VITA

ARIE BERESTEANU

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FIELDS OF INTEREST

Econometrics, Empirical Industrial Organization, Environmental Economics

EDUCATION

Ph.D., Economics, Northwestern University, Evanston, Illinois
Committee Chairperson: Charles F. Manski
Date of Completion: June 2001
M.A. Economics, Hebrew University, Jerusalem, Israel, 1997 with honors
B.S. Mathematics & Economics, Hebrew University, Jerusalem, Israel, 1994 with honors

EMPLOYMENT

University of Pittsburgh – Associate Professor 2012-present
University of Pittsburgh – Assistant Professor, 2010-2012
Duke University – Assistant Professor, 2001-2010

TEACHING EXPERIENCE

Undergraduate:

Hebrew University, Israel: Introduction to data analysis with Python (mini course), 2023, 2024, 2025
University of Pittsburgh, Economics Research and Data Skills, 2022S, 2023S, 2024S, 2025S, 2025F
University of Pittsburgh, Market Structure and Competition, 2013S, 2014S, 2015S, 2016S, 2018S, 2019S, 2024S
University of Pittsburgh, Applied Econometrics, 2011S, 2014F, 2015F, 2017S, 2018F,2021S
University of Pittsburgh, Independent study, 2018,2019,2023
University of Pittsburgh, Economics research – Data skills, 2022S,2023S,2024S
Duke University, Senior Thesis Advisor, 2004, 2007, 2008, 2009,2010
Duke University, Competitive Strategy and Industrial Organization, 2006S, 2007F, 2009S, 2010S

Graduate:

University of Pittsburgh, Econometrics Workshop, 2012F, 2013F, 2017F, 2019F
University of Pittsburgh, Advanced Econometrics, 2011S, 2012S, 2013S, 2014S, 2015S, 2016S, 2017S, 2018S, 2019S, 2020F, 2021F, 2022F, 2023F, 2024F, 2025F
University of Pittsburgh. General Econometrics 2021S, 2022S
Duke University, Econometrics III, 2001F, 2002F, 2003F, 2004F, 2005F
Duke University, Advanced Topics in Econometrics, 2006F, 2007F, 2008F, 2009F
Duke University, Applied Microeconomics, 2003F, 2004F, 2006S, 2007F, 2009S, 2010S

FELLOWSHIPS AND AWARDS

Arnold Zellner Award for the Best Ph.D. Thesis in Business and Economic Statistics, 2002
Young Economist Award of the European Economic Association, August 2002
Northwestern University Fellow, 1997-1998
Hebrew University Fellow, 1994-1997

GRANTS

NSF grant SES-0922373, 2009-2011

> "Collaborative Research: Identification in Incomplete Econometric Models using Random Set Theory" (in collaboration with Francesca Molinari), 07/15/2009-07/14/2011. Total amount awarded $214,275.

NSF grant SES-0617559, 2006-2008

> "Collaborative Research: Asymptotic Properties for Partially Identified Models" (in collaboration with Francesca Molinari), 07/01/2006-06/30/2009. Total amount awarded $138,917.

CRDF small grant, 2013-2015

> "Spatial Analysis of the Effectiveness of Inspections in the Shale Gas Drilling Sector" (in collaboration with Shanti Gamper), 07/01/20013-06/30/2015. Total amount awarded $16,000.

PUBLISHED PAPERS

"Nonparametric Analysis of Cost Complementarities in the Telecommunication Industry", The **Rand Journal of Economics**, Winter 2005

"Asymptotic Properties for a Class of Partially Identified Models", with Francesca Molinari, **Econometrica**, Vol. 76, No. 4, pp 763-814, July 2008

"Gasoline Prices, Government Support, and the Demand for Hybrid Vehicles in the U.S.", with Shanjun Li, **International Economic Review**, 2011, Vol. 52, issue 1, pages 161- 182.

"Sharp Identification Regions in Models with Convex Moment Predictions," with Ilya Molchanov and Francesca Molinari, **Econometrica**, 2011, Vol. 79, issue 6, pages 1785-1821.

"Partial Identification Using Random Set Theory", with Ilya Molchanov and Francesca Molinari, **Journal of Econometrics**, 2012, Vol. 166, issue. 1, pages 17-32.

"Efficiency Gains in Rank-Ordered Multinomial Logit Models", With Federico Zincenko, **Oxford Bulletin of Economics and Statistics**, Vol. 80, issue 1, pages 122-134.

"Quantile Regression with Interval Data", With Yuya Sasaki, **Econometric Reviews** (Special Issue in Honor of Cheng Hsiao), Vol.40, Issue 6, Pages: 562-583. arXiv WP 1710.0757.

WORKING PAPERS

"Partial Identification with Auxiliary Moment Restrictions" (with Behrooz Moosavi Ramezanzadeh), August 2026, submitted.

"Bounds for Restricted Selections of Random Sets", (with Behrooz Moosavi), submitted, https://arxiv.org/abs/2512.04539

"Extended Set Difference: Inverse Operation of Minkowski Summation" (with Behrooz Moosavi Ramezanzadeh), December 2024 Revise and Resubmit at Journal of Convex Analysis, https://arxiv.org/abs/2412.19779

"Identification of Incomplete Preferences" (with Luca Rigotti), October 2025.

"Dynamic Competition in Oligopolistic Markets", with Paul Ellickson and Sanjog Misra, 2024. Revise and Resubmit at Marketing Science.

"An Optimal Shape of Income Tax: Evidence from Zero Income Tax Countries - Paraguay and Uruguay", with Dahan Momi, March 2003, Duke WP 2003-05.

"Sharp Identification Regions in Games", with Ilya Molchanov and Francesca Molinari, Cemmmap working paper CWP 15/08.

WORK IN PROGRESS

"Defensive Experimental Design" (with Alistair Wilson)
"Monopoly Screening under Vagueness" (With Luca Rigotti and Gabriel Ziegler)
"Regulating the Boom: Strategic Behavior in Louisiana's Fracking Industry" (with Arifah Hasanbasri).

NONACADEMIC EXPERIENCE

Economist, Foreign Exchange Department, Bank of Israel, Jerusalem, Israel 1994-1997

PAPERS IN OTHER LANGUAGES

"Nonparametric analysis of wage equations and income distribution in Israel - a comparison between salaried and self-employed workers", Working Paper, Falk Institute for Economic Research in Israel, July 1997 (in Hebrew)

SOFTWARE

"BOUNDS" draft version 1.0, with Charles .F. Manski, MatLab and STATA, with documentation, June 2000. (Discontinued)
"SVRV" draft version 1.0, with Francesca Molinari and Emily Wang, Matlab, with documentation, May 2009.
"SVRV" version 1.0, with Francesca Molinari and Darcey Steeg Morris, with documentation, 2010.
"JuBounds" version 0.1.0 with Yunyun LV, August 2024. GitHub page: ArieBeresteanu/Bounds.jl: Bounds package for Julia

PROGRAMMING LANGUAGES AND SOFTWARE

Proficient: Julia, Python
Good Knowledge of: Stata, Jupyter Notebooks/Labs, Fortran 90/2003/8
Familiarity: SQL, Javascript, HTML5, CSS3

DEPARTMENTAL SERVICE (at Pitt)

Associate (vice) chair - 2024-
Undergraduate committee – 2023-
Graduate Committee – Fall 2010-2015, 2018,2020-2021
Recruiting committee - 2011,2012, 2013, 2018, 2019
Executive Committee – 2013, 2014, 2016, 2017, 2018, 2019
Econometrics Seminar – Fall 2010-2013, 2016
Summer Reading Group – 2011, 2012, 2014,2021
Pittsburgh Economic Medley conference – 2013, 2014, 2015, 2022, 2023

GRADUATE PROGRAM RESPONSIBILITIES

Dissertations supervision –Stephanie Houghton (Duke, 2008), Stephen Ryan (Duke, 2005), Wei Zheng (Duke, 2005), Alex Li (UNC, 2003), Emily Wang (Duke, 2011), Tate Twinam (Pitt, 2015), Shawn McCoy (Pitt, 2016), Yingjun Su (Pitt, 2017), Mak Ho-Ching (Pitt, 2017), Ian Morrall (Pitt, 2018), Mark Azic (Pitt, 2020), Marta Boczon(Pitt, 2021) , Quanquan Liu (Pitt, 2021), Hyungjin Kim (Pitt, 2024), Andrew Holt(Pitt, 2022), Gregory Scala (Pitt, 2025), Roman Koshovnyk(Pitt, 2025), Garret Fiegenbaum (Pitt, 2025), Arifah Hasanbasri (Pitt, ongoing), Behrooz Moosavi (Pitt, on going)

PROFESSIONAL ACTIVITIES

Referee Reports – refereed papers for: Journal of Human Resources, Journal of Business and Statistics, RAND journal of Economics, Journal of Applied Econometrics, Journal of Econometrics, International Economic Review, Economics Letters, Review of Economic Studies, B.E. journal of Policy and for the Center of Economic Studies, B.E. Journal of Policy, National Science Foundation (NSF), Econometrica, Journal of environmental economics and management, Resources and Energy Economics, International Economic Review, Quantitative Economics, Transportation Economics, Oxford Bulletin of Economics and Statistics, Energy Policy, International Journal of Sustainable Transportation, Journal of the Association of Environmental and Resource Economics, International Journal of Sustainable Transportation, Journal of Economic Behavior and Organization, Environmental Science and Pollution Research, Data Science in Finance and Economics.

Conference organization - Greater NYC Econometric Colloquium 2025