YAROSLAV ROSOKHA

Department of Economics
Daniels School of Business
Purdue University

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

EDUCATION

Ph.D.   Economics, University of Texas at Austin   May 2013
Dissertation: *Three Experiments on Decision-making Under Uncertainty in Dynamic Environments*
Committee Chair: Dale O. Stahl

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
with University Honors and Honors in Major

EMPLOYMENT

Associate Professor of Economics *(with tenure)*, 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
Economic Damages Analysis

RESEARCH INTERESTS

Game Theory, Experimental and Behavioral Economics, Computational Economics, Machine Learning, Behavioral Operations Management, Innovation, Political Economy

PUBLICATIONS

15.   "Public Leaderboard Feedback in Sampling Competition: An Experimental Investigation" (with Brian Roberson and Stanton Hudja) *Review of Economics and Statistics* (2025), 107(2), pp. 555-569

14.   "Cooperation under the Shadow of Political Inequality" (with Xinxin Lyu, Denis Tverskoi, and Sergey Gavrilets), *Journal of Economic Dynamics and Control* (2025), 172, 104988

13.   "Cooperation in Queueing Systems" (with Chen Wei), *Management Science* (2024), 70(11), pp. 7345-8215

12.   "On the Emergence of International Currency: An Experimental Approach" (with Marcos Cardozo and Cathy Zhang), *Journal of Economic Behavior and Organization* (2024), 228, 106744

11.   "Beliefs, learning, and personality in the indefinitely repeated prisoner's dilemma" (with David Gill), *American Economic Journal: Microeconomics* (2024), 16(3), pp. 259-283.

10.   "Evolution of cooperation in the indefinitely repeated collective action with a contest for power" (with Xinxin Lyu, Denis Tverskoi, and Sergey Gavrilets) *Economic Theory* (2024).

9.   "Mixed Strategies in the Indefinitely Repeated Prisoner's Dilemma" (with Julian Romero), *Econometrica* (2023), 91(6), pp. 2295-2331.

Updated on 01/21/2026

8. "[Analyzing Frictions in Generalized Second-Price Auction Markets](#)" (with Karthik Kannan and Vandith Pamuru) *Information Systems Research* (2023), 34(4), pp.1437-1454.

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

6. "[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.

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

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

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

2. "[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.

1. "[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

"[Identifying Level-k Reasoning in Repeated Games: Strategies, Beliefs, and Cognitive Ability](#)" (with David Gill)

"[Innovation and Information Free-Riding: An Experimental Investigation of Collective Experimentation](#)" (with Tim Cason and Stanton Hudja)

"[The Political Hare and the Stag Hunt](#)" (with Xinxin Lyu, Denis Tverskoi, and Sergey Gavrilets)

"[Rounding the (Non)Bayesian Curve: Unraveling the Effects of Rounding Errors in Belief Updating](#)" (with James Bland)

"[Behavioral Nudges as an Incentives Problem](#)" (with Steven Y. Wu)

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

WORK IN PROGRESS

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

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

"Currency Competition in Integrated Economies" (with Marcos Cardozo, Talha Cakir, and Cathy Zhang)

"Managing Innovation Adoption in Organizations" (with Tim Cason and Stanton Hudja)

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

"Behavioral Economics in Food and Environmental Policy: A Principal-Agent, Machine Learning, and Experimental Economics Approach" (with Steven Y. Wu) USDA/NIFA, AFRI Foundational and Applied Science Program, Markets and Trade, **$638,852**, 2023 – 2026

"Dynamics of beliefs, power, and inequality in within- and between-group cooperation and conflict" (with Sergey Gavrilets), *The Department of Defense DEPSCoR Award*, **$600,000**, 2021 – 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*, **$17,000**, 2021 – 2022

"Collusion, beliefs, and personal characteristics" (with David Gill), *The Blake Family Fund for Ethics, Leadership and Governance*, **$10,000**, 2018 – 2019

"Learning Under Ambiguity – An Experiment" (with Othon Moreno), *Russell Sage Foundation, Small Grants Program in Behavioral Economics*, **$4,241**, 2012 – 2013

FELLOWSHIPS, HONORS, AND AWARDS

Distinguished or Outstanding Teacher:

Quantitative Economics with Python (2021)
Computational Economics (2020 Undergrad., 2015 Ph.D.)
Computing for Analytics (2019, 2016)
Game Theory (2020, 2019, 2018, 2017)
Agent-based Computational Economics (2019, 2018, 2017)
Behavioral Economics (2016, 2015)
Operations Management (2016, 2015)

Daniels School of Business Recognition Award for Research	Spring 2024
Krannert Faculty Fellow Award for Research	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, University Honors and Honors in Major	2006
Provost's Undergraduate Research Scholarship	2006
Academic Excellence Scholarship	2003 – 2006

PROFESSIONAL SERVICE AND ACTIVITIES

Editorial Service:

Advisory Editor at *Games and Economic Behavior* (2025 – present)

Referee/Reviewer:

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, Journal of Risk and Uncertainty, The Review of Financial Studies, The Economic Journal, Experimental Economics, Journal of Economic Dynamics and Control, Journal of Economic Theory, Quantitative Economics, Review of Economic Studies, National Science Foundation, Econometrica*

Conferences and Workshops:

Co-organizer of BSE Summer Forum Workshop on Computational and Experimental Economics (2023, 2024, 2025);

Co-chair/organizer of Session on Computational and Experimental Economics at ASSA Meetings (2024);

Co-organizer of Purdue Workshop on Computational Tools for Experimental Economists (2024);

Co-organizer of BESLAB Computational and Experimental Economics Summer School (2022, 2023, 2024);

North American ESA Session Organizing Committee (2020)

Member: American Economic Association; INFORMS; Economics Sciences Association; Society for Computational Economics; Southern Economic Association.

PRESENTATIONS

2025: NYU CESS Mini-Conference: Learning and Bounded Rationality, New York; Southern Economic Association Annual Meeting; INFORMS Annual Meeting; Economic Science Association North American Conference, Tucson; Texas A&M University; IU-Purdue Conference on Experimental and Behavioral Economics, Bloomington; University of Wyoming; Florida State University;

2024: Georgia State University; Economic Science Association North American Conference, Columbus; BSE Summer Forum Workshop on Computational and Experimental Economics, Barcelona; Vernon Smith Experimental Economics Laboratory Grand Re-Opening Conference, West Lafayette; American Economic Association Annual Meeting, San Antonio;

2023: Economic Science Association North American Conference, Charlotte; Appalachian State University; Society for the Advancement of Economic Theory Annual Conference, Paris; IU-Purdue Conference on Experimental and Behavioral Economics, West Lafayette; Workshop on Computational and Experimental Economics in Memory of Jasmina Arifovic, Vancouver;

2022: Economic Science Association North American Conference, Santa Barbara; Ohio State University; University of California, Davis (*virtual*); University of Pittsburg (*virtual*); University of Maryland; University of Alabama;

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

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

2013: Economic Science Association North American Conference, Santa Cruz;

2012: Economic Science Association International Conference, New York; Economic Science Association North American Conference, Tucson; INFORMS Annual Meeting, Phoenix;

TEACHING

Computational Economics (Undergrad., 2020 – present)
Advanced Quantitative Economics with Python (Online MS Econ., 2022 – present)
Quantitative Economics with Python (Online MS Econ., 2021 – present)
Agent-based Computational Economics (Ph.D., 2015 – present)
Game Theory (Undergrad., Executive MBA, 2017 – 2022)
Computing for Analytics (MS BAIM, Weekend MBA, 2016 – 2019)
Behavioral Economics (Undergrad., 2015 – 2016)
Operations Management (Undergrad., 2014 – 2016)
Introduction to Microeconomics (Undergrad., 2012)
Introduction to Economics (Undergrad., 2012)

Workshops / Short Courses / Guest Lectures:

Reinforcement and Evolutionary Learning Models in Experimental Economics (part of the *2024 Workshop on Learning, Computational, and Bayesian Methods in Experimental Economics* at Daniels School of Business, West Lafayette, IN)

Reinforcement Learning (part of *2022, 2024 Summer School on Computational and Experimental Economics* at BESLAB, Barcelona, Spain)

Agent-based Modeling for Economics (part of *2019 Computational Methods for Economists* summer course at EPFL, Lausanne, Switzerland)

Reinforcement and Evolutionary Learning Models (part of *2019 Computational Methods for Economists* summer course at EPFL, Lausanne, Switzerland)

Learning in Economics Experiments (part of *2018 IFREE Undergraduate Workshop* at Purdue, West Lafayette, Indiana)

STUDENT ADVISING

Dissertation Chair: Xinxin Lyu (2024, The World Bank), Peter Wagner (2022, RWI Synthetics), Chen Wei (2021, Post-doc at Washington University of St. Louis)

Dissertation Committee Member: Yuting Chen (in progress), Talha Cakir (in progress), Jieqiong Jin (2024, Wyze Labs), Alexander Marchal (2024, Visiting Asst. Prof. Lehigh University), Abhishek Kumar Umrawal (2023, UIUC), Maximilian Hofer (external committee member, 2022, Bain & Company), Richard Mickelsen (2022, Air Force), Mouli Modak (2022, Post-doc at Chapman University), 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)

Post-doc Supervisor: Mouli Modak (2024-2025), Marcos Cardozo (2022-2024, Asst. Prof at Universidad Catolica del Uruguay)

Field Examiner: Shabnam Rahimfallah, Talha Cakir, Chen Wei, Pengcheng Yang, Peter Wagner

UNIVERSITY & DEPARTMENT SERVICE

Daniels School of Business curriculum committee (2022-present)
Daniels School of Business curriculum AI Task Force (2024)
Board of Directors, Center for Behavioral Economics, Experiments, and Public Policy, Purdue University (2022-present)
Business Analytics Ph.D. Program Committee (2022)
Faculty Advisor to Ukrainian Student Association (2021-present)
Economics Undergraduate Program Committee (2019-2025)
Economics Department Faculty Search Committee (2019-2023)
Faculty Advisor to Purdue Economics Club (2019-2022)
Faculty representative to commencement (Dec 2015, Dec 2019)
Economics department seminar organizer (2013-2021, 2024-present)

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