MARTSELLA DAVITAYA

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Placement Assistant: Amy Devine, aed2152@columbia.edu

REFERENCES

Hassan Afrouzi

Assistant Professor of Economics Columbia University

ha2475@columbia.edu

Michael Woodford

John Bates Clark Professor of Political **Economy** Columbia University michael.woodford@columbia.edu

Andres Drenik

Assistant Professor of Economics The University of Texas at Austin andres.drenik@austin.utexas.edu

EDUCATION

Columbia University

2023 Ph.D. in Economics Candidate (expected) M.Phil. in Economics 2020 M.A. in Economics 2019

- Fields: Macroeconomics, Econometrics (secondary)

NRU Higher School of Economics and University of London International College of Economics and Finance / International Programs under the academic direction of the **London School of Economics**

B.Sc. in Economics (HSE) / B.Sc. in Economics and Finance (UoL)

2013 - 2017

- Graduated with Honors (HSE) and First-Class Honors (UoL)

RESEARCH

My research lies at the intersection of household finance and macroeconomics, combining structural macroeconomic models with analyses of macro and micro data, and contributes to two research agendas. The first relates to the channels through which monetary policy impacts the economy. The second aims to understand how heterogeneity observed at the micro level affects the economy.

Job Market Paper: Monetary Policy Implications of Heterogeneous Mortgage Refinancing with A. Burya

We show that credit score heterogeneity dampens monetary policy transmission through fixed-rate mortgages. Using Fannie Mae Single-Family Loan-Level historical data, we show that a 1% increase in mortgage rate increases the refinancing probability for borrowers with a FICO credit score of 800 twice as much as that of borrowers with a FICO score of 700. We then develop a refinancing model and find that credit score heterogeneity dampens consumption response to monetary policy by 11%, compared to a standard model with only mortgage rate heterogeneity. Borrowers with lower credit scores face tighter borrowing limits and benefit from refinancing more than borrowers with higher credit scores, but face more difficulties obtaining refinance loans, resulting in a smaller consumption response.

If far-ahead inflation compensation is insensitive to incoming economic news, then inflation expectations remain anchored. Using daily bond yield data, we show that inflation compensation is less sensitive to monetary policy shocks in the U.S. if the Fed is more responsive to inflation during the most recent CPI release. The empirical strategy consists of two steps. First, we construct a measure of market expectations about the Fed's reaction to inflation, which equals changes in different interest rates unexplained by the size of the inflation shock and exogenous monetary policy. Second, we estimate the sensitivity of inflation compensation's response to monetary policy conditional on the expectations of the Fed's reaction to inflation. Our estimates suggest anchoring of long-term inflation expectations in the U.S.

Recessions, Social Security, and Retirement

The main difficulty in studying the effect of retirement income on labor supply is that factors that affect retirement income correlate with the labor force participation rate. Using the Health and Retirement Study and Social Security Administration income data, I overcome this difficulty by utilizing the fact that the Social Security benefit is a function of the economic conditions when the worker turns 60. My estimates suggest that the labor supply elasticity of older workers is -0.19 at the extensive margin and -0.57 at the intensive margin. This estimate is relevant for studying effects of macroeconomic shocks on the employment of older workers, optimization of public and fiscal policies, and calibration of life-cycle models.

Games of Cheating with Kosmas Marinakis

We develop a model of risky information transmission between a higher and a lower ability agent, which closely resembles academic cheating behavior. Assuming no synergy effects between agents or correlation of outputs, we derive a substitution and a strategic effect, both of which dictate the behavior of agents when information transmission is feasible. We show that the higher ability agent may find it strategically useful to moderate her effort in order to limit the supply of information and curb her risk. We also find that the use of a relative compensation scheme may cause cheating activity to increase when the coefficient of relative incentives is not sufficiently high. Even when relative incentives are powerful enough to mitigate cheating, this seriously distorts the incentives, causing high-ability agents to further cut down on effort. We conclude that performance in the group is higher when similar ability agents are matched, and that the only cost-free way to deter cheating is to match agents of similar abilities together, since the risk of transmitting information will offset its benefit. We also extend the model to include the case where the higher ability agent can choose the level of her cheating supply.

AWARDS, FELLOWHIPS & GRANTS

Awards

2021 - 2022
2020 – 2021
2010 2020
2019 – 2020
2017
2017
2017
2016

Fellowships	
Dean's Fellowship (Columbia University) 201	7 – 2023
Dissertation Fellowship (Columbia University)	2022
Wueller Fellowship (Columbia University) 201	7 – 2022
Merit-based scholarship covering 75% of tuition fees (Higher School of Economics) 201	4 - 2017
Merit-based scholarship covering 60% of tuition fees (Higher School of Economics) 201	3 – 2014
Grants	
GSAS Matching Travel Grant (Graduate School of Arts and Sciences, Columbia University)	2022
Economics Fluctuations Colloquium Travel Grant (Department of Economics, Columbia University)	2022
The Program for Economic Research (PER) Travel Grant (Columbia University)	2022
TEACHING EXPERIENCE & TRAINING	
Columbia University	
Teaching Development Program (Foundational Track) at the Center for Teaching and Learning	all 2022
Teaching Assistant in Introduction to Econometrics I (Graduate) for Professor Seyhan Erden	all 2021
	Summer 2021
Students) for Professor Raheem A. Haji Teaching Assistant in Advanced Macroeconomics (Undergraduate) for Professor Irasema Alonso Spri	ng 2021
	all 2020
•	ng 2020
•	all 2019
	ng 2019
	all 2019
National Research University - Higher School of Economics	all 2016
	5 – 2016
	5 – 2016
Lecturer und Class Teacher at the ICEF Evening School (Frograms for Flight School Students)	3 – 2016
WORK EXPERIENCE	
Columbia Business School	
Research Assistant for Professor Steven Zeldes 201	9 – 2020
- Tested cointegration between stock prices and GDP per capita for 49 countries using the Global Financial Database	
Promsvyazbank	
Summer Intern at the Department of Corporate Business Development	2015
- Developed the VBA code for filtering and analyzing the data on corporate bank clients	2010
Developed the VDII code for intering and analyzing the data of corporate baris exertion	
CONFERENCES & PRESENTATIONS	
AREUEA (The American Real Estate and Urban Economics) National Conference: Monetary Policy	2022
Implications of Heterogeneous Mortgage Refinancing	2022
Successfully Navigating Your PhD: A Mentoring Workshop for 3rd Year + Women & Non-Binary PhD	2020
Students in Economics & Economics-Adjacent Fields: Recessions, Social Security, and Retirement	2020

SKILLS

Technical: MATLAB, STATA, R, EViews, SAS, VBA Excel

Languages: Russian (Native), Georgian (Native), English (Fluent), Spanish (Intermediate)

MISCELLANEOUS

Member of Econ Soccer Team "The New Kanesians=Keynes+H.Kane" (Columbia University)	Sep 2021 -
Board Member of Association of Graduate Economics Students (Columbia University)	Sep 2017 -
President of Association of Graduate Economics Students (Columbia University)	2019 - 2020
Member of Mentoring Program (International College of Economics and Finance, Higher School	2014 – 2016
Economics)	
Member of IcefCrew – student community that organizes all extracurricular events (International	2013 – 2016
College of Economics and Finance, Higher School Economics)	
Member of the Association of Intellectual Clubs (Higher School of Economics)	2013 - 2016