ROXANA MIHET

NEW YORK UNIVERSITY, STERN SCHOOL OF BUSINESS

PERSONAL DETAILS

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Nationality:	Romanian (F1 visa)
DOB:	25 Jan 1989 (30 years old)

EDUCATION

Ph.D. in Economics, **New York University, Stern School of Business**	2014 – 2020 (exp)
M.Phil in Economics, **New York University, Stern School of Business**	2018
M.Phil. in Economics at Nuffield College, **University of Oxford** (Distinction)	2012 –2014
B.A. in Economics, **University of Chicago** (Honors)	2007 –2010

FIELDS

Primary: Information Economics, Macroeconomics, Financial Economics
Secondary: Bounded Rationality, Rational Inattention, Asset Pricing

TEACHING

Introduction to Microeconomics, NYU, TF for M. Dickstein, L. Cabral, and S. Bowmaker	2019, '18, '17
Information Theory, NYU, TA for L. Veldkamp and V. Venkateswaran	2016
Graduate Advanced Macroeconomics, NYU, TA for T. Sargent and L. Ljungqvist	2015

AWARDS AND DISTINCTIONS

Macro-Financial Modeling Dissertation Grant, Alfred P. Sloan Foundation	2018-2019
Internet Association Research Grant for "The Economics of Big Data"	2018
MFM Summer Session Fellowship	2016, 2018
NYU Stern Doctoral Fellowship	2014-2019
Oxford – Distinction for MPhil Thesis	2014
Oxford - Nuffield College Studentship	2012-2014
ACEI President Prize for the Best Student Paper	2012
University of Chicago Dean's List for Academic Performance	2007-2010
University of Chicago Academic Studentship	2007-2010
United Nations Development Program Scholarship	2007-2011

RESEARCH EXPERIENCE

PhD Fellow, Monetary and Economic Department, BIS	Spring 2019
PhD Research Intern, EUR, Nordic Unit, IMF	Summer 2018
Research Assistant for Professor Laura Veldkamp, NYU Stern	2015-2018
Research Assistant for Professor Thomas Philippon, NYU Stern	2016-2018
PhD Research Intern, Norges Bank	Summer 2016
Graduate Research Intern, EBRD	Summer 2013
Research Assistant, MFU Research Unit, International Monetary Fund	2010-2012

PROGRAMMING EXPERIENCE AND FOREIGN LANGUAGES

Matlab, Mathematica, Stata, EViews, OxMetrics, LaTeX
Romanian (native), English (proficient), French (advanced), Spanish (intermediate)

RESEARCH AND PUBLICATIONS

1. Are Financial Information Technologies Making the Rich Richer? (**JMP 2019**, in progress)
2. Information Contagion in Endogenous Financial Networks (in progress)
3. Is Big Data Contributing to Increased Markups? (in progress)
4. Big Data and Firm Dynamics (forthcoming as **AER P&P 2019**, with M. Farboodi, T. Philippon, L. Veldkamp)
5. The Economics of Big Data (forthcoming as WP issued by the Internet Association 2019, with T. Philippon)
6. Choosing Not to Pay: How Housing Amplified the Great Recession (revise at **JMCB 2018**)
7. Review of "Is the Macroeconomy Locally Unstable and Why Should We Care? (**NBER Macro Annual 2017**, with L. Veldkamp)
8. Macro-prudential Policies to Mitigate Financial System Vulnerabilities (**JIMF 2014**, with S. Claessens and S. Ghosh)
9. Effects of Culture on Firm Risk-Taking: A Cross Country and Cross Industry Analysis (**JCEC 2013**)

PROFESSIONAL ACTIVITIES

Refereeing: Journal of Economic Theory (Certificate of Reviewing), Journal of Monetary Economics, Journal of Money and Central Banking, Journal of International Money and Finance (Certificate for Outstanding Reviewing), Journal of Financial Stability (Certificate of Reviewing), Journal of Financial Economics, Journal of Cultural Economics, Economic Dynamics

Presentations: 2019: AEA and AFA (poster), BIS (scheduled).
2018: Chicago Booth Asset Pricing Workshop (poster), NYU Student Macro Mini-Conference, UToronto NBER Doctoral Workshop on Artificial Intelligence, IMF Research Seminar, IMF European Seminar, Wharton Women in Academia Conference, MFM Summer Session (poster), IMF EUR, IMF RES, Sargent Reading Group.
2017: NYU Stern Friday Seminar, Sargent Reading Group, Gertler-Midrigan Reading Group.
2016: Norges Bank Housing Market Conference.
2014: University of Birmingham RES Macroeconomics.
2013: University of Oxford Gorman Research Workshop, EBRD Research Seminar.
2012: Association for Cultural Economics, IMF Research Seminar.

REFERENCES

Professor Laura Veldkamp
Professor of Economics
New York University, Stern Economics
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Professor Venky Venkateswaran
Assistant Professor of Economics
New York University
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Professor Thomas Philippon
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Professor John Muellbauer
Professor of Economics
Nuffield College, University of Oxford
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Summary of interest in AI

Roxana Mihet (5th year PhD student)

NYU, Stern School of Business

February 1st 2019

Advances in financial information technologies promise to make stock-markets more inclusive and dampen wealth and capital income inequalities. The internet of things, machine learning, AI algorithms trained on big data sets, electronic trading, and so on, have greatly reduced the cost of transactions, provided greater liquidity, greater competition, and increased transparency in financial markets. There is hope that these advances will make the returns of the poor and the rich converge.

In my dissertation at NYU, I build various theoretical models that feature new information technology innovations to understand the ever-changing nature of financial information and its consequences for the macroeconomy and the financial sector. My work has been supported by the Internet Association and the Becker Friedman Institute.

1) **FinTech:** In one paper, I show that advances in financial information technologies do not necessarily translate into more equal outcomes and can actually lead to a more concentrated asset management sector that can exacerbate gender and class inequalities. The model can be used to explain how much of the recent growth in inequality is due to the rich capturing all the rents to the disadvantage of the poor.

2) **Data Feedback Loops:** In another paper, I show that data feedback loops affect firm dynamics and industry competition. For example, big data technologies increase the skewness of the firm size distribution as large firms generate more data and invest more in active experimentation. On the other hand, small data-savvy firms can overtake more traditional incumbents, provided they can finance their initial money-losing growth. My model can be used to estimate the market and social value of data.

3) **Big Data:** And lastly, in another paper, I am investigating dynamic competition in the era of big data and the consequences of price discrimination on consumer welfare.