

Curriculum Vitae

Mahdi Ebrahimi Kahou

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PERSONAL INFORMATION

Citizenship: Canadian, Iranian
Contact Info: mekahou@alumni.ubc.ca, [Website](#).

RESEARCH INTERESTS

Macroeconomics, Machine Learning, Econometrics, and Computational Economics.

EDUCATION

- Doctor of Philosophy in Economics, [University British Columbia](#). 2017-
Committee: [Dr. Jesse Perla](#) (UBC), [Dr. Jesús Fernández-Villaverde](#) (UPenn),
[Dr. Hiroyuki Kasahara](#) (UBC), [Dr. Vadim Marmer](#) (UBC)
 - Visiting scholar at Federal Reserve Bank of Minneapolis. October 2022
- Doctor of Philosophy in Economics, [University of Minnesota](#).
Voluntary withdrawal due to the U.S. travel ban after finishing the first year.
- Master of Science in Physics,
[Institute for Quantum Science and Technology](#), [University of Calgary](#).
Thesis Topic: [Spatial search via non-linear quantum walk](#)
Supervisor: [Dr. David Feder](#)
- Bachelor of Science in Physics, [Sharif University of Technology](#).

WORKING PAPERS

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- “[Exploiting Symmetry in High-Dimensional Dynamic Programming](#)”, NBER Working Paper, 2021.
With [Jesús Fernández-Villaverde](#), [Jesse Perla](#), and [Arnav Sood](#).
 - “[Spooky Boundaries at a Distance: Exploring Transversality and Stability with Deep Learning](#)”.
With [Jesús Fernández-Villaverde](#), [Sebastian Gomez Cardona](#), [Jesse Perla](#), and [Jan Rosa](#).
 - “[Optimal Entry Decision with Correlated Variable Cost and Output Price](#)”.

WORK IN PROGRESS

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- “[Solving Equilibrium Economic Models with Deep Learning](#)”.
With [Jesús Fernández-Villaverde](#) and [Jesse Perla](#).

PUBLICATIONS

- “Quantum Search with Interacting Bose-Einstein Condensates”, Physical Review A, 2013. (With David L. Feder)
- “Macroprudential Policy: A Review”, Journal of Financial Stability, 2017. (With Alfred Lehar)

SCHOLARSHIPS, AWARDS AND HONOURS

- Selected for 71st Lindau Nobel Laureate Meeting on Economic Sciences.
- Social Sciences and Humanities Research Council (SSHRC) Doctoral Fellowship.
- Four Year Doctoral Fellowship (UBC).
- Faculty of Graduate Studies Award (University of Calgary).
- Institute for Quantum Science and Technology “Top-Up Students Award” (University of Calgary).
- Bronze medal in National Physics Olympiad.

PRESENTATIONS

- 2023: Econometric Society Summer School in Dynamic Structural Econometrics (Scheduled), University of Toronto, University of Calgary (Haskayne School of Business), Bowdoin College, Bates College, University of Waterloo, Western University, McGill, Bank of Canada, University of Missouri.
- 2022: Society For Economic Dynamics (Madison), University of Minnesota, University of Colorado Boulder.
- 2012: Southwest Quantum Information and Technology(Albuquerque), Canadian Association of Physicists (Calgary).

REFERENCES

- Dr. Jesse Perla
Associate Professor of Economics
University of British Columbia
6000 Iona Drive, Vancouver, BC Canada V6T 1L4.
Phone: +1 604 822-5721
E-mail: jesse.perla@ubc.ca.
- Dr. Jesús Fernández-Villaverde
Professor of Economics
University of Pennsylvania
The Ronald O. Perelman Center for Political Science and Economics
133 South 36th Street, Philadelphia, PA 19104.
Phone: +1 215 573-1504
E-mail: jesusfv@econ.upenn.edu
- Dr. Hiroyuki Kasahara
Professor of Economics
University of British Columbia
6000 Iona Drive, Vancouver, BC Canada V6T 1L4.
Phone: +1 604 822-4814
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- Dr. Vadim Marmer
Professor of Economics
University of British Columbia
6000 Iona Drive, Vancouver, BC Canada V6T 1L4 .
Phone: +1 604 822-8217
E-mail: Vadim.Marmer@ubc.ca

TEACHING EXPERIENCE

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- TA for Computational Economics with Data Science Applications, UBC. 2019
 - TA for Information and Incentive (graduate), UBC. 2019
 - TA for PhD Econometrics Theory, UBC. 2018
 - TA for honor level macroeconomics and microeconomics, UBC. 2019-2020
 - TA Economic Growth, University of Minnesota. 2016
 - TA for Phys 211/221, Phys 259 and Phys 369, University of Calgary. 2010-2012
 - TA for Analytical Mechanics I&II, Sharif University of Technology. 2007-2008

COMPUTER PROGRAMMING

- MATLAB, Mathematica, Julia, Python.