

# Curriculum Vitae

## Mahdi Ebrahimi Kahou

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### PERSONAL INFORMATION

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Citizenship: Canadian, Iranian  
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### RESEARCH INTERESTS

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Macroeconomics, Machine Learning, Econometrics, and Computational Economics.

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### 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](#).

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### 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](#)”.

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### WORK IN PROGRESS

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

## PUBLICATIONS

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- “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

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- 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

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- 2023: 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

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- 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](mailto: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](mailto:jesusfv@econ.upenn.edu)
- Dr. Hiroyuki Kasahara  
Professor of Economics  
University of British Columbia  
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Phone: +1 604 822-4814  
E-mail: [Hiroyuki.Kasahara@ubc.ca](mailto:Hiroyuki.Kasahara@ubc.ca)
- 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](mailto: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

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- MATLAB, Mathematica, Julia, Python.