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Finnish and Canadian Citizen

DEGREES

Stanford University, Stanford, CA, USA, Ph.D., <i>Economics</i>	2006
University of Helsinki, Helsinki, Finland, Lic.Soc.Sci., <i>Economics</i>	2000
University of Helsinki, Helsinki, Finland, M.Soc.Sci, <i>Economics</i>	1997

CURRENT EMPLOYMENT

Associate Professor (with tenure), Department of Economics, University of Waterloo, ON, Canada	7.2013-present
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PREVIOUS WORK EXPERIENCE

Visiting Researcher, Finnish Economic Research Institute (Etila), Helsinki	1.2020-present
Visiting Researcher, Bank of Finland, Helsinki	11.2019
Visiting Professor, Department of Economics, Aalto University, Helsinki	8.2013-6.2014
Assistant Professor, Department of Economics, University of Waterloo, ON, Canada	1.2006-6.2013
Lecturer, Department of Economics, University of Waterloo, ON, Canada	9.2005-12.2005

RESEARCH FUNDING AND GRANTS

Reigniting Growth through Innovation, Co-Applicant. <i>Business Finland</i> (PL: Tero Kuusi, ETLA).	8.2020-7.2023
A Novelty Reformation to Reignite Science (with Jay Bhattacharya). <i>Emergent Ventures, Mercatus Center</i> .	4.2020-3.2022
Using Machine Learning to Study Edge Innovation and Knowledge Flows (with Joel Blit), <i>Waterloo Artificial Intelligence Institute</i> , Waterloo.	4.2019-3.2020
Innovation in an Aging Society, Co-Investigator, <i>National Institutes of Health, National Institute on Aging</i> , USA (P01-AG039347, PI: Bruce Weinberg, Ohio State University and NBER).	9.2013-6.2019
Positive Externalities from Orphan Disease Research (with Jay Bhattacharya and Donna Ginther), <i>National Institute of Aging</i> , USA.	11.2017- 10.2019
Diffusion of Advances in Basic Research to Applied Medical Research and Invention, <i>Amazon Web Services</i> (cloud computing).	6.2013-6.2015

RESEARCH

Peer-reviewed scientific articles

- Packalen, M., & Bhattacharya, J. (2020). NIH funding and the pursuit of edge science. *Proceedings of the National Academy of Sciences*. ([pdf](#))
- Packalen, M., & Bhattacharya, J. (2019). Age and the trying out of new ideas. *Journal of Human Capital*, 13(2), 341-373. ([html](#))
- Packalen, M. (2019). Edge factors: scientific frontier positions of nations. *Scientometrics*, 118(3), 787-808. ([pdf](#))
- Packalen, M. & Bhattacharya, J. (2017). Neophilia ranking of scientific journals. *Scientometrics*. 110(1): 43-64. ([pdf](#))
- Packalen, M., & Sen, A. (2013). Static and dynamic merger effects: A market share based empirical analysis. *International Review of Law and Economics*, 36, 12-24. ([pdf](#))
- Bhattacharya, J., & Packalen, M. (2012). The other ex-ante moral hazard in health. *Journal of Health Economics*, 31(1), 135-146. ([pdf](#))
- Packalen, M., & Wirjanto, T. S. (2012). Inference about clustering and parametric assumptions in covariance matrix estimation. *Computational Statistics & Data Analysis*, 56(1), 1-14. ([pdf](#))
- Bhattacharya, J., & Packalen, M. (2011). Opportunities and benefits as determinants of the direction of scientific research. *Journal of Health Economics*, 30(4), 603-615. ([pdf](#))
- Packalen, M. (2010). Complements and potential competition. *International Journal of Industrial Organization*, 28(3), 244-253. ([pdf](#))

Non-refereed scientific articles

- Bhattacharya, J., & Packalen, M. (2020). Stagnation and scientific incentives. National Bureau of Economic Research Working Paper No. 26752. ([pdf](#))
- Bilt, J. & Packalen, M. (2019). A machine learning analysis of the geographic localization of knowledge flows. Manuscript. ([pdf](#))
- Packalen, M., & Bhattacharya, J. (2015). Cities and ideas. National Bureau of Economic Research Working Paper No. 20921. ([pdf](#))
- Packalen, M., & Bhattacharya, J. (2015). New ideas in invention. National Bureau of Economic Research Working Paper No. 20922. ([pdf](#))

Publications intended for the general public

- Bhattacharya, J., & Packalen, M. (2020, September 20). On the Futility of Contact Tracing. *Inference: International Review of Science*. www.inference-review.com ([html](#))
- Bhattacharya, J., & Packalen, M. (2020, July 3). Focusing our Covid-19 restrictions will save lives in poor countries. *Financial Post*. www.financialpost.com ([html](#))
- Packalen, M. (2020, Feb 15). Rich countries' broad coronavirus restrictions are a threat to children's lives in poorer countries (in Finnish). *Suomen Kuvalehti*. www.suomenkuvalehti.com ([html](#))
- Bhattacharya, J., & Packalen, M. (2020, May 16). Lives vs lives – the global cost of lockdown. *The Spectator*. www.spectator.co.uk ([html](#))
- Packalen, M. (2020, Feb 12). Navigating the innovation doldrums. *The Hill Times*. www.hilltimes.com ([html](#))
- Bhattacharya, J., & Packalen, M. (2018, November 1). Encouraging Edge Science through NIH Funding Practices. *Stanford Institute for Economic Policy Research (SIEPR)*. siepr.stanford.edu ([html](#))
- Bhattacharya, J., & Packalen, M. (2015, November 9). Exploration in science and ranking journals by novelty. *VoxEU*. www.voxeu.org ([html](#))

Theses

- Packalen, M. (2006). *Innovation-based analyses of pooling, bundling, and exclusion*. [Doctoral dissertation, Stanford University].
- Packalen, M. (2000). *On the learnability of rational expectations equilibria in three business cycle models*. [Lic.Soc.Sci Thesis, University of Helsinki].
- Packalen, M. (1997). *Adaptive learning of rational expectations: A neural network approach*. [M.Soc.Sci Thesis, University of Helsinki].

TEACHING

Research Supervision

Supervisor to 26 undergraduate Honors' research papers	2005-2019
PhD Main Advisor to Mahdiyeh Entezarkheir, Department of Economics (Placement: Huron University College at Western University).	2010
PhD Advisor to Mohamad Ghaziaskar, Department of Economics	2016
PhD Advisor to Wai Hong Choi, Department of Economics	2013

Undergraduate Teaching Experience

Machine Learning for Economists, Public Economics, Econometrics, Introduction to Microeconomics, Microeconomics, Mathematical Economics, Introduction to Econometrics

Graduate Teaching Experience

Economics of Innovation; Applied Microeconometrics

OTHER

Referee services

American Economic Review: Insights, Journal of Health Economics, Rand Journal of Economics, Journal of Human Capital, Scientometrics, Research Policy, Forum for Health Economics and Policy, Health Economics, Journal of Economic Dynamics and Control, Macroeconomic Dynamics, Economic Inquiry, B.E. Journal of Economic Analysis and Policy, Journal of Statistical Planning and Inference, Economics Bulletin, Geneva Papers on Risk and Insurance, Canadian Public Policy, Journal of Public Economic Theory.

Interviews with popular media

Hennen, A. (2020, Apr. 22). Look Beyond Citation Counts to Kickstart Scientific Innovation. James G. Martin Center for Academic Renewal ([html](#)).

Popular media mentions of research

La Nacion (2020, August 22, [html](#)), Japan Times (2020, May 29, [html](#)), The Economist (2020, Feb 27, [html](#)), The National Review (2020, Feb 25, [html](#)), Marginal Revolution (2020, Feb 19, [html](#)), The Atlantic (2019, Dec 17, [html](#)), Nature Index (2018, Feb 21, [html](#)), National Public Radio (2015, October 7, [html](#)), De Staandard (2015, Feb 26, [html](#)), Les Affaires (2015, Feb 19, [html](#)), Nature (2015, Feb 18, [html](#)), Washington Post (2015, Feb 18, [html](#)), CityLab (2011, Feb 18, [html](#)), The Atlantic (2015, Feb 9, [html](#)), Diverse Issues in Higher Education (2015, Feb 8, [html](#)), Boston Globe (2011, Oct 15, [html](#)), Marginal Revolution (2008, Mar 21, [html](#)), The Economist (2008, Mar 21, [html](#)).

Conferences and Invited Presentations

World Congress of the Econometric Society (online)	08.2020
Academy of Finland (Helsinki, Finland)	04.2020
Finnish Economics Association Meetings (Tampere, Finland)	02.2020
Research Institute of the Finnish Economy (Helsinki, Finland)	01.2020
Bank of Finland (Helsinki, Finland)	11.2019
Atlanta Science Policy Conference (Atlanta, GA)	10.2019
Asia-Pacific Innovation Conference (Beijing, China)	10.2019
Econometric Society North American Summer Meeting (Seattle, WA)	06.2019
International Industrial Organization Conference (Boston, MA)	04.2019
ASIS&T Workshop on Infometrics and Scientometrics Research (Vancouver, BC)	11.2018
NBER Innovation in an Aging Economy working group meeting (Chicago, IL)	01.2017
Valuing Health Research IFS/NBER (London, UK)	09.2017
University of Buffalo, State University of New York (Buffalo, NY)	04.2016
Valuing Health Research IFS/NBER Meeting (London, UK)	12.2015
Atlanta Conference on Science of Science Policy (Atlanta, GA)	09.2015
Econometric Society World Congress (Montreal, PQ)	08.2015
Eight Annual Conference on Innovation Economics (Chicago, US)	06.2015
Canadian Economics Association Meetings (Toronto, ON)	05.2015
International Conference on Industrial Organization (Boston, MA)	04.2015
Berkeley Innovation Seminar (Berkeley, CA)	03.2014
Aalto University (Helsinki, Finland)	12.2013

Annual Meeting of the Canadian Economics Association (Montreal, PQ)	06.2013
University of Guelph, Department of Economics (Guelph, ON) <i>Invited</i>	01.2012
5 th CSDA International Conference on Computational and Financial Ec. (London, UK)	12.2011
Canadian Econometrics Study Group (Toronto, ON)	10.2011
10 th Journées Louis-Andre Gerard-Varet Conference in Public Econ. (Marseille, France)	06.2011
Annual Meeting of the Canadian Economics Association (Ottawa, ON)	06.2011
Association for Public Economic Theory Conference (Bloomington, IN)	06.2011
Joint Meetings of the American Statistical Association	06.2011
NBER Summer Institute Productivity Meeting (Cambridge, MA)	07.2008
Annual Meeting of the Canadian Economics Association (Vancouver, BC)	06.2008
NBER Health Care Meeting (Cambridge, MA)	05.2008
Canadian Law and Economics Association Conference (Toronto, ON)	09.2007
Annual Meeting of the Canadian Economics Association (Halifax, NS)	05.2007
Annual Meeting of the American Law and Economics Association (Boston, MA)	05.2007
International Industrial Organization Conference (Savannah, GA)	04.2007
Canadian Law and Economics Association Conference (Toronto, ON)	09.2006
European Association for Research in Industrial Econ. Conf. (Amsterdam, Netherlands)	08.2006
European Economics Association Conference (Vienna, Austria)	08.2006
Annual Meeting of the Canadian Economics Association (Montreal, PQ)	06.2006