## MYONG-HUN CHANG

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#### **EDUCATION**

1988: Ph.D., Economics, The Johns Hopkins University 1987: M.A., Economics, The Johns Hopkins University

1984: B.S., Operations Research & Information Engineering, Cornell University

## PRINCIPAL ACADEMIC APPOINTMENTS

2004-2024:	Professor of Economics, College of Business, Cleveland State University
1989-2024:	Graduate Faculty, Cleveland State University
2018-2019:	Associate Dean, College of Liberal Arts and Social Sciences, Cleveland State
	University
2015-2018:	Director, Master of Arts in Economics Program, Cleveland State University
2004-2015:	Chairman, Department of Economics, Cleveland State University
1993-2004:	Associate Professor, Department of Economics, Cleveland State University
1988-1993:	Assistant Professor, Department of Economics, Cleveland State University

#### SHORTER-TERM ACADEMIC APPOINTMENTS

1-6/1999: Visiting Associate Professor, Owen Graduate School of Management, Vanderbilt University

1-6/1995: Visiting Associate Professor, Department of Economics, The Johns Hopkins

University

## **RESEARCH AREAS**

Agent-Based Modelling, Computational Economics, Epidemiology, Industrial Organization, Industry Dynamics, Microeconomic Theory, Modeling Social and Behavioral Dynamics, Organization Theory

#### RESEARCH GRANTS AND AWARDS

2020-2022: Faculty Scholarship Initiative Grant for Learning to Vaccinate: Endogenous Vaccination

and the Dynamics of Infectious Disease, Cleveland State University

2008-2011: Faculty Research Development Grant for A Computational Model of Industry

Evolution, Cleveland State University

2000-2002: National Science Foundation Research Grant (SES-0078752) for Computational

Modeling of Multi-Level/Multi-Unit Organizations, Co-Principal Investigator (joint with

Joseph E. Harrington, Jr.)

1989-1990: Research and Creative Activities Grant for Exclusive Dealing Contracts and Market

Foreclosure, Cleveland State University

6-8/1989: Research Challenge Grant, Cleveland State University

#### **PUBLICATIONS**

Book

2015 A Computational Model of Industry Dynamics. London: Routledge, 2015.

#### Articles

"Theory-Building in Organizational Science with Agent-Based Computational Models: Past, Present, and Future" in: Friederike Wall, Shu-Heng Chen, and Stephan Leitner, eds., Oxford Handbook of Agent-Based Computational Management Science, New York: Oxford University Press, forthcoming.

<a href="https://doi.org/10.1093/oxfordhb/9780197668122.013.9">https://doi.org/10.1093/oxfordhb/9780197668122.013.9</a>.

2023 "Spatial Disparities in Vaccination and the Risk of Infection in a Multi-Region Agent-Based Model of Epidemic Dynamics" (with Troy Tassier), *Journal of Artificial Societies and Social Simulation* 26 (3) 3 <a href="http://jasss.soc.surrey.ac.uk/26/3/3.html">http://jasss.soc.surrey.ac.uk/26/3/3.html</a>>. doi: 10.18564/jasss.5095.

2023 "It's Worth a Shot: Urban Density, Endogenous Vaccination Decisions, and Dynamics of Infectious Disease" (with Andrew Souther and Troy Tassier), *Journal of Economic Interaction and Coordination*, 18 (2023), 163-189.

2021 "Spatially Heterogeneous Vaccine Coverage and Externalities in a Computational Model of Epidemics" (with Troy Tassier), *Computational Economics*, 58 (2021), 27-55.

2020 "A Dynamic Computational Model of Social Stigma" (with Joseph E. Harrington, Jr.), Journal of Artificial Societies and Social Simulation, 23 (2), 1 <a href="https://www.jasss.org/23/2/1.html">https://www.jasss.org/23/2/1.html</a>>. doi: 10.18564/jasss.4225.

"Computational Industrial Economics: A Generative Approach to Dynamic Analysis in Industrial Organization," in: Shu-Heng Chen, Mak Kaboudan, and Ye-Rong Du, eds., Oxford Handbook of Computational Economics and Finance, New York: Oxford University Press, 2018, 594-634.

2015 "Competition Policy," in: David J. Teece and Mie Augier, eds., *The Palgrave Encyclopedia of Strategic Management*, London: Palgrave Macmillan, 2015.

2015 "When Can We Expect a Corporate Leniency Program to Result in Fewer Cartels?" (with Joseph E. Harrington, Jr.), Journal of Law and Economics, 58 (2015), 417-449. 2013 "Individual Learning and Social Learning: Endogenous Division of Cognitive Labor in a Population of Co-evolving Problem-Solvers," (with Joseph E. Harrington, Ir.), Administrative Sciences, 3 (2013), 53-75 [Special issue on Computational Organization Theory 2011 "Emergent Social Learning Networks in Organizations with Heterogeneous Agents," Advances in Complex Systems, 14 (2011), 169-199 2011 "Entry, Exit, and the Endogenous Market Structure in Technologically Turbulent Industries," Eastern Economic Journal, 37 (2011), 51-84 [Symposium Issue on Agent-Based Computational Economics 2011 "Agent-Based Modeling and Computational Experiments in Industrial Organization: Growing Firms and Industries in silico," Eastern Economic Journal, 37 (2011), 28-34 [Symposium Issue on Agent-Based Computational Economics] 2009 "Modeling the Birth and Death of Cartels with an Application to Evaluating Competition Policy," (with Joseph E. Harrington, Jr.), Journal of the European Economic Association, 7 (2009), 1400-1435 2009 "Industry Dynamics with Knowledge-Based Competition: A Computational Study of Entry and Exit Patterns," Journal of Economic Interaction and Coordination, 4 (2009), 73-1142007 "Innovators, Imitators, and the Evolving Architecture of Problem-Solving Networks," (with Joseph E. Harrington, Jr.), Organization Science, 18 (2007), 648-666 2007 "Decentralization," in: Stewart Clegg and James R. Bailey, editors, International Encyclopedia of Organization Studies, Volume 1, SAGE Publications, Thousand Oaks, CA, 2007, 359-362 2006 "Agent-Based Models of Organizations," (with Joseph E. Harrington, Jr.), in: Leigh Tesfatsion and Kenneth L. Judd, eds., Handbook of Computational Economics II: Agent-Based Computational Economics, Elsevier, 2006, 1273-1337 2005 "Discovery and Diffusion of Knowledge in an Endogenous Social Network," (with Joseph E. Harrington, Jr.), American Journal of Sociology, 110 (2005), 937-976

2005 "Co-Evolution of Firms and Consumers and the Implications for Market Dominance," (with Joseph E. Harrington, Jr.), Journal of Economic Dynamics and Control, 29 (2005), 245-276 2004 "Organization of Innovation in a Multi-Unit Firm: Coordinating Adaptive Search on Multiple Rugged Landscapes," (with Joseph E. Harrington, Jr.), in: William Barnett, Christophe Deissenberg, and Gustav Feichtinger, editors, Economic Complexity: Non-linear Dynamics, Multi-agents Economies, and Learning, International Symposia on Economic Theory and Econometrics, Vol. 14, 2004, Elsevier, Amsterdam, 189-214 2003 "Multi-Market Competition, Consumer Search, and the Organizational Structure of Multi-Unit Firms," (with Joseph E. Harrington, Jr.), Management Science, 49 (2003), 541-5522002 "Decentralized Business Strategies in a Multi-Unit Firm," (with Joseph E. Harrington, Jr.), Annals of Operations Research, 109 (2002), 77-98 2000 "Centralization vs. Decentralization in a Multi-Unit Organization: Computational Model of a Retail Chain as a Multi-Agent Adaptive System," (with Joseph E. Harrington, Jr.), Management Science, 46 (2000), 1427-1440 1998 "Product Switching Cost and Strategic Flexibility," Journal of Economics and Management Strategy, 7 (1998), 461-488 1997 "Organizational Structure and Firm Innovation in a Retail Chain," (with Joseph E. Harrington, Jr.), Computational and Mathematical Organization Theory, 3 (1997), 267-288 1996 "The Interactive Effect of Product Differentiation and Cost Variability on Profit," (with Joseph E. Harrington, Jr.), Journal of Economics and Management Strategy, 5 (1996), 175-193 1993 "Flexible Manufacturing, Uncertain Consumer Tastes, and Strategic Entry Deterrence," Journal of Industrial Economics, XLI (1993), 77-90 1992 "Inter-temporal Product Choice and Its Effects on Collusive Firm Behavior," International Economic Review, 33 (1992), 773-793 1992 "Exclusive Dealing Contracts in a Successive Duopoly with Side Payments," Southern Economic Journal, 59 (1992), 180-193 1991 "The Effects of Product Differentiation on Collusive Pricing," International Journal of Industrial Organization, 9 (1991), 453-469

1988 "The Effects of Irreversible Investment in Durable Capacity on the Incentive for

Horizontal Merger," (with Joseph E. Harrington, Jr.), Southern Economic Journal, 55

(1988), 443-453

Book reviews

2013 Review of Game Theory: A Nontechnical Introduction to the Analysis of Strategy by Roger

A. McCain, Eastern Economic Journal, 39 (2013), 267-269

## **PROFESSIONAL ACTIVITIES**

#### Editorial Positions

2016-Present: Member, Advisory Board, Preprints (MDPI)

2015-Present: Member, Editorial Board, Administrative Sciences (MDPI)

2012-2014: Guest Editor, Special Issue on "Computational Organization Theory,"

Administrative Sciences

# Advisory and Review Committees

2021:	Member, Scientific	Program Commit	tee, Conference on	a Complex Systems	(CCS 2021),
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Complex Systems Society: Lyon, France

2020: Member, Scientific Program Committee, Conference on Complex Systems (CCS 2020),

Complex Systems Society: On-line

2020: Member, Scientific Program Committee, Tenth International Conference on Complex

Systems (ICCS 2020): Nashua, NH, USA

2019-2020: Member, Evaluation Committee for Administrative Sciences, 2019 Administrative

Sciences Young Investigator Award

2018: Member, Scientific Program Committee, Fifth International Conference on Behavioral,

Economic, Socio-Cultural Computing (BESC 2018): Kaohsiung, Taiwan

2018: Member, Scientific Program Committee, Conference on Complex Systems (CCS 2018),

Complex Systems Society: Thessaloniki, Greece

2018: Member, Scientific Program Committee, Ninth International Conference on Complex

Systems (ICCS 2018): Cambridge, MA, USA

2017: Member, Scientific Program Committee, Fourth International Conference on Behavioral,

Economic, Socio-Cultural Computing (BESC 2017): Krakow, Poland

2017: Member, Scientific Program Committee, Conference on Complex Systems (CCS 2017),

Complex Systems Society: Cancun, Mexico

2016: Member, Scientific Program Committee, Third International Conference on Behavioral,

Economic, Socio-Cultural Computing (BESC 2016): Durham, North Carolina

2015: Member, Scientific Program Committee, Second International Conference on Behavioral,

Economic, Socio-Cultural Computing (BESC 2015): Nanjing, China

2007: Member, Davidson Fellows Review Committee, Davidson Institute

2007: Member, Grant Review Panel, Human and Social Dynamics Program, National

Science Foundation

2006: Member, Selection Committee for Doctoral Student Research Paper Competition,

North American Association for Computational Social and Organizational Science

(NAACSOS)

2006: Member, Davidson Fellows Review Committee, Davidson Institute

2006: Member, International Scientific Committee, Third Workshop of Society for

Computational Economics on Complex Behavior in Economics: Modeling, Computing,

and Mastering Complexity: Aix-en-Provence, France

2004: Member, Grant Review Panel, Human and Social Dynamics Program, National

Science Foundation

2003: Member, International Scientific Committee, Second Workshop of Society for

Computational Economics on Complex Behavior in Economics: Modeling, Computing,

and Mastering Complexity: Aix-en-Provence, France

## Referee/Reviewer Activities

Journals:

Administrative Sciences, American Economic Review, American Journal of Sociology, Annals of Operations Research, Bulletin of Economic Research, Canadian Journal of Economics, Central European Journal of Operations Research, Computational Economics, Computational Management Science, Computational and Mathematical Organization Theory, Computers in Biology and Medicine, Eastern Economic Journal, Ecology and Society, Economic Journal, Economic Inquiry, Economic Theory, Economics Letters, European Economic Review, Economics (e-journal), International Economic Review, International Journal of Industrial Organization, Journal of Artificial Societies and Social Simulation, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Economic Interaction and Coordination, Journal of Economics and Business, Journal of Economics and Management Strategy, Journal of Economic Theory, Journal of Industrial Economics, Management Science, Managerial and Decision Economics, Marketing Science, Metroeconomica, New Mathematics and Natural Computation, Organization Science, Quarterly Journal of Business and Economics, RAND Journal of Economics, Review of Economic Studies, Review of Industrial Organization, Scandinavian Journal of Economics, Southern Economic Journal, Strategy Science, Zeitschrift Für NationalÖkonomie

Publishers:

Addison Wesley Longman, Cambridge University Press, Harper Collins Publishers, John Wiley & Sons, Inc., Johns Hopkins University Press, MIT Press, Prentice Hall, Routledge, Stanford University Press, W. W. Norton & Company

Foundations: Israel S

Israel Science Foundation (Israel) National Science Foundation (USA)