Application for Digital Economics and AI Tutorial

Contact Information

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Graduate Study and Enrollment

I am currently a PhD student in Economics at Copenhagen Business School's Department of Economics. I have completed all required coursework from multiple institutions: **Completed Courses:**

- PhD Introduction Course (CBS, mandatory) – Completed January 2025
- Learning to Teach (CBS, mandatory) – Completed January 2025
- Labour Economics (CBS) – Completed December 2024
- Advanced Microeconomics (CBS) – Completed December 2024
- Advanced Macroeconomics (CBS) – Completed December 2023
- Advanced Econometrics and Data Science (CBS) – January–March 2025
- Household Behavior over the Life Cycle (University of Copenhagen) – February–June 2025
- Empirical Finance: Identification Strategies in Corporate Finance (CBS) – March 2025

Prior to my PhD, I earned an MSc in Advanced Economics and Finance from Copenhagen Business School (2022–2024) and a Bachelor of Business Administration from The Chinese University of Hong Kong (2018–2022). I was a Visiting Recognised Student at the University of Oxford from April–June 2025.

Research Interests

My research centers on two fundamental questions: how do people live, and how can they live better? I investigate wellbeing—the quality of people's current lives—and innovation—the processes that drive improvements in living standards. Labor markets serve as the primary setting where I examine both dimensions: how work affects human flourishing and how technological innovations reshape opportunities for better lives.

My methodological focus involves developing and applying large language models (LLMs) as measurement instruments for extracting economic variables from unstructured text data, particularly job postings and administrative microdata. I specialize in labor economics and innovation studies, with technical proficiency in Python, Stata, and R. My work extensively utilizes Danish administrative registers and requires secure on-premise deployment of AI models to address data confidentiality constraints.

Research Projects in Progress

1. AI Adoption in the Danish Labor Market
With Anders Humlum (UChicago), Evan K. Rose (UChicago), and Emilie Vestergaard (UCPH)

This project studies AI technology adoption in Danish firms through a survey approach.

2. LLMs as Economic Measurement Tools: A Framework for Job Posting Classification
With Daniel Hardt (CBS)

This paper develops LLMs as measurement instruments for extracting economic variables from unstructured text. Using 986 manually-annotated Danish job postings, we construct a 25-category classification system for skills and workplace flexibility. Open-source models (Llama-3.3-70B) match GPT performance while enabling on-premise deployment for confidential data.

3. Inequality and the Direction of Technological Progress
With Antonin Bergeaud(HEC), Kai Arvai (Banque de France) and Katja Mann(CBS)

This project examines how technological innovations affect inequality through their impact on the direction of technological change and skill requirements in the labor market.

4. The Role of Work and Workplaces on Mental Health
With Barbara Petrongolo (Oxford), Marco Manacorda (QMUL), and Mathias Jensen (Oxford)

Using Danish administrative registers, we examine how workplace characteristics and employment conditions causally affect mental health outcomes and explore policy interventions to support worker wellbeing.

5. Innovation and the Demand for Skills
With Moira Daly (CBS), Cedric Schneider (CBS), and Hajime Shimao (Penn State)