Jesse Perla

CONTACT INFORMATION	University of British Columbia Vancouver School of Economics 6000 Iona Drive Vancouver, BC, V6T 2E8	*Email:* jesse.perla@ubc.ca *Email:* jesseperla@gmail.com http://jesseperla.com https://github.com/jlperla/

CITIZENSHIP   American, Canadian

INTERESTS   Macroeconomics, Growth, Macro-Development, Macro-Finance, Computational

POSITIONS
Associate Professor, University of British Columbia
Visiting Professor, UBC Computer Science (Fall 2021)
Member, UBC Centre for Artificial Intelligence Decision-making and Action (CAIDA)
Faculty Affiliate, UBC Institute of Applied Mathematics

EDUCATION
Ph.D., Economics, May 2013
New York University, New York, NY, USA
Fields: Macroeconomics, Industrial Organization
Committee: 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)
    Journal of Political Economy, 2014

Catch-up and Fall-back through Innovation and Imitation (with Jess Benhabib and Christopher Tonetti)
    Journal of Economic Growth, 2014

Equilibrium Technology Diffusion, Trade, and Growth (with Christopher Tonetti and Michael Waugh)
    American Economic Review, 2021

Reconciling Models of Diffusion and Innovation: A Theory of the Productivity Distribution and Technology Frontier (with Jess Benhabib and Christopher Tonetti)
    Econometrica, 2021

Eigendecomposition of Tau Matrices and Applications (with Sven-Erik Ekstrom (Uppsala), Carlo Garoni (Rome), Adam Jozefiak (UBC))
    Linear Algebra and Its Applications, 2021

WORKING PAPERS

A Model of Product Awareness and Industry Life Cycles
    R&R (2nd Round) at Econometrica

Exploiting Symmetry in High-Dimensional Dynamic Programming (with Jesus Fernandez-Villaverde (Penn), Mahdi Kahou (UBC) and Arnav Sood (CMU)))
    NBER Working Paper

Doubling Down on Debt: Limited Liability as a Financial Friction (with Carolin Pflueger and Michal Szkup)
    NBER Working Paper

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)

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	SSHRC Insight Grant (2018-2021), $159,183
	Coordination frictions in macro-development: spatial equilibrium, technology traps, and industrial policy
	SSHRC Insight Development Grant (2018-2020), $68,834
	Debt Overhang and Over-Investment
	SSHRC Insight Development Grant (2015-2017), $43,000
	Why Doesn't Technology Diffuse through Migration?
	Hampton Grant (2014-2015), $22,000
	The Growth Dynamics of Innovation, Diffusion, and the Technology Frontier

BOOKS	Quantitative Economics with Julia (with Thomas J. Sargent and John Stachurski)
	Online textbook: https://julia.quantecon.org/
	QuantEcon DataScience (with Chase Coleman, Spencer Lyon, and Collaborators)
	Online textbook: https://datascience.quantecon.org/

SEMINARS, CONFERENCES, AND VISITING SCHOLAR	2021: AEA, Canadian Macro Study Group, Bank of Canada Fellowship Learning Exchange, Boston College, Queens, Georgetown, Boston University, UCL
	2020: HEC Paris
	2019: SED (Organizing Committee), NBER Summer Institute (discussant)
	2018: University of Pennsylvania, University of Toronto Rotman, Yale (Cowles Visiting Scholar), SED (Organizing Committee)
	2017: UCSD, Stanford, Philadelphia Fed, Minneapolis Fed (Visiting Scholar), WashU Mini-Conference on Macro-Development, Minnesota Macro Theory, St. Louis Fed
	2016: Simon Fraser University
	2015: UC Berkeley, University of Pennsylvania, University of Pennsylvania Wharton, Columbia University, AEA, Cowles Foundation (discussant), Nottingham University Conference on Firm and Technology Dynamics
	2014: San Francisco Federal Reserve, Cowles Foundation (discussant)
	2013: UCLA, UCSD, Minnesota

TEACHING EXPERIENCE	University of British Columbia, Vancouver, BC, Canada
	ECON622 - Computational Economics with Data Science Applications (graduate)
	Created course and moved to approval by the UBC Senate
	ECON323 - Quantitative Economic Modeling with Data Science Applications (undergraduate)
	Created course and moved to approval by the UBC Senate
	ECON302 - Intermediate Macroeconomics (undergraduate)
	ECON307 - Honors Intermediate Macroeconomics (undergraduate)
	ECON407 - Topics in Macroeconomics (undergraduate)
	ECON546 - Monetary Theory and Policy (graduate)

SERVICE	University of British Columbia, Vancouver, BC, Canada
	Computer Lab Committee
	Executive Committee
	Instructor Recruitment Committee
	Bank of Canada Governor's Challenge (Undergrad Team won 1st Place)
	Centre for Innovative Data in Economics Research (CIDER) Board Member
	Advisory Committee of the SciML (https://sciml.ai/) organization

STUDENT PLACEMENTS	University of British Columbia, Vancouver, BC, Canada
	Colin Caines, Committee Member (Placed at Federal Reserve Board)
	João Alfredo Galindo da Fonseca, Committee Member (Placed at Université de Montréal)
	Sev Hou, Advisor (Placed at Chinese University of Hong Kong, Shenzhen)

REFEREE	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

OTHER
EXPERIENCE

CTO/Founder/Director of Research/Software Engineer at technology firms (1995-2006)