

# Curriculum Vitae

## Mahdi Ebrahimi Kahou

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### PERSONAL INFORMATION

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Citizenship: Iranian, Canadian  
Contact Info: [mahdi.ebk\[at\]gmail.com](mailto:mahdi.ebk[at]gmail.com), [Website](#).

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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
- 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)
- [“Optimal Entry Decision with Correlated Variable Cost and Output Price”](#)
- [“Spooky Action at the Boundary: A Note on Transversality Condition and Stationarity”](#). (With Jesse Perla, Sebastian Gomez Cardona, and Jan Rosa)

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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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- SSHRC Doctoral Fellowship
- Eyes High International Doctoral Scholarship (×2)
- Dr. Murray Fraser Memorial Graduate Scholarship
- Marion Janet & Ian Stormont Forbes Scholarship
- AIMCO Graduate Scholarship in Finance
- Faculty of Graduate Studies Award (University of Calgary)
- Institute for Quantum Science and Technology “Top-Up Students Award”
- Bronze medal in National Physics Olympiad

CONFERENCE  
PRESENTATIONS

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- "Exploiting Symmetry in High Dimensional Programming", UBC Econometrics seminars, April 2021.
- "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, UBC. 2019
- TA for PhD Econometrics Theory, UBC. 2018
- TA Economic Growth University of Minnesota. 2016
- Tutorials for FNCE 601, Managerial Finance. 2014-15
- 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.

LANGUAGES

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- English
- Farsi