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CITIZENSHIP	American, Canadian	
INTERESTS	Macroeconomics, Growth, Macro-Development, Macro-Finance, Computational	
POSITIONS	Assistant Professor, University of British Columbia, 2013 - Present	
EDUCATION	Ph.D., Economics, May 2013 New York University, New York, NY, USA <i>Fields:</i> Macroeconomics, Industrial Organization <i>Committee:</i> Boyan Jovanovic, Thomas J. Sargent, Jess Benhabib B.Sc. Applied Mathematics, 1997 Columbia University, New York, NY	
PUBLISHED PAPERS	Equilibrium Imitation and Growth (with Christopher Tonetti) <i>Journal of Political Economy</i> , 2014 Catch-up and Fall-back through Innovation and Imitation (with Jess Benhabib and Christopher Tonetti) <i>Journal of Economic Growth</i> , 2014 Equilibrium Technology Diffusion, Trade, and Growth (with Christopher Tonetti and Michael Waugh) <i>American Economic Review</i> , <i>Forthcoming</i>	
WORKING PAPERS	Reconciling Models of Diffusion and Innovation: A Theory of the Productivity Distribution and Technology Frontier (with Jess Benhabib and Christopher Tonetti) <i>Conditionally Accepted at Econometrica</i> Product Awareness, Industry Life Cycles, and Aggregate Profits <i>R&R (2nd Round) at Econometrica</i> Doubling Down on Debt: Limited Liability as a Financial Friction (with Carolin Pflueger and Michal Szkup) <i>Submitted. NBER Working Paper</i> Eigendecomposition of Tau Matrices and Applications (with Sven-Erik Ekstrom (Uppsala), Carlo Garoni (Rome), Adam Jozefiak (UBC)) <i>Submitted. arXiv Working Paper</i>	
WORKS IN PROGRESS	Differentiable State Space Models with Application to Estimating with Hamiltonian Monte-Carlo (with David Childers (CMU), Jesus Fernandez-Villaverde (Penn) Christopher Rackauckas (MIT) and Peifan Wu (UBC) Exploiting Symmetry in High-Dimensional Dynamic Programming (with Jesus Fernandez-Villaverde (Penn), Mahdi Kahou (UBC) and Arnav Sood (UBC)) Information, Trading Technology, and Financial Sector Profits (with Michal Szkup (UBC) and Shengxing Zhang (LSE)) Technology Adoption and the The Big Pull (with Michael Peters (Yale))	

GRANTS	<p>SSHRC Insight Grant (2018-2021), \$159,183 <i>Coordination frictions in macro-development: spatial equilibrium, technology traps, and industrial policy</i></p> <p>SSHRC Insight Development Grant (2018-2020), \$68,834 <i>Debt Overhang and Over-Investment</i></p> <p>SSHRC Insight Development Grant (2015-2017), \$43,000 <i>Why Doesn't Technology Diffuse through Migration?</i></p> <p>Hampton Grant (2014-2015), \$22,000 <i>The Growth Dynamics of Innovation, Diffusion, and the Technology Frontier</i></p>
BOOKS	<p>Quantitative Economics with Julia (with Thomas J. Sargent and John Stachurski) Online textbook: https://julia.quantecon.org/</p> <p>QuantEcon DataScience (with Chase Coleman, Spencer Lyon, and Collaborators) Online textbook: https://datascience.quantecon.org/</p>
SEMINARS, CONFERENCES, AND VISITING SCHOLAR	<p>2019: SED (Organizing Committee), NBER Summer Institute (discussant)</p> <p>2018: University of Pennsylvania, University of Toronto Rotman, Yale (Cowles Visiting Scholar), SED (Organizing Committee)</p> <p>2017: UCSD, Stanford, Philadelphia Fed, Minneapolis Fed (Visiting Scholar), WashU Mini-Conference on Macro-Development, Minnesota Macro Theory, St. Louis Fed</p> <p>2016: Simon Fraser University</p> <p>2015: UC Berkeley, University of Pennsylvania, University of Pennsylvania Wharton, Columbia University, AEA, Cowles Foundation (discussant), Nottingham University Conference on Firm and Technology Dynamics</p> <p>2014: San Francisco Federal Reserve, Cowles Foundation (discussant)</p> <p>2013: UCLA, UCSD, Minnesota</p>
TEACHING EXPERIENCE	<p>University of British Columbia, Vancouver, BC, Canada</p> <p>ECON622 - Computational Economics with Data Science Applications (graduate) Created course and moved to approval by the UBC Senate</p> <p>ECON323 - Quantitative Economic Modeling with Data Science Applications (undergraduate) Created course and moved to approval by the UBC Senate</p> <p>ECON302 - Intermediate Macroeconomics (undergraduate)</p> <p>ECON307 - Honors Intermediate Macroeconomics (undergraduate)</p> <p>ECON407 - Topics in Macroeconomics (undergraduate)</p> <p>ECON546 - Monetary Theory and Policy (graduate)</p>
SERVICE	<p>University of British Columbia, Vancouver, BC, Canada</p> <p>Computer Lab Committee</p> <p>Executive Committee</p> <p>Instructor Recruitment Committee</p> <p>Bank of Canada Governor's Challenge (Undergrad Team won 1st Place)</p> <p>Centre for Innovative Data in Economics Research (CIDER) Board Member</p> <p>Advisory Committee of the [SciML](https://sciml.ai/) organization</p>
STUDENT PLACEMENTS	<p>University of British Columbia, Vancouver, BC, Canada</p> <p>Colin Caines, Committee Member (Placed at Federal Reserve Board)</p> <p>João Alfredo Galindo da Fonseca, Committee Member (Placed at Université de Montréal)</p>
REFEREE	<p>Econometrica, American Economic Review, Quarterly Journal of Economics, Journal of Political Economy, Review of Economic Studies, AEJ: Macro, Journal of Economic Growth, Journal of International Economics, International Economic Review, Review of Economic Dynamics, European Economic Review, Journal of Economic Theory, Theoretical Economics, Journal of Development Economics, Canadian Journal of Economics, Journal of Economic Literature, Macroeconomic Dynamics, Journal of Economic Behavior & Organization</p>
OTHER EXPERIENCE	<p>CTO/Founder/Director of Research/Software Engineer at technology firms (1995-2006)</p>