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NBER
Call for Graduate Student Workshop on Heterogenous-Agents Macroeconomics

22 February 2022

To whom it may concern,

Please consider my candidacy as a participant in the workshop. Below find my statement of purpose and a CV. Regarding my research prospects and interest in the workshop please refer to an associate professor from my Doctorate Programme Luis Franjo Garcia (luis.franjogarcia@ua.es).

Thank you for your time. I look forward to hearing from you soon.
Sincerely,

Adilya Abdrazakova

Below:: CV, Statement of Purpose

CURRICULUM VITAE

Adilya Abdrazakova

Residence:
Spain, Alicante, Calle de Toledo 9
+34 633 40 70 13
abdrazakovaa@gmail.com

Personal Information:

Birth Date: 25/07/1997
Nationality: Kyrgyz Republic

EDUCATION

Bachelor of Arts in Economics
University scholarship with fully funded accommodation and tuition fees
Bilkent University, Ankara, Turkey
(Top 5% of 2013 cohort) 09/2013 - 06/2017

Masters in Quantitative Economics
Department scholarship
University of Alicante, Spain 09/2019 - 07/2021
(Top grade of 2019 cohort)

PhD in Economics
University of Alicante, Spain 09/2021 - *present*

WORKING EXPERIENCE

Intern
IPPA office (Institute of Public Policy Administration)
http://www.ucentralasia.org/Research/ippa
University of Central Asia (UCA), Bishkek, Kyrgyz Republic 06/2016 - 08/2016

Audit Intern
Ernst & Young Audit LLC, Bishkek, Kyrgyz Republic 10/2018 - 07/2019

TEACHING EXPERIENCE

University of Alicante:

- *Theory and Practice (Undergraduate Mathematics II)*
  Spring 2021

- *Practice (Undergraduate Mathematics I)*
  Fall 2021

- *Practice (Graduate Macroeconomics I)*
  Fall 2020
  Fall 2021

LANGUAGE AND SOFTWARE SKILLS

Russian (fluent)
English (fluent)
Kyrgyz (medium)
Turkish (medium)
Spanish (basic)

Software skills: MS Office, Eviews, MATLAB, Dynare, STATA, FORTRAN, Python, LaTex

COMPLETED GRADUATE LEVEL MACROECONOMICS COURSES

University of Alicante:

Macroeconomics I
- Dynamic optimization in discrete time (dynamic programming), optimal control, neoclassical growth model.

Macroeconomics II
- Solow, RCK, endogenous growth models, OLG, models of debt crises, fiscal policy and cost of deficits, asset pricing and bubbles.

Macroeconomics III
- RBC (with nominal rigidities), New Keynesian framework.

Advanced Macroeconomics II
- Structural VAR, Speculative Bubbles (AR processes, persistent regressors, predictive regressions).

Advanced Topics in Macroeconomics
- Heterogeneous Agents Models: Standard Complete Markets model, Standard Incomplete Market model, Global Solutions Methods (including discretization, linear interpolation, endogenous grid methods), some applications to HA models.

Macroeconometrics
- Dynamic Factor Models, forecasting using small and large scale models, Kalman Filter, Markov-Switching and threshold models.

Adilya Abdrazakova abdrazakovaa@gmail.com

Statement of Purpose

Applicant for NBER Heterogeneous- Agent macroeconomics workshop

Dear admission committee,

I am a first- year PhD student in the Quantitative Economics Doctorate Program of University of Alicante, Spain. According to the Spanish system of graduate studies, it is equivalent to a third- year US PhD as the course load is covered in a preceding two- year Masters, which I have completed with the highest grade of the cohort. A pivotal optional graduate course acquainted me with the heterogeneous agents (HA) framework. Subsequently, I started working, jointly with my advisors, on an occupational choice model with HA. We aim to quantify the importance of human capital investment choices in the presence of informality and financial frictions in developing economies. Moreover, this project has been instrumental in learning computational methods of HA in FORTRAN. This is where my current research lies. In the future, I hope to expand my work incorporating fiscal and monetary policy design in line with Itskhoki and Moll (2019). Furthermore, along with familiarity with the HA framework in discrete time and a solid understanding of the New- Keynesian framework, I would be able to employ insights and computational tips from the workshop in my research from an inequality perspective. That analysis would follow a recent contribution by the workshop lecturers, Auclert et al. (2021) on the importance of monetary policy given micro evidenced heterogeneity in the population.

I strongly believe to be a suitable candidate for the workshop. Despite the Atlantic ocean between us, not only I possess an adequate background to absorb the workshop's contents, but I also believe to have sufficient drive to turn this training experience into contributions to the development and inequality literature. Having first-hand experience, as a post-soviet republic citizen, observing extreme inequality and corruption, I am motivated to research the re-distributive implications of policy changes as well as sources of misallocation stemming from entrepreneurship in developing countries. As the literature on entrepreneurship and financial frictions has been prominent in explaining wealth distributions, the HANK framework would allow me to incorporate and further investigate monetary policy effects in developing economies. Besides the evident importance of heterogeneity in my research interests, one of the key aspects to attend the workshop is to learn state-of-art solution methods to tackle such highly computational models. This unique opportunity would be indispensable to my research.

Understanding the competitiveness of the workshop, thank you for your time and consideration.

References

A. Auclert, M. Rognlie, and L. Straub. Micro jumps, macro humps: Monetary policy and business cycles in an estimated hank model. *R&R in American Economic Review*, 2021.

O. Itskhoki and B. Moll. Optimal development policies with financial frictions. *Econometrica*, 87, 2019. doi: 10.3982/ECTA13761.