

JANGHO YANG

University of Waterloo, 200 University Avenue West, Waterloo, ON N2L 3G1
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CURRENT POSITION

Assistant Professor, University of Waterloo 2020 - Present
Department of Management Sciences, Faculty of Engineering

PREVIOUS ACADEMIC POSITION

Postdoctoral Research Fellow, University of Oxford 2018 - 2020
Oxford Martin Programme on Technological and Economic Change
Institute for New Economic Thinking at the Oxford Martin School

EDUCATION

Ph.D. in Economics 2015 - 2018
New School for Social Research, New York, NY
Dissertation Title: “Essays on the Statistical Equilibrium Model of Technical Change”
Dissertation Committee: Duncan Foley (Chair), Paulo dos Santos, Mark Setterfield, Deepankar Basu

Master’s in Economics 2013 - 2015
New School for Social Research, New York, NY

Bachelor in Western History 2005 - 2010
Seoul National University, Seoul, Korea

RESEARCH INTERESTS

Statistical Methods and Methodology; Firm-level Data Analysis; Information-Theoretic Economics; Technical Change and Economic Growth; Input-Output Network

PUBLICATIONS

1. Heinrich, Torsten, **Jangho Yang**, & Shuanping Dai (2021), “Levels of structural change: An analysis of China’s development push 1998-2014,” *Journal of Evolutionary Economics*.
2. Strauss, Ilan & **Jangho Yang** (2021), “Empirical Evidence on the Slowing in Developing Economy Corporate Investment Rates,” *International Review of Financial Analysis*.
3. **Yang, Jangho** & Adrián Carro (2020), “Two Tales of Complex System Analysis: MaxEnt and Agent-Based Modeling,” *European Physical Journal Special Topics*.
4. Scharfenaker, Ellis & **Jangho Yang**, (2020), “Maximum Entropy Economics,” *European Physical Journal Special Topics*.
5. dos Santos, Paulo & **Jangho Yang** (2020), “Capital Mobility, Quasi-rents, and the Competitive Self-organization of Distributions of Profitability,” *Advances in Complex Systems*.
6. **Yang, Jangho** & Luis Daniel Torres Gonzales (2019), “The Persistent Statistical Structure of the US Input-Output Coefficient Matrices: 1963-2007,” *Economic Systems Research*.
7. **Yang, Jangho** (2018), “A Quantal Response Statistical Equilibrium Model of Induced Technical Change in an Interactive Factor Market: Firm-Level Evidence in the EU Economies,” *Entropy*.
8. **Yang, Jangho** (2018), “Information Theoretic Approaches in Economics,” *The Journal of Economic Surveys*.

WORKING PAPERS

1. **Yang, Jangho** “Information-Theoretic Model of Induced Technological Change: Theory and Empirics,” *Resubmitted*
2. **Yang, Jangho**, Torsten Heinrich, Julian Winkler, François Lafond, Pantelis Koutroumpis, and J. Doyne Farmer, “Measuring Productivity Dispersion: a Parametric Approach Using the Lévy Alpha-Stable Distribution,” *Resubmitted*
3. Strauss, Ilan & **Jangho Yang**, “Corporate Secular Stagnation: Empirical Evidence on the Advanced Economy Investment Slowdown,” *Under Review*
4. **Yang, Jangho**, Luis Daniel Torres Gonzales, & Advait Rajagopal, and J. Doyne Farmer, “Economic development and the structure of input-output linkages.” *Under Review*
5. Bonwoo Koo, **Yang, Jangho** & Brian D. Wright, “On optimality of secrecy and scarcity of idea.” *Under Review*

WORK IN PROGRESS

- “Growth, Development, and Structural Change at the Firm Level: The Example of the PR China,” with Torsten Heinrich and Shuanping Dai
- “Heterogeneity and Persistence of Product Price Changes,” with Valentina Semenova, François Lafond, and Doyne Farmer
- “Analyzing Financial Statements using Information Theory: Going beyond Henri Theil”

AWARDS

- Edith Henry Johnson Memorial Award in Economics, Civil Affairs, And Education** 2018
awarded for the dissertation “Essays on the Statistical Equilibrium Model of Technical Change”
- Eugene Lang College Social Science Fellowship** 2017-2018
- Outstanding Graduate Student Teacher Award** 2016
- New School for Social Research Prize Fellowship** 2015-2018

RESEARCH GRANTS

- International Research Partnership Grant, University of Waterloo.** \$20,000 CAD. Mar 2022 - Feb 2023.
- Economic Security Project** with Ilan Strauss. \$25,000 USD. Mar 2022 - Feb 2023.
- Treasury Board Secretariat, Canada** with Brian Cozzarin. \$27,000 CAD. Mar 2022 - Feb 2023.
- Start-Up Grant, University of Waterloo.** \$45,000 CAD.

CONFERENCE PRESENTATION

- 2019** Nuffield College Postdoctoral Seminar, Oxford, UK
Workshop on Economic Science with Heterogeneous Interacting Agents, London, UK
International Input-Output Conference, Glasgow, UK
Eastern Economic Association Conference, New York, US
- 2018** European Association for Evolutionary Political Economy, Nice, France
- 2017** International Input-Output Conference, Seoul, Korea
IIPPE Annual Conference in Political Economy, Berlin, Germany

PROFESSIONAL SERVICE

Editorial Service

2019 - present

Guest Editor, European Physical Journal Special Topics

Co-editing the special issue on “Maximum Entropy Economics: Foundations and Applications,” with Ellis Scharfenaker.

Referee Service

Journal of Economic Growth, Cambridge Journal of Economics, Economic Systems Research, Economies, European Physical Journal Special Topics, Metroeconomica, Sustainability, Big Data and Cognitive Computing, Review of Social Economy, Structural Change and Economic Dynamics, Journal of Economic Interaction and Coordination