

Emir Malikov

Lee Professor of Economics

LEE BUSINESS SCHOOL, UNIVERSITY OF NEVADA, LAS VEGAS
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APPOINTMENTS

Lee Professor of Economics (*endowed*), Lee Business School, July 2019 – present
Associate Professor, University of Nevada, Las Vegas, July 2022 – present
Graduate Director in Economics, University of Nevada, Las Vegas, July 2023 – present
Assistant Professor, University of Nevada, Las Vegas, July 2019 – June 2022
Affiliate Professor, Auburn University, July 2019 – June 2022
Assistant Professor, Auburn University, June 2016 – June 2019
Assistant Professor, St. Lawrence University, August 2014 – May 2016

EDUCATION

Ph.D. Economics, State University of New York at Binghamton, 2014
M.A. Economics, State University of New York at Binghamton, 2011
B.Sc. Economics, Azerbaijan State Oil & Industry University, 2009

RESEARCH INTERESTS

Productivity & Production Analysis, Structural Applied Microeconomics, Semi/Nonparametric Econometrics, Spatial Data Methods, Quantile and Modal Regressions, Climate Economics

EDITORIAL APPOINTMENTS

Associate Editor (handling papers), *Journal of Productivity Analysis*, 2023 – present
Associate Editor (handling papers), *Empirical Economics*, 2018 – 2026
Guest Editor, *Empirical Economics*, Special Issue: “Good Modeling of Bad Outputs,” 2018
Guest Editor, *Empirical Economics*, Special Issue: “Applications in Efficiency & Productivity Analysis,” 2021

PUBLICATIONS (BY TOPIC)

Structural Methods for Productivity Analysis

- (1) “Estimating Production Functions using Costs when Outputs are Restricted”
with S. Zhao, S.C. Kumbhakar & D. Bernstein, *Econometric Reviews*, 2025, 44(4): 433–461
- (2) “A System Approach to Structural Identification of Production Functions with Multi-Dimensional Productivity”
with S. Zhao & J. Zhang, *Advances in Econometrics*, 2024, 46: 211–263
- (3) “On the Estimation of Cross-Firm Productivity Spillovers with an Application to FDI”
with S. Zhao, *Review of Economics & Statistics*, 2023, 105(5): 1207–1223
- (4) “Detecting Learning by Exporting and from Exporters”
with J. Zhang, *Journal of Productivity Analysis*, 2023, 60: 1–19
- (5) “Accounting for Cross-Location Technological Heterogeneity in the Measurement of Operations Efficiency”
with J. Zhang, S. Zhao & S.C. Kumbhakar, *Journal of Operations Management*, 2022, 68(2): 153–184
- (6) “Proxy Variable Estimation of Multi-Product Production Functions”
with G. Lien, *American Journal of Agricultural Economics*, 2021, 103(5): 1878–1902
- (7) “Estimation of Firm-Level Productivity in the Presence of Exports: Evidence from China’s Manufacturing”
with S. Zhao & S.C. Kumbhakar, *Journal of Applied Econometrics*, 2020, 35(4): 457–480

Valuation of Climate Change Effects

- (8) “Geography of Climate Change Adaptation in U.S. Agriculture”
with J. Zhang, R. Miao & P. Ghosh, *Journal of Regional Science*, 2026, 66(1): 46–88
- (9) “Distributional Effects of the Increasing Heat Incidence on Labor Productivity”
with J. Zhang & R. Miao, *Journal of Environmental Economics & Management*, 2024, 125, Article 102998
- (10) “Distributional and Temporal Heterogeneity in the Climate Change Effects on U.S. Agriculture”
with R. Miao & J. Zhang, *Journal of Environmental Economics & Management*, 2020, 104, Article 102386

(Semi)parametric Methods for Spatial and Panel Data

- (11) “Smoothed LSDV Estimation of Functional-Coefficient Panel Data Models with Two-Way Fixed Effects”
with S. Halder, *Economics Letters*, 2020, 192, Article 109239
- (12) “(Under)Mining Local Residential Property Values: A Semiparametric Spatial Quantile Autoregression”
with Y. Sun & D. Hite, *Journal of Applied Econometrics*, 2019, 34(1): 82–109
- (13) “Estimation & Inference in Functional-Coefficient Spatial Autoregressive Panel Data Models with Fixed Effects”
with Y. Sun, *Journal of Econometrics*, 2018, 203(2): 359–378
- (14) “Semiparametric Estimation and Testing of Smooth Coefficient Spatial Autoregressive Models”
with Y. Sun, *Journal of Econometrics*, 2017, 199(1): 12–34
- (15) “Heterogeneous Credit Union Production Technologies with Endogenous Switching and Correlated Effects”
with D.A. Restrepo-Tobón & S.C. Kumbhakar, *Econometric Reviews*, 2018, 37(10): 1095–1119
- (16) “Varying Coefficient Panel Data Model in the Presence of Endogenous Selectivity and Fixed Effects”
with S.C. Kumbhakar & Y. Sun, *Journal of Econometrics*, 2016, 190(2): 233–251
- (17) “A Generalized Panel Data Switching Regression Model”
with S.C. Kumbhakar, *Economics Letters*, 2014, 124(3): 353–357

Productivity in Financial Services Industry

- (18) “Off-Balance-Sheet Activities and Scope Economies in U.S. Banking”
with J. Zhang, *Journal of Banking & Finance*, 2022, 141, Article 106534
- (19) “Product and Geographic Market Diversification in U.S. Banking”
with J. Zhang and V. Hartarska, *Finance Research Letters*, 2021, 42, Article 101881
- (20) “Economies of Diversification in Microfinance: Evidence from Quantile Estimation on Panel Data”
with V. Hartarska & R. Mersland, *Finance Research Letters*, 2020, 34, Article 101246
- (21) “Endogenous Scope Economies in Microfinance Institutions”
with V. Hartarska, *Journal of Banking & Finance*, 2018, 93: 162–182
- (22) “Economies of Diversification in the U.S. Credit Union Sector”
with S. Zhao & S.C. Kumbhakar, *Journal of Applied Econometrics*, 2017, 32(7): 1329–1347
- (23) “Estimation of Banking Technology under Credit Uncertainty”
with D.A. Restrepo-Tobón & S.C. Kumbhakar, *Empirical Economics*, 2015, 49(1): 185–211

Stochastic Frontier Methods

- (24) “Endogenous Dynamic Efficiency in the Intertemporal Optimization Models of Firm Behavior”
with E.G. Tsionas & S.C. Kumbhakar, *European Journal of Operational Research*, 2020, 284(1): 313–324
- (25) “An Internally Consistent Approach to the Estimation of Market Power and Cost Efficiency
with an Application to U.S. Banking”
with E.G. Tsionas & S.C. Kumbhakar, *European Journal of Operational Research*, 2018, 270(2): 747–760
- (26) “A Hedonic Output Index based Approach to Modeling Polluting Technologies”
with R. Bokusheva & S.C. Kumbhakar, *Empirical Economics*, 2018, 54(1): 287–308
- (27) “A Cost System Approach to the Stochastic Directional Technology Distance Function with Undesirable Outputs:
The Case of U.S. Banks in 2001–2010”
with S.C. Kumbhakar & E.G. Tsionas, *Journal of Applied Econometrics*, 2016, 31(7): 1407–1429

- (28) “Estimation of Input Distance Functions: A System Approach”
with E.G. Tsionas & S.C. Kumbhakar, *American Journal of Agricultural Economics*, 2015, 97(5): 1478–1493
- (29) “Bayesian Approach to Disentangling Technical and Environmental Productivity”
with S.C. Kumbhakar & E.G. Tsionas, *Econometrics*, 2015, 3(2): 443–465

Miscellaneous

- (30) “Crop Insurance Premium Subsidy and Irrigation Water Withdrawals in the Western United States”
with P. Ghosh and R. Miao, *Geneva Papers on Risk & Insurance–Issues & Practice*, 2023, 48: 968–992
- (31) “Nonparametric Estimates of the Clean and Dirty Energy Substitutability”
with K. Sun and S.C. Kumbhakar, *Economics Letters*, 2018, 168: 118–122
- (32) “Dynamic Responses to Oil Price Shocks: Conditional vs. Unconditional (A)symmetry”
Economics Letters, 2016, 139: 31–35
- (33) “How People Think about Distributing Aid”
with N. Hassoun & N. Lubchenco, *Philosophical Psychology*, 2016, 29(7): 1029–1044
- (34) “A Second Look at Sticky Wholesale Gasoline Prices”
Journal of Economic & Social Measurement, 2011, 36(3): 227–235

NON-PEER-REVIEWED PUBLICATIONS

- (35) “Adaptation of Agriculture to Climate Change”
with R. Miao, *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, 2e, Lundgren, T., Bostian, M., Managi, S. (eds.), 2025, Vol. 3, 245–253
- (36) “Corrigendum to ‘Smoothed LSDV estimation of functional-coefficient panel data models with two-way fixed effects’ [Econ. Lett. 192 (2020) 109239]”
with S. Halder, *Economics Letters*, 2021, 209, Article 110134
- (37) “Applications of Efficiency and Productivity Analysis: Editors’ Introduction”
with S.C. Kumbhakar & C.F. Parmeter, *Empirical Economics*, 2021, 60(6): 2657–2663
- (38) “Good Modeling of Bad Outputs: Editors’ Introduction”
with S.C. Kumbhakar, *Empirical Economics*, 2018, 54(1): 1–6

WORKING PAPERS & WORK IN PROGRESS

- (1) “On the Estimation of Nonneutral Production Technologies without Homothetic Separability”
with S. Zhao & S.C. Kumbhakar, 2026, R&R at the *RAND Journal of Economics*
- (2) “Estimating Factor-Biased Productivity Spillovers”
with Z. Hou & S. Zhao, 2026, *submitted*
- (3) “Global Warming, Local Effects”
with J. Zhang & R. Miao, 2026, *submitted*
- (4) “Effects of Heat Stress across the U.S. Farm Profitability Distribution”
with A. Zaman, R. Miao & J. Zhang, 2026, *submitted*
- (5) “Most Likely Effects of Climate Change”
with J. Zhang & R. Miao
- (6) “EHR as a Digital Divide: Identifying Barriers in Health Data Exchange Practices”
with H.-f. Hu, A. Krishen & R. Raschke, 2025, *submitted*

INACTIVE MANUSCRIPTS

- (1) “Firm Productivity, Heterogeneity and Exports” 2017 *mimeo* (last revised 2020)
- (2) “A Proportional Scale-Invariant Measurement of Heterogeneous Directional Distances to the Technological Frontier,” with E.G. Tsionas & D.A. Restrepo-Tobón, 2017 *mimeo*
- (3) “Are the Job Flow Responses to Oil Price Shocks Asymmetric?” 2012 *mimeo* (last revised 2015)

- (4) “Do Direction, Normalization and the Jacobian Matter in the Productivity Measurements based on the Directional Distance Function?,” with E.G. Tsionas & S.C. Kumbhakar, 2014 *mimeo*

FUNDED GRANTS

- (1) PI, “Locational Heterogeneity in Production,” Troesh Research Grant Program, Troesh Center for Entrepreneurship and Innovation, awarded in May 2021, \$7,500
- (2) PI, “Scope Economies in the Post-crisis US Banking,” Troesh Research Grant Program, Troesh Center for Entrepreneurship and Innovation, awarded in May 2020, \$9,000
- (3) Co-PI, “Innovations in the Food Supply Chain to Reduce Food Waste” with A. Morey (PI), J. Cuffey and S. Rao, New Innovator in Food and Agriculture Research Award Funding Program, Foundation for Food and Agriculture Research, awarded in October 2018, \$188,360
- (4) PI, “Productivity in the Peanut Production in Alabama and the Southeast after the Quota System Elimination: Identifying Key Contributors to the Yield and Efficiency Gains,” Agricultural Research Enhancement, Exploration and Development Funding Program, Alabama Agricultural Experiment Station, awarded in August 2017, \$49,998
- (5) Co-PI, “Production Risk of Alabama Agriculture: Its Determinants and the Effects of Risk Management Tools on Farmers’ Production Efficiency and Welfare” with R. Miao (PI), D. Nadolnyak and M. Runge, Production Agriculture Research Funding Program, Alabama Agricultural Experiment Station, awarded in April 2017, \$35,000

INVITED SEMINAR & CONFERENCE PRESENTATIONS

- 77th European Meeting (EEA-ESEM2026), Econometric Society, University College Dublin, Ireland, 2026
- University of Miami, Department of Economics, Miami, FL, 2025
- North American Productivity Workshop XII, Virginia Tech Research Center, Arlington, VA, 2025
- 11th Annual Conference, International Association for Applied Econometrics, University of Macedonia, Thessaloniki, Greece, 2024
- 8th Annual Conference, Society for Economic Measurement, University of Milano-Bicocca, Milan, Italy, 2023
- North American Productivity Workshop XI, University of Miami Business School, Miami, FL, 2023
- European Workshop on Efficiency and Productivity Analysis XVII, Católica Porto Business School, Porto, Portugal, 2022
- ASSA Annual Meeting, AAEA Hosted Session, Virtual, 2022
- North American Productivity Workshop, University of Miami Business School, Virtual, 2020
- University of Nebraska–Lincoln, Department of Economics, Lincoln, NE, 2019
- 29th Annual Meeting, Midwest Econometrics Group, Ohio State University, Columbus, OH, 2019
- Texas A&M University, Department of Industrial & Systems Engineering, College Station, TX, 2018
- Binghamton University, Department of Economics, Binghamton, NY, 2018
- Auburn University, Department of Economics, Auburn, AL, 2018
- AAEA Annual Meeting, Washington, DC, 2018
- North American Productivity Workshop X, University of Miami Business School, Miami, FL, 2018
- NY Camp Econometrics XIII, Bolton Landing, NY, 2018
- University of Alabama, Department of Economics, Finance & Legal Studies, Tuscaloosa, AL, 2016
- AAEA Annual Meeting, Boston, MA, 2016
- Auburn University, Department of Agricultural Economics, Auburn, AL, 2015
- 85th Annual Meeting, Southern Economic Association, New Orleans, LA, 2015
- 25th Annual Meeting, Midwest Econometrics Group, Federal Reserve Bank of St. Louis, MO, 2015
- NY Camp Econometrics X, Bolton Landing, NY, 2015
- Federal Reserve Bank of Dallas, Research Department, Dallas, TX, 2014
- NY Camp Econometrics IX, Watkins Glen, NY, 2014
- Syracuse University, Department of Economics, Syracuse, NY, 2013
- University at Albany, Department of Economics, Albany, NY, 2013
- 23rd Annual Meeting, Midwest Econometrics Group, Indiana University Bloomington, IN, 2013
- 39th Annual Meeting, Eastern Economic Association, New York, NY, 2013

REFeree SERVICE

[in alphabetical order] *American Journal of Agricultural Economics* (×4) • *China Economic Review* • *Communications in Statistics: Case Studies, Data Analysis and Applications* • *Communications in Statistics: Simulation and Computation* • *Eastern Economic Journal* • *Econometric Reviews* (×7) • *Econometric Theory* • *Econometrica* • *Econometrics* • *Economic Inquiry* (×2) • *Economic Modelling* (×2) • *Economics Letters* (×4) • *Emerging Markets Finance and Trade* • *Empirical Economics* (×5) • *Energy Journal* • *Environment and Development Economics* • *European Journal of Operational Research* (×2) • *European Review of Agricultural Economics* • *Finance Research Letters* (×2) • *International Review of Economics and Finance* • *Journal of African Business* • *Journal of Agricultural Economics* • *Journal of Applied Econometrics* (×6) • *Journal of Applied Statistics* • *Journal of Business and Economic Statistics* (×2) • *Journal of Co-operative Organization & Management* • *Journal of Econometrics* (×5) • *Journal of Economic Surveys* • *Journal of International Financial Markets, Institutions & Money* • *Journal of International Money and Finance* • *Journal of Multivariate Analysis* • *Journal of Operations Management* (×2) • *Journal of Political Economy* • *Journal of Microeconomics* (×2) • *Journal of Productivity Analysis* (×8) • *Journal of Quantitative Economics* • *Journal of the Association of Environmental and Resource Economists* • *Journal of the European Economic Association* • *Journal of the Operational Research Society* • *Journal of Regional Science* • *Journal of the Royal Statistical Society* • *Macroeconomic Dynamics* • *Managerial Finance* • *Nature Climate Change* • *Networks and Spatial Economics* • *Portuguese Economic Journal* • *Singapore Economic Review* • *Springer's Advances in Efficiency and Productivity Analysis* • *Springer's Handbook of Production Economics* • *World Development* • *Transportation Research Part B (Methodological)*

EXTERNAL & PANEL REVIEWER SERVICE

- External Reviewer for Promotion and Tenure, 2025
- External Reviewer for Mid-Probationary Review, 2025
- UNLV Troesh Center Research Grant Review Panel, 2020
- Alabama Agricultural Experiment Station, Research Funding Program Review Panel, 2019
- USDA National Institute of Food and Agriculture, AFRI Foundational Program, “Economics, Markets & Trade” Review Panel, 2017

HONORS & AWARDS

- Editorial Contribution Award, *Empirical Economics*, 2025, 2026
- Editor's Author Service Award, *Journal of Productivity Analysis*, 2025
- Lee Researcher of the Year, Lee Business School, UNLV, 2021
- Top Cited Article in 2020–2021, *Journal of Applied Econometrics*
- Troesh Scholar, Troesh Center for Entrepreneurship and Innovation, Lee Business School, 2020, 2021
- Lee Professorship in Economics, Lee Business School, UNLV, since 2019
- Outstanding Publication Award, College of Agriculture, Auburn University, 2018
- Finalist for the Best Paper Award in Microfinance, FMA International, 2018
- Fellow, NY Camp Econometrics, Maxwell School Center for Policy Research, Syracuse University, 2018
- Outstanding Reviewer, *European Journal of Operational Research*, 2018
- Graduate Student Award for Excellence in Research, Binghamton University, 2014
- Binghamton University Foundation Award, Binghamton University, 2014
- New York State and GSEU Professional Development Award, 2013
- Fellowship under the Eurasian Undergraduate Exchange Program, a program of the Bureau of Educational and Cultural Affairs of U.S. Department of State, 2006–2007
- Fellowship of the President of the Republic of Azerbaijan, 2004–2009

PROFESSIONAL AFFILIATIONS

Member, American Economic Association
 Member, Econometric Society
 Member, International Association for Applied Econometrics
 Member, Society for Economic Measurement

TEACHING EXPERIENCE

UNLV: Advanced Econometric Methods (Master's) • Business Forecasting (Master's) • Economic Growth • Intermediate Microeconomics • Principles of Statistics

AUBURN UNIVERSITY: Microeconometrics I (Ph.D.) • Microeconometrics II (Ph.D.) • Production Economics II: Productivity & Efficiency Analysis (Ph.D.) • Econometrics (Masters)

ST. LAWRENCE UNIVERSITY: Econometrics • Economic Growth • Intermediate Macroeconomic Theory • Mathematical Economics

BINGHAMTON UNIVERSITY: Economic Growth • Macroeconomic Theory

STUDENT SUPERVISION

Dissertation Committee Chair/Co-Chair

- (1) Jingfang Zhang, Auburn University (Applied Economics), 2021, "Essays in Productivity Analysis"
- (2) Shaymal Halder, Auburn University (Statistics), 2020, "Estimation of Semiparametric Functional-Coefficient Panel Data Models with Fixed Effects"
- (3) Meijuan Wang, Auburn University (Applied Economics), 2018, "Three Essays in Environmental and Development Economics"

Dissertation Committee Member

- (4) Saeed Ehsanfar, UNLV (Hospitality), in progress "Essays on Regime-Dependent Hotel Demand, Customer Mix Resilience, and Pricing Effectiveness"
- (5) Chengyu Si, Auburn University (Applied Economics), 2019, "Three Essays in Applied Economics"
- (6) Chuong Bui, Auburn University (Applied Economics), 2018, "Three Essays on the Fish Demand Analysis"
- (7) Rui Chen, Auburn University (Applied Economics), 2017, "Essays in Applied Economics"

Master's Professional Paper Committee Chair

- (8) Stephen Sifuentes, UNLV (Economics), 2023, "Cross-firm Productivity Spillovers in China's Chemical Manufacturing Industry"

Master's Thesis/Professional Paper Committee Member

- (9) John Giletto, UNLV (Economics), 2025, "Universal Cash Transfers & Food Security"
- (10) Ross Martin, UNLV (Economics), 2025, "Should American Students Consider College Education Abroad? The Impact of a Foreign College Degree on US Earnings"
- (11) Samuel Baird, UNLV (Economics), 2024, "The Mobility of FRAND: Adapting Standard Essential Patent Licensing for the Internet of Things Era"
- (12) Howard Hamilton, UNLV (Economics), 2022, "Do Solar Panels Command a Home Price Premium?"
- (13) Rafid Hamika, UNLV (Economics), 2021, "The Effect of the Coastal Boundary Zone on Housing and Land Values"
- (14) Ei Myint, UNLV (Economics), 2021, "Lifting the U.S. Oil Export Ban: Effects on Domestic Crude Oil Prices"
- (15) Mohammad Sami Samim, Auburn University (Applied Economics), 2017, "The Impact of Foreign Aid on Agricultural Growth in Developing Countries"

Undergraduate Thesis Supervisor

- (16) Yibei Chen, St. Lawrence University (Economics), 2015, "Do Macroeconomic Indicators Respond to Oil Price Shocks (A)symmetrically?"
- (17) Nicholas Chretien, St. Lawrence University (Economics), *Honors Thesis*, 2015, "The Effects of the Volcker Rule on Profitability and Risk of U.S. Financial Institutions"

UNIVERSITY SERVICE

UNLV

Chair, Graduate Program Review Committee, Graduate Council, 2024 – present

Member, Graduate College Executive Committee, 2024 – present

Graduate Coordinator, Department of Economics, 2023 – present

Member, Lee Operational Efficacy Planning Working Group, Lee Business School, 2026 – present
 Chair, P&T Committee, Department of Economics, 2026 – present (member since 2022)
 Chair, Annual Evaluation Committee, Department of Economics, 2026 – present (member since 2022)
 Member, Research Committee, Department of Economics, 2019 – present
 Member, Personnel Appeals Committee, Lee Business School, 2021 – present
 Member, Lee Professor Search Committee, Department of Economics, 2026 – 2027
 Member, Ph.D. Committee, Lee Business School, 2022 – 2025
 Member, Instructional Infrastructure Committee, Faculty Senate, 2023 – 2025
 Organizer, Research Brown Bag Series, Department of Economics, 2019 – 2025
 Chair, Junior Faculty Search Committee, Department of Economics, 2022 – 2023
 Member, Junior Faculty Search Committee, Department of Economics, 2021 – 2022
 Member, Junior Faculty Search Committee, Department of Economics, 2019 – 2020
 Member, Troesh Research Grant Selection Committee, Lee Business School, 2020
 Co-Coordinator, Seminar Series, Department of Economics, 2019 – 2021
 Member, Ad Hoc Undergraduate Committee, Department of Economics, 2019 – 2020

AUBURN UNIVERSITY

Member, Graduate Program Committee, Department of Ag Economics, 2017 – 2019
 Member, Ph.D. Qualifying Paper/Exam Committee, Department of Ag Economics, 2017 – 2019
 Member, Director of Statistics Search Committee, College of Agriculture, 2019
 Member, Junior Faculty Search Committee, Department of Ag Economics, 2018

ST. LAWRENCE UNIVERSITY

Faculty Member, University Budget and Finance Committee, 2015 – 2016

PERSONAL INFORMATION

Nationality: U.S. Citizen
 Languages: English, Russian