Application for NBER Digital Economics and AI Tutorial

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Graduate Study

I am a first-year Ph.D. student in Economics at Yale University and an incoming J.D. student at Yale Law School. I received my B.A. in Economics–Mathematics, summa cum laude, from Columbia University in 2022. Before starting graduate school, I worked as a Research Analyst at the Federal Reserve Bank of New York and as a Board Advisor at the Central Bank of Argentina. These roles exposed me to both the technical and policy dimensions of economic decision-making, from developing econometric tools to advising on macro-financial strategy in an emerging market setting.

At Yale, my early faculty advisor is Pascual Restrepo, whose influential work on automation, technological change, and labor markets closely aligns with my own interests. Although I am just beginning my Ph.D., I have already developed a research agenda that builds on the academic literature, incorporates legal and institutional perspectives, and engages directly with policy debates.

Research Interests and Projects

My research focuses on the economics of artificial intelligence, particularly on labor markets, measurement, and redistribution. I am pursuing projects at three levels: applied measurement, conceptual theory, and policy engagement.

1. Applied Project: I am working on a framework that uses technical model evaluations to measure AI's productivity on specific tasks. Building on approaches such as Eloundou et al.'s "AI exposure" scores, my project aims to go further by integrating (i) LLM feedback, (ii) expert evaluation, and (iii) technical attributes of models to estimate performance across tasks. The goal is to replicate these measures for the full set of occupations and tasks in the O*NET database, generating a more precise and dynamic picture of how model performance will evolve over time. Such a framework would provide economists and policymakers with a better empirical basis for forecasting displacement, augmentation, and productivity gains from AI adoption.

2. Theory Project: In parallel, I am exploring the political economy of redistribution in a post-AGI world. This project is in an early conceptual stage but draws on the traditions of optimal taxation and constitutional economics. The central question is how redistribution schemes can remain robust to extreme concentrations of wealth and power, a likely outcome if advanced AI systems accelerate capital-biased technological change. By examining

institutional and constitutional constraints, I aim to understand how to design durable frameworks that preserve broad-based welfare and agency in an economy where conventional labor markets may be severely diminished.

3. Policy Engagement: I am actively engaged in policy-oriented research. My proposal *ADAPT: A Phased Plan for AI-Era Labor Displacement* was selected for the Anthropic Economic Futures Symposium. ADAPT develops a three-phase strategy: (i) mobilizing the existing Dislocated Worker Program to respond to AI-driven displacements, (ii) reviving and modernizing Trade Adjustment Assistance to provide more robust support, and (iii) ultimately creating a federal trust funded through equity transfers to ensure that capital income gains are broadly shared. The proposal integrates legal and economic analysis, including constitutional considerations around funding mechanisms, and reflects my broader interest in designing institutions that can manage rapid technological disruption.

4. Law and AI: I was also selected as a participant in the Law and AI Summer Institute, which brought together scholars and practitioners to examine the legal frameworks shaping AI governance. This experience sharpened my understanding of how legal constraints and economic analysis must be combined when designing regulatory or redistributive responses to AI.

Contribution to the Tutorial

I would bring to this tutorial a perspective that combines technical economics training, policy experience, and legal analysis. Through my work at the New York Fed and the Central Bank of Argentina, I saw firsthand how policymakers use economic research to confront urgent challenges. Through my academic projects and policy proposals, I have engaged directly with the frontier questions economists are asking about AI's role in productivity, labor markets, and redistribution. And through my legal training, I have begun to situate these economic issues within the broader institutional context of constitutional and statutory frameworks.

Although I am a first-year Ph.D. student, I am very familiar with the academic and policy literatures on AI and labor markets and have already begun contributing to them. I have also been exposed to the conversations happening among economists, policymakers, and legal scholars, and I believe this interdisciplinary engagement would allow me both to learn from and to add value to the discussions at the tutorial.

For a reference, the organizers are welcome to contact my Yale Economics advisor, Professor Pascual Restrepo.