

Curriculum Vitae

Mahdi Ebrahimi Kahou

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PERSONAL INFORMATION

Citizenship: Canadian
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RESEARCH INTERESTS

Macroeconomics, Machine Learning, Econometrics, and Computational Economics.

EMPLOYMENT

- Assistant Professor of Economics, Bowdoin College 2023-

EDUCATION

- Doctor of Philosophy in Economics, [University British Columbia](#). 2017-2023
Thesis: [Essays on theory and computation in economics](#)
 - 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: [Spatial search via non-linear quantum walk](#)
- Bachelor of Science in Physics, [Sharif University of Technology](#).

WORKING PAPERS

- [“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

- “Solving Equilibrium Economic Models with Deep Learning”.
With Jesús Fernández-Villaverde and Jesse Perla.
- “Solving Under-determined Functional Equations with Kernel Methods: Applications to Infinite-Horizon Optimal Control Problems”.
With Jesse Perla, Geoff Pleiss, James Yu.

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

- 2024: Toronto Metropolitan University (Scheduled)
- 2023: TeIAS, Econometric Society Summer School in Dynamic Structural Econometrics (invited), 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
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University of British Columbia
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Phone: +1 604 822-5721
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- 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
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- Dr. Hiroyuki Kasahara
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- Dr. Vadim Marmer
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 University of British Columbia E-mail: Vadim.Marmer@ubc.ca
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TEACHING
EXPERIENCE

- Principles of Macroeconomics, Bowdoin. 2023
- Intermediate Macroeconomics. Bowdoin 2023
- 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.