

Jacob Toner Gosselin

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Education

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

Research Experience

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

Teaching Experience

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

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, \LaTeX , 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.