

KEVIN PIERRE MOTT

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EDUCATION

Carnegie Mellon University Tepper School of Business	Pittsburgh, PA
Ph.D. in Financial Economics Minor in Economic Computation	<i>exp. May 2024</i>
M.S. in Financial Economics	<i>May 2021</i>
Northeastern University B.S. in Mathematics Minors in Economics, Chinese Language	Boston, MA <i>May 2019</i>
Sichuan University Study Abroad Coursework in Chinese Language	Chengdu, China <i>Summer 2018</i>

RESEARCH INTERESTS

Topical:

Life-cycle portfolio choice, asset pricing, macro-finance, public finance, demographics

Methodological:

Functional approximation: machine learning (neural networks), scientific computing

WORK(S) IN PROGRESS

Life-Cycle Student Debt and Asset Prices

Student loan debt is one of the largest household liabilities in the United States, but structural macroeconomic models which include student debt as a financial security are lacking in the macro-finance literature. Under the assumption that households which borrow student debt have higher human capital (and therefore higher wages), I model student debt within a stochastic overlapping generations economy with multiple assets. With the key general equilibrium channels being (1) agents' need to finance retirement savings and (2) the productivity externality of higher education levels, I evaluate the asset pricing implications of the re-balancing of agents' portfolios resulting from counterfactual student debt policies. Using neural networks to approximate global policy functions, I contribute to the literature on (unsupervised) machine learning applications to macroeconomics and finance.

CONFERENCES AND PRESENTATIONS

Society for Economic Measurement Invited Speaker Life-Cycle Student Debt and Asset Prices	Calgary, AB <i>August 11-13, 2022</i>
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AWARDS AND HONORS

- Pittsburgh Supercomputing Center Resources Grant *2022*
- TCS Presidential Fellowship, Carnegie Mellon University *2021-2022*
- Dean's Research Fund, Carnegie Mellon University *2020*
- William Larimer Mellon Fellowship, Carnegie Mellon University *2019-2024*

TECHNICAL SKILLS

Numerical Computing	Julia, MATLAB
Machine Learning	Python (PyTorch, TensorFlow), XSEDE Supercomputing Resources
Statistical Programming	R, Python
Tools	L ^A T _E X, Git(hub)
Operating Systems & Scripting	Linux Ubuntu (bash), macOS (zsh), Python
Miscellaneous	Microsoft Excel, SQL
Languages	English (native), Chinese (普通话, conversational)

TEACHING AT CARNEGIE MELLON UNIVERSITY

Instructor

MBA:

Advanced Microsoft Excel Workshop

Fall 2021, Spring 2022

Teaching Assistant

Undergraduate:

Principles of Macroeconomics

Spring 2021, Fall 2021, Spring 2022

Intermediate Macroeconomics

Fall 2021

MBA:

Venture Capital and Private Equity

Spring 2021

PhD:

Dynamic Competitive Analysis

exp. Fall 2022

Microeconomics I

Fall 2021, exp. Fall 2022

Econometrics I

Fall 2021

PERSONAL INFORMATION

Citizenship: United States of America

Interests: Classical music, weightlifting, hiking, history, literature

Native of Long Island, New York