

# Curriculum Vitae

## Mahdi Ebrahimi Kahou

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### PERSONAL INFORMATION

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Citizenship: Canadian, Iranian  
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### EDUCATION

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- Doctor of Philosophy in Economics, [University British Columbia](#). 2017-  
Supervisor: [Dr. Jesse Perla](#)
- 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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- “Spooky Action at the Boundary: A Note on Transversality Condition and Stationarity”.  
With Jesús Fernández-Villaverde, Sebastian Gomez Cardona, Jesse Perla, and Jan Rosa.
- “[Exploiting Symmetry in High-Dimensional Dynamic Programming](#)”, NBER Working  
Paper, 2021.  
With Jesús Fernández-Villaverde, Jesse Perla, and Arnav Sood
- “Optimal Entry Decision with Correlated Variable Cost and Output Price”.

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### 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)

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### SCHOLARSHIPS, AWARDS AND HONOURS

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- Selected for 71st Lindau Nobel Laureate Meeting on Economic Sciences.
- 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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- Department of Economics at the University of Colorado Boulder, Scheduled for December 2022.
- “Spooky Action at the Boundary: A Note on Transversality Condition and Stationarity”. Society For Economic Dynamics, Madison, June 2022.
- “Spatial Search by Non-Linear Quantum Walk”. Southwest Quantum Information and Technology, Albuquerque, February 2012.
- “Non-linear Quantum Walk”. Canadian Association of Physicists, Calgary, June 2012.

## 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
- Physics Olympiad teacher in several branches of NODET (National Organization for Development of Exceptional Talents). 2004-2010

## COMPUTER PROGRAMMING

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- MATLAB, Mathematica, Julia, Python.

## REFERENCES

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- Dr. Jesse Perla  
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University of British Columbia  
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E-mail: [jesse.perla@ubc.ca](mailto:jesse.perla@ubc.ca).
- Dr. Jesús Fernández-Villaverde  
Professor of Economics  
University of Pennsylvania  
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