

Peter Shum

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Education

Duke University

Durham, NC

PH.D. IN ECONOMICS

Aug. 2019 - Present

- Committee Members: Attila Ambrus, Rachel Kranton, Curtis Taylor, David McAdams
- Expected Graduation: Spring 2025

London School of Economics and Political Sciences

London, United Kingdom

MSC ECONOMICS

Aug. 2017 - Jul. 2018

- Distinction in all Modules
- Extended Essay in Industrial Organization

The University of Hong Kong

Hong Kong

BACHELOR OF ECONOMICS

Sep. 2012 - Jul. 2016

- Majors in Economics and Mathematics

National University of Singapore

Singapore

EXCHANGE STUDY

Jul. 2015 - Jan. 2016

- Courses in Mathematics

Skills

Programming Mathematica, Stata, R, Excel VBA, Java Script, VBA, Python

Languages Fluent English, Native Cantonese, Fluent Mandarin

Teaching

Instructor for ECON205 - Microeconomics Analysis II

Duke University

INSTRUCTOR

July-Aug. 2024

- [Evaluations.]

Instructor and TA for ECON700 - Mathematics for Economists

Duke University

INSTRUCTOR AND TA

July - Aug. 2021, July - Aug. 2022

- Summer Math camp for Ph.D. students from the Economics and Public Policy departments

TA for ECON620 - Game Theory with Applications

Duke University

TA FOR PROF. ATTILA AMBRUS AND PROF. NELSON SA

Aug. 2023 - May 2024

TA for ECON701&705 - Microeconomics Analysis I & II

Duke University

TA FOR INSTRUCTORS PROF. PHILIPP SADOWSKI, PROF. CURTIS TAYLOR, AND PROF. TODD SARVER

Aug. 2020 - May 2021

- Core microeconomics sequence for PhD students of Economics and Public Policy department
- [Evaluations.]

Fellowship

Summer Research Fellowship

Duke University

June - Aug. 2022 and 2023

Research Assistant for Professor Arjada Bardhi

Duke University

RESEARCH ASSISTANT

Aug. 2022 - May 2023

- Coding support in Mathematica.

Graduate Assistant for Professor Attila Ambrus

Duke University

GRADUATE ASSISTANT

Aug. 2021 - May 2022

- Help in developing course material.
- Support in research.

Working Papers

Caught in the Middle: Incentive and Information Hierarchies

Duke University

CO-AUTHOR WITH PROF. CURTIS TAYLOR

Forthcoming

- Abstract: In large corporations, hierarchies among its employees are usually present. Previous literature establish models where the transmission of information within a hierarchy mitigates coordination problems in teamwork. This paper endogenizes incentive provision in such settings. The results predict possibility of “fat top” structures which fits observational findings. This paper provides a novel explanation of why middle managers suffer particularly in the corporate hierarchy.
- Draft [here](#).

Bribery and the Rise of Extreme Politics

Duke University

SOLO-AUTHOR

Forthcoming

- Abstract: In contrast to Hotelling’s Horizontal Differentiation model, polarization of politicians is prevalent throughout political history, and even more so in the digital age. I develop a model that connects lobbying incentives and the extreme platforms of politicians. I show that extreme platforms can arise from uniform preliminaries. The model is also applied to the suburbanization of the manufacturing industry.

Works in Progress

Underinvestment in Buyer-Seller Network

Duke University

SOLO-AUTHORED

Forthcoming

- Abstract: I construct a network formation model for the buyer-seller networked market from Kranton and Minehart (2001). Agents anticipate resulting network structures and demand a transfer along with the costly link formation. My results predict that with moderate link formation cost, the potential deviation of the trading partners deters the formation of networked markets. The whole market may vanish under specific conditions. I also suggest some remedies for this under-investment.

References

Prof. Attila Ambrus (Chair)

Professor of Economics

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TBC

Prof. Curtis Taylor

Professor

Duke University

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USA

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Prof. Nelson Sa

Assistant Professor of the Practice of Economics

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