General information:

I am a PhD candidate at the Dyson School of Applied Economics & Management at Cornell University. I am currently scheduled to go on the academic job market in the 2023-2024 academic year. My special committee members are ***Chris Forman, Seth Sanders, Ravi Kanbur***, and ***Dan Black***.

Relevant research:

One of my three dissertation research projects is a project titled "***COVID-Driven Technology Adoption, US Firm Labor Demand, and the Emergence of New Work***". This project is a joint project with Bledi Taska of Lightcast (formerly ESMI Burning Glass). It was awarded the Russell Sage Foundation Dissertation Research Grant ($10,000) in 2022. I provide a short study description below.

Part 1: COVID-Driven Technology Adoption and US Firm Labor Demand

This project has two objectives. The first objective is to provide more direct evidence than is currently available in the literature that technology adoption has a permanent upskilling effect, using granular firm-level data on technology adoption decisions and spending linked to the data on firm-level labor demand, with the identification strategy (instrumental variable) that addresses the endogeneity of firm technology adoption decisions and spending. For this purpose, I link rich Burning Glass Technologies data on millions of firm job postings to restricted firm-level Census Bureau data, and use firms' differential exposure to the COVID pandemic as an instrument for their technology spending. The second objective of this study is to examine in great detail the heterogeneity in the impacts of technology adoption on firm labor demand by type of technology. Understanding this heterogeneity might be crucial to understanding the potential impacts of new technologies on the inequality among workers of different skill levels.

I am currently collaborating with Bryan Stuart of the Philadelphia Fed on the bridge between Census Bureau restricted firm-level data and the Burning Glass Technologies data.

Part 2: COVID-Driven Technology Adoption and the Emergence of New Work

This project uses proprietary Burning Glass Technologies data on millions of job postings in the US over 2007-2022 to identify new work creation activity by firms following the COVID pandemic. Specifically, I take the approach similar to Autor et al. (2022) and identify, at a very granular level, new job titles that appeared during and immediately after the pandemic, with a particular focus on several industries, such as healthcare. I then characterize the geographical, industry, and occupational distribution of this new work creation activity. I also evaluate the skill content of new work, as well as its educational and experience requirements, to understand whether it is expected to affect higher or lower skill workers. Finally, I link job postings by employer over time to evaluate whether younger firms are more likely to engage in new work creation.

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