Application

Digital Economics and AI Tutorial

February 11-12, 2026 — Stanford University

Contact Information

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Graduate Study

Program: Vilfredo Pareto Doctoral Program in Economics
Years Enrolled: November 2022 – Present (3 years completed)
Expected Graduation: November 2026
Supervisors: Prof. Aldo Geuna and Prof. Giovanni Mastrobuoni
Visiting Position: Boston University (January 2026 – May 2026), under the supervision of Prof. Jeffrey Furman

Core Courses - First Year

- Microeconomic Theory (Prof. Ignacio Monzón – 30hr)
- Econometric Theory I (Prof. Christoph Albert - 30)
- Econometric Theory II (Prof. Giovanni Mastrobuoni – 30hr)
- Applied Economics (Prof. Ainoa Aparicio Fenoll - hr30)
- Dynamic Macroeconomics (Prof. Fabio Cesare Bagliano - 30h)
- Economic History for Economists (Prof. Paolo Di Martino – 15hr)
- Economics Communication (Prof. Marina della Giusta - 12hr)
- Stata (Prof. Flavia Coda Moscarola - 12hr)
- Economics of Networks (Prof. Valerio Leone Sciabolazza - 12hr)

Specialization Courses - First and Second Year

- Economics of Innovation (Prof. Cristiano Antonelli and Prof. Stan Metcalfe, 30 hr)
- Complexity Economics (Prof. Magda Fontana - 30 hr)

- Economics and management of Innovation and New Technologies (coordinated by Prof. Francesco Quatraro - 72hr):
  - Economics of Green Technologies and Eco-Innovations
  - Entrepreneurship and Regional Development
  - Economics of Science
  - Innovation and labor market dynamics
  - Green patents and firms' performances: Theory and methods
  - Innovation networks, complexity and green technologies: Theory and Methods

Other courses

- Economics of Ideas, Science, and Innovation Online PhD Short Course organized by the Institute for Progress (IFP) - Spring 2024
- Intensive Course on Causal Inference (Prof. Scott Cunningham - 20 hr)
- NBER Innovation Research Boot Camp (July 2026)

Research Interests and Current Projects

My research focuses primarily on the economics of science and innovation. As a Ph.D. applied economist, I am dedicated to exploring the impact of technological change on science organization and directions, with a particular interest in the research sector labor market and knowledge transfer between academic and corporate science. I also have a keen interest in developing computational and coding tools to collect and analyze data and address the limitations often encountered in complex settings.

I have also been selected as one of the 2026 Fellows of the Innovation Information Initiative (i3), for which I aim to develop an open database and classification system for research institutes, which, despite being crucial actors in the global innovation ecosystem, still remain poorly defined and classified.

Current Research Projects

1. Does Training in AI Affect PhD Students' Careers? Evidence from France. My first ongoing project (with Pierre Boutros, Michele Pezzoni, and Fabiana Visentin) aims to investigate whether AI training affects the careers of Ph.D. students as the new generation of scientists recently trained at the frontier of knowledge. As AI technologies rapidly evolve, understanding their impact on the labor market, particularly on highly skilled workers, is crucial. We develop a propensity score matching on a comprehensive dataset covering the entire population of French STEM PhD students who graduated between 2010 and 2018. Although preliminary results indicate no significant effect on the likelihood of transitioning to research or private sector jobs, discipline heterogeneity and varying market readiness for AI skills emerge.

2. Technology Access, Collaboration, and Competitive Advantage in Science: The Case of Quantum Computing. This project examines how researchers respond when technological barriers to entry fall dramatically. I exploit IBM's 2016 launch of cloud access to quantum processors as a natural experiment—a shock that transformed quantum computing from a field requiring on average $15 million hardware investments into one accessible via remote cloud platforms. Using comprehensive publication data from Scopus, I investigate whether incumbent researchers increased specialization when their technology-based competitive advantage disappeared, and how they adjusted their collaboration strategies with newcomers.

Motivation for Attending

I am strongly interested in attending the tutorial on Digital Economics and Artificial Intelligence as well as the NBER meetings as they directly align with my dissertation research on how digital technologies and AI are transforming scientific research and innovation. My work on quantum computing cloud access and AI training effects on PhD careers both examine how technological shifts reshape knowledge production, collaboration patterns, and labor markets—core themes in digital economics.

The timing is particularly opportune as I will be visiting Boston University under Professor Jeffrey Furman's supervision during the tutorial period. This visit focuses on developing my quantum computing project's empirical strategy, and the tutorial would provide invaluable exposure to cutting-edge methodologies and research leaders in the intersection of digital technologies, AI, and economics. Additionally, attending the concurrent NBER Digital Economics and AI meetings would allow me to engage with the broader research community working on related questions.