

# JANGHO YANG

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

j634yang@uwaterloo.ca

## CURRENT POSITION

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**Assistant Professor, University of Waterloo**

2020 - Present

*Department of Management Sciences, Faculty of Engineering*

## PREVIOUS ACADEMIC POSITION

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**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

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**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 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

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

## PUBLICATIONS

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1. Strauss, Ilan & **Jangho Yang** (2021), "Empirical Evidence on the Slowing in Developing Economy Corporate Investment Rates," forthcoming, *International Review of Financial Analysis*.
2. **Yang, Jangho** & Adrián Carro (2020), "Two Tales of Complex System Analysis: MaxEnt and Agent-Based Modeling," *European Physical Journal Special Topics*.
3. Scharfenaker, Ellis & **Jangho Yang**, (2020), "Maximum Entropy Economics," *European Physical Journal Special Topics*.
4. dos Santos, Paulo & **Jangho Yang** (2020), "Capital Mobility, Quasi-rents, and the Competitive Self-organization of Distributions of Profitability," *Advances in Complex Systems*.
5. **Yang, Jangho** & Luis Daniel Torres Gonzales (2019), "The Persistent Statistical Structure of the US Input-Output Coefficient Matrices: 1963-2007," *Economic Systems Research*.
6. **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*.
7. **Yang, Jangho** (2018), "Information Theoretic Approaches in Economics," *The Journal of Economic Surveys*.

## WORKING PAPERS

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1. Heinrich, Torsten, **Jangho Yang**, & Shuanping Dai, “Levels of structural change: An analysis of Chinas development push 1998-2014” *R&R*
2. **Yang, Jangho** “Information-Theoretic Model of Induced Technological Change: Theory and Empirics,” *Under Review*
3. **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,” *Under Review*
4. Strauss, Ilan & **Jangho Yang**, “Corporate Secular Stagnation: Empirical Evidence on the Advanced Economy Investment Slowdown,” *Under Review*
5. Heinrich, Torsten, **Jangho Yang**, & Shuanping Dai, “Growth, development, and structural change at the firm-level: The example of the PR China” *Under Review*
6. **Yang, Jangho**, Luis Daniel Torres Gonzales, & Advait Rajagopal, and J. Doyne Farmer, “Economic development and the structure of input-output linkages.” *In preparation*

## WORK IN PROGRESS

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- “Information-Constrained Behavior, Technological Frontier, and Equilibrium: Theory and Simulations”
- “Heterogeneity and Persistence of Product Price Changes,” with Valentina Semenova, François Lafond, and Doyne Farmer
- “Heterogeneity and Persistence: Frequency distributions of firm-level variables,” with Torstein Heinrich
- “Bayesian Meta-Analysis of Impact of Innovation”
- “Analyzing Financial Statements using Information Theory: Going beyond Henri Theil”

## AWARDS

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- 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

## CONFERENCE PRESENTATION

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- 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

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### 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*

## COMPUTER SKILLS

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<b>R, Mathematica</b>	Professional
<b>MATLAB, Python</b>	Intermediate

## LANGUAGES

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**English** (fluent); **Korean** (native); **Japanese** (reading); **French** (reading)