YAROSLAV ROSOKHA

Department of Economics
Krannert School of Management
Purdue University

yrosokha@purdue.edu
(765)-496-3668
https://web.ics.purdue.edu/~yrosokha

EDUCATION

Ph.D.	Economics, University of Texas at Austin **Dissertation:** *Three Experiments on Decision-making Under Uncertainty in Dynamic Environments* **Committee Chair:** Dale O. Stahl	May 2013
M.S.	Economics, University of Texas at Austin	May 2009
M.S.	Applied Mathematics, University of Houston	May 2007
B.S.	Mathematics, Economics, University of Houston	May 2006

EMPLOYMENT

Associate Professor of Economics, Purdue University	Aug 2021 – present
Assistant Professor of Economics, Purdue University	Jan 2017 – Aug 2021
Assistant Professor of Operations & Economics, Purdue University	Aug 2013 – Dec 2016
Consultant, Magee and Magee	Aug 2012 – Aug 2013

RESEARCH INTERESTS

Behavioral Economics, Experimental Economics, Game Theory, Computational Economics, Agent-based Models, Behavioral Operations Management

PUBLICATIONS

"Learning Under Uncertainty with Multiple Priors – Experimental Evidence" (with James Bland) ***Journal of Risk and Uncertainty*** (2021), 62, pp. 157-176.

"Motivating Innovation: The Effect of Loss Aversion on the Willingness to Persist" (with Kenneth Younge), ***Review of Economics and Statistics*** (2020), 102(3), pp. 569-582.

"The Evolution of Cooperation: The Role of Costly Strategy Adjustments" (with Julian Romero) ***American Economic Journal: Microeconomics*** (2019), 11(1), pp. 299-328.

"Constructing Strategies in the Indefinitely Repeated Prisoner's Dilemma" (with Julian Romero) ***European Economic Review*** (2018), 104, pp. 185-219.

"Impact of Compound and Reduced Specifications on Valuation of Projects with Multiple Risks" (with Saurabh Bansal), ***Decision Analysis*** (2018), 15(1), pp. 27-46.

"Humans are Not Machines: Impact of Queueing Design on Service Time" (with Masha Shunko and Julie Niederhoff), ***Management Science*** (2018), 64(1), pp. 453-473.

"Learning Under Compound Risk vs. Learning Under Ambiguity – An Experiment" (with Othon Moreno), ***Journal of Risk and Uncertainty*** (2016), 53(2-3), pp. 137-162.

WORKING PAPERS

"Mixed Strategies in the Indefinitely Repeated Prisoner's Dilemma" (with Julian Romero), *R&R at* ***Econometrica***

"Cooperation in Queueing Systems" (with Chen Wei) *R&R at* ***Management Science***

"Public Leaderboard Feedback in Sampling Competition: An Experimental Investigation" (with Brian Roberson and Stanton Hudja) *R&R at* ***Review of Economics and Statistics***

"Using Machine Learning for Modeling Human Behavior and Analyzing Friction in Generalized Second Price Auctions" (with Karthik Kannan and Vandith Pamuru) *R&R at* ***Information Systems Research***

"Beliefs, learning, and personality in the indefinitely repeated prisoner's dilemma" (with David Gill)

"A Model of Adaptive Reinforcement Learning" (with Julian Romero)

"Uncertainty about Informed Trading in Dealer Markets – An Experiment" (with Chi Sheh)

WORK IN PROGRESS

"Dynamics of beliefs, power, and inequality in within- and between-group cooperation and conflict" (with Sergey Gavrilets)

"Fairness in Machine Learning – An Experimental Analysis" (with Matthew Hashim, Karthik Kannan, Warut Khern-am-nuai, and Hajime Shimao

OTHER PUBLICATIONS

Rosokha, Yaroslav, Sergey V. Lindeman, Sergiy V. Rosokha, and Jay K. Kochi. "Halide recognition through diagnostic "anion–π" interactions: molecular complexes of Cl−, Br−, and I− with olefinic and aromatic π receptors." *Angewandte Chemie International Edition* 43, no. 35 (2004): 4650-4652.

RESEARCH GRANTS

"Dynamics of beliefs, power, and inequality in within- and between-group cooperation and conflict" (with Sergey Gavrilets), *The Department of Defense DEPSCoR Award*, 2022 – 2024

"Fairness in Machine Learning – An Experimental Analysis" (with Matthew Hashim, Karthik Kannan, Warut Khern-am-nuai, and Hajime Shimao), *The Blake Family Fund for Ethics, Leadership and Governance*, 2021 – 2022

"Collusion, beliefs, and personal characteristics" (with David Gill), *The Blake Family Fund for Ethics, Leadership and Governance*, 2018 – 2019

"Learning Under Ambiguity – An Experiment" (with Othon Moreno), *Russell Sage Foundation, Small Grants Program in Behavioral Economics*, 2012 – 2013

PRESENTATIONS

2021: POMS Annual Conference (*virtual*); 7th Annual UEA Workshop on Behavioral Game Theory (*virtual*); INFORMS Annual Meeting (*scheduled*);

2020: Appalachian State University (*virtual*); INFORMS Annual Meeting (*virtual*); Florida State University (*virtual*); Economic Science Association Virtual World Meetings; Behavioral Operations Management Virtual Conference; NYC Computational Economics and Complexity Workshop at Eastern Economic Association Annual Conference, Boston; IU-Purdue Conference on Experimental and Behavioral Economics, Bloomington;

2019: Southern Economic Association Annual Meetings, Fort Lauderdale; Economic Science Association North American Conference, Los Angeles; Economic Science Association World Meetings, Vancouver; Workshop on Computational and Experimental Economics, Barcelona; Conference in Honor of Dale Stahl, UT Austin; IU-Purdue Conference on Experimental and Behavioral Economics, West Lafayette;

2018: Southern Economic Association Annual Meetings, Washington DC; Economic Science Association World Meetings, Berlin; The Society for Computational Economics 24th

International Conference, Milan; Workshop on Experimental Economics and Entrepreneurship, Copenhagen; Chapman University;

2017: IU-Purdue Conference on Experimental and Behavioral Economics, Bloomington; INFORMS Annual Meeting, Houston; Economic Science Association North American Conference, Richmond; University of Michigan; Society for the Advancement of Economic Theory Annual Conference, Faro; Indiana University;

2016: Economic Science Association North American Conference, Tucson; INFORMS Annual Meeting, Nashville; École Polytechnique Fédérale de Lausanne (EPFL);

2015: Economic Science Association North American Conference, Dallas; The Pennsylvania State University; Economic Science Association World Meetings, Sydney;

2014: INFORMS Annual Meeting, San Francisco; POMS Annual Conference, Atlanta; The University of Texas at Dallas

FELLOWSHIPS, HONORS, AND AWARDS

Distinguished Teacher: Quantitative Economics with Python (2021), Computing for Analytics (2019), Game Theory (2019, 2018), Agent-based Computational Economics (2019, 2018, 2017), Operations Management (2016), Computational Economics (2015)

Outstanding Teacher: Computational Economics (2020), Game Theory (2017, 2020), Behavioral Economics (2016, 2015), Operations Management (2016, 2015), Computing for Analytics (2016)

Krannert Faculty Fellow Award	2020 – 2021
Purdue University Teaching Academy Award for Exceptional Teaching and Instructional Support	2021
Purdue Research Foundation Award	Summer 2020
PRF International Travel Grant	2015, 2018, 2019
Professional Development Award	2012
Presidential Graduate Fellowship Award	2006 – 2007
Summa Cum Laude	2006
University Honors and Honors in Major	2006
Provost's Undergraduate Research Scholarship	2006
Academic Excellence Scholarship	2003 – 2006

PROFESSIONAL SERVICE AND ACTIVITIES

Member: American Economic Association (AEA); INFORMS; Economics Sciences Association (ESA); Society for Computational Economics (SCE); Southern Economic Association (SEA).

Referee: *Management Science*; *Journal of Public Economics*; *Journal of Economic Behavior & Organization*; *Economic Inquiry*; *Manufacturing & Service Operations Management*; *Production and Operations Management*; *Transportation Research Part F: Traffic Psychology and Behaviour; European Journal of Operations Research; Journal of Behavioral and Experimental Economics; Games and Economic Behavior; International Economic Review; Economic Theory; Scandinavian Journal of Economics; Operations Research*

Reviewer: National Science Foundation

Conferences: North American ESA Session Organizing Committee (2020)

TEACHING

Quantitative Economics with Python (Online MS Econ.)	2021
Game Theory (Undergrad., Executive MBA)	2017 – 2021
Agent-based Computational Economics (Ph.D.)	2017 – 2020
Computing for Analytics (MS BAIM, Weekend MBA)	2016 – 2019
Computational Economics (Ph.D., Undergrad.)	2015, 2020, 2021
Behavioral Economics	2015 – 2016
Operations Management	2014 – 2016
Introduction to Microeconomics	2012
Introduction to Economics	2012

Workshops / Short Courses / Guest Lectures:

Agent-based Modeling for Economics (part of *Computational Methods for Economists* summer course at EPFL, Lausanne, Switzerland)
Reinforcement and Evolutionary Learning Models (part of *Computational Methods for Economists* summer course at EPFL, Lausanne, Switzerland)
Learning in Economics Experiments (part of *IFREE Undergraduate Workshop* at Purdue, West Lafayette, Indiana)

STUDENT ADVISING

Dissertation Chair:

Peter Wagner (co-chair, in progress)
Chen Wei (co-chair, 2021, Post-doc at Washington University of St. Louis)

Dissertation Committee Member:

Richard Mickelsen (in progress)
Mouli Modak (in progress)
Xinxin Lyu (in progress)
William Brown (2021, Research Scientist at Afiniti)
Vandith Pamuru (2020, Asst. Prof at Indian School of Business)
Stanton Hudja (2020, Post-doc at Baylor)
Heejong Lim (2016, Asst. Prof at University of Seoul)
Huanren Zhang (2015, Post-doc at NYU-Abu Dhabi)

Field Examiner:

Chen Wei, Pengcheng Yang, Peter Wagner

UNIVERSITY & DEPARTMENT SERVICE

Faculty advisor, Ukrainian Student Association (2021-present)
Faculty advisor, Purdue Economics Club (2019-present)
Economics undergraduate program review committee (2019-present)
Economics department faculty search committee (2019-2021)
Faculty representative, commencement (Dec 2015, Dec 2019)
Economics department seminar organizer (2013-present)

Updated on 08/21/2021