Application for Digital Economics and AI Tutorial 2026

Zhichen Chen
PhD Candidate
Questrom School of Business, Boston University
Email: zhichenc@bu.edu

Course of Graduate Study and Years of Enrollment

I am currently a fourth-year PhD candidate in the Questrom School of Business at Boston University, enrolled in 2022. My coursework has provided a strong foundation in experimental and econometrics methods. Key courses include:

- Advanced Microeconomics, Macroeconomics, and Econometrics I/II
- Field Experiment
- Advanced Topics in Microeconomic Theory
- Causal Inference
- Analytical Modeling
- Empirical Industrial Organization
- Machine Learning
- Natural Language Processing
- Generative AI (seminar)
- UChicago Experimental Summer School (online)

Research Interests, Ongoing Projects and Dissertation

My research lies at the intersection of econometrics, experimental methods (lab and field), and machine learning. I explore how digital platforms and AI technologies influence societal outcomes, with a particular focus on healthcare and user-generated content.

Published Research

A milestone in my research journey is the publication of *Generative AI Degrades Online Communities* in *Communications of the ACM* (with Gordon Burtch and Dokyun Lee). This paper

examines the impact of generative AI on content creation and user engagement. Building on this, my second co-authored study, *The Consequences of Generative AI for User-Generated Content and Online Community Engagement*, was recently published in *Nature: Scientific Reports*. This study highlights how large language models (LLMs) like ChatGPT have influenced platforms like Stack Overflow and Reddit, with varying outcomes depending on the platform's social structure.

Dissertation and Current Research Projects

I am expanding my research on patient-side AI adoption in healthcare using field experiments across three major projects that together form my dissertation.

Digital Interventions to Combat Stigma in Mental Health Support

In collaboration with Gordon Burtch, Bin Gu, and Chrysanthos Dellarocas, I am examining the role of AI in reducing stigma and promoting mental health services. Through a combination of lab and field experiments, this research explores AI's potential to address mental health challenges. This paper is currently under major revision at Management Science, and we are preparing to resubmit.

Cannibalize or Complement? AI and Demand for Healthcare Services

I collaborate with an AI vendor that provides solutions for hospitals to run large-scale field experiments examining whether AI tools cannibalize or augment demand for healthcare services, and how AI-driven patient engagement reshapes care-seeking behavior, service utilization, and interactions between patients and medical professionals. This is an ongoing work.

Physicians' Responses to Patient Use of AI (Job Market Paper)

By running a field experiment, I study how physicians respond when patients use AI tools for health information during online medical consultations. This is a joint work with Gordon Burtch and Bin Gu. The manuscript is ready, and we plan to submit by the end of the first quarter 2026.

Committee Members

Gordon Burtch (Chair)

Bin Gu