship, Northwestern University | 2022-2025 |

Working Papers

Heterogeneity in Sectoral Production and the Macro Effect of Sectoral Shocks

The effect of a negative shock to an individual sector on GDP depends on (1) how important that sector is as a direct and indirect supplier of other sectors, and (2) how easily sectors can substitute across intermediate inputs. Past estimates of the parameters that determine these qualities in the US have been restrictive: they have not been allowed to vary across industries or across time. I use a novel empirical strategy to relax those restrictions, by exploiting variation in input expenditure share shifts within industries rather than across industries. The resulting estimates exhibit significant sectoral and temporal heterogeneity; they are also dynamically correlated with weighted patents. These estimates imply different patterns of micro-to-macro propagation relative to the previous literature. I ground these implications and confirm their real-world relevance with a series of quantitative exercises on a static general equilibrium model of multi-sector production calibrated to the US economy.

Technical Skills, Language Skills, and Interests

Programming Languages: Experienced in Python, Matlab, Julia, **R**, Stata, L^AT_EX, and Git for version control.

Languages: English (Native), Spanish (Basic)

Volunteering: Former AmeriCorps VISTA; volunteer tutor with Chicago Peace Corps throughout college.

Interests: Running (doing it and watching it); Basketball(just watching it, mostly NBA but some college); Writing.