Phone: (607) 255-6367

Fax: (607) 255-2818

FRANCESCA MOLINARI

fm72@cornell.edu https://molinari.economics.cornell.edu/

Department of Economics, Cornell University 458 Uris Hall, Ithaca, N.Y. 14853-7601

Education:

1998-2003	Northwestern University, Ph.D. in Economics.
1997-1998	CORIPE Piemonte, Italy, MA in Economics.
1993-1997	Università degli Studi di Torino, Italy, Laurea in Economia, Summa cum Laude.

Academic Positions:

H. T. Warshow and Robert Irving Warshow Professor of Economics and Professor of Statistics, Cornell University, 2017 – present.

Director of Graduate Studies, Cornell University, 2023-present.

Professor of Economics and Professor of Statistics, Cornell University, 2014–2016.

Associate Chair, Department of Economics, Cornell University, 2012–2013.

Associate Professor of Statistics, Cornell University, 2013.

Assistant (2003-2009) and Associate (2009-2013) Professor of Economics, Cornell University.

Visiting Positions:

University of Chicago, Department of Economics, Kenneth C. Griffin Applied Economics Incubator, Distinguished Visitor, 10/2024.

University of Wisconsin Madison, Department of Economics Juli Plant Grainger Institute for Economic Research, visitor program, 11/2023.

Boston University, Department of Economics, Distinguished Visitor, 11/2019.

Duke University, Visiting Professor of Economics (sabbatical leave), 2018-2019.

Current Editorial Activities:

Editor: Journal of Political Economy, July 2024-present.

Books

Random Sets in Econometrics, with Ilya Molchanov, April 2018, Econometric Society Monograph Series, Cambridge University Press.

Published and Accepted Papers

"Testing Sign Congruence Between Two Parameters," with Doug Miller and Joerg Stoye, July 2025, accepted at the <u>Journal of Applied Econometrics</u>.

"Learning about Stability of Risk Preferences", with Levon Barseghyan and Josh Teitelbaum, May 2025, accepted at the *Journal of Political Economy Microeconomics*.

"Risk Preference Types, Limited Consideration, and Welfare" with Levon Barseghyan, <u>Journal of Business and Economic Statistics</u>, vol. 41, pp. 1011-1029, October 2023. Discussion paper with comments and rejoinder.

"Tail and Center Rounding of Probabilistic Expectations in the Health and Retirement Study," with Pamela Giustinelli and Charles F. Manski, *Journal of Econometrics*, vol. 231, pp. 265-281, November 2022.

"Constraint Qualifications in Partial Identification," with Hiroaki Kaido and Joerg Stoye, <u>Econometric Theory</u>, vol. 38, pp. 596-619, June 2022.

"Precise or Imprecise Probabilities? Evidence from Survey Response on Late-onset Dementia," with Pamela Giustinelli and Charles F. Manski, *Journal of the European Economic Association*, vol. 20, pp. 187–221, February 2022.

"Heterogeneous Choice Sets and Preferences," with Levon Barseghyan, Maura Coughlin, and Joshua C. Teitelbaum, *Econometrica*, vol. 89, pp. 2015-2048, September 2021, **lead article**.

"Discrete Choice under Risk with Limited Attention," with Levon Barseghyan and Matthew Thirkettle, <u>American Economic Review</u>, vol. 111, pp. 1972-2006, June 2021.

"Estimating the COVID-19 Infection Rate: Anatomy of an Inference Problem", with Charles F. Manski, *Journal of Econometrics*, vol. 220, pp. 181-192, January 2021, recipient of the 2022 **Willard G. Manning Memorial Award** for the Best Research in Health Econometrics.

"Local Regression Smoothers with Set-Valued Outcome Data," with Qiyu Li, Ilya Molchanov and Sida Peng, *International Journal of Approximate Reasoning*, vol. 128, pp. 129-150, January 2021.

"Microeconometrics with Partial Identification," in <u>Handbook of Econometrics</u>, vol. 7A, S. Durlauf, L.P. Hansen, J.J. Heckman, R.L. Matzkin (Eds.), pp. 355-486, Elsevier, 2020.

"The Cost of Legal Restrictions on Experience Rating," with L. Barseghyan, D. Steeg Morris and J. Teitelbaum, *Journal of Empirical Legal Studies*, vol. 17, pp. 38-70, March 2020.

"Confidence Intervals for Projections of Partially Identified Parameters," with Hiroaki Kaido and Joerg Stoye, *Econometrica*, vol. 87, pp. 1397-1432, July 2019.

"Estimating Risk Preferences in the Field," with L. Barseghyan, T. O'Donoghue and Josh Teitelbaum, *Journal of Economic Literature*, vol. 56, pp. 501-564, June 2018.

"Inference under Stability of Risk Preferences," with L. Barseghyan and J. C. Teitelbaum, *Quantitative Economics*, vol. 7, pp. 367-409, July 2016.

"Applications of Random Set Theory in Econometrics," with I. Molchanov, <u>Annual Reviews of Economics</u>, vol. 6, pp. 229-251, August 2014.

"The Nature of Risk Preferences: Evidence from Insurance Choice," with L. Barseghyan, T. O'Donoghue and J. C. Teitelbaum, *American Economic Review*, vol. 103, n. 6, pp. 2499-2529, October 2013.

"Distinguishing Probability Weighting from Risk Misperceptions in Field Data," with Levon Barseghyan, Ted O'Donoghue and Joshua C. Teitelbaum, <u>American Economic Review Papers and Proceedings</u>, vol. 103, number 3, pp. 580-585, 2013.

"Partial Identification Using Random Set Theory," with Arie Beresteanu and Ilya Molchanov, <u>Journal of Econometrics</u>, vol. 166, issue 1, pp. 17-32, 2012. <u>ERRATA</u>

"Sharp Identification Regions in Models with Convex Moment Predictions," with Arie Beresteanu and Ilya Molchanov, *Econometrica*, vol. 79, issue 6, pp. 1785-1821, 2011.

"Rounding Probabilistic Expectations in Surveys," with Charles F. Manski, <u>Journal of Business and Economic Statistics</u>, vol. 28, number 2, pp. 219-231, 2010.

"Missing Treatments," <u>Journal of Business and Economic Statistics</u>, vol. 28, number 1, pp. 82-95, 2010.

"The Identification Power of Equilibrium in Games: The Supermodular Case," with Adam Rosen, <u>Journal of Business and Economic Statistics</u>, vol. 26, number 3, pp. 297-302, 2008. Invited discussion of Aradillas-Lopez and Tamer (2008) prepared for the 2007 Joint Statistical Meetings.

"Asymptotic Properties for a Class of Partially Identified Models," with Arie Beresteanu, <u>Econometrica</u>, vol. 76, issue 4, pp. 763-814, 2008.

"Partial Identification of Probability Distributions with Misclassified Data," <u>Journal of Econometrics</u>, vol. 144, issue 1, pp. 81-117, 2008.

"Skip Sequencing: A Decision Problem in Questionnaire Design," with Charles F. Manski, <u>Annals of Applied Statistics</u>, vol. 2, number 1, pp. 264-285, 2008.

"Spatial Correlation Robust Inference with Errors in Location or Distance," with Timothy G. Conley, *Journal of Econometrics*, vol. 104, issue 1, pp. 76-96, 2007.

"Generalization of a Result on 'Regressions: Short and Long'," with Marcin Peski, <u>Econometric</u> <u>Theory</u>, vol. 22, issue 1, pp. 159-163, 2006.

Other Publications:

"Econometric Issues in the Presence of Multiple Equilibria," 2010, in the *New Palgrave Dictionary* of Economics.

"Statistical Analysis of Choice Experiments and Surveys," with D. McFadden, A. Bemmaor, F. Caro, J. Dominitz, B. Jun, A. Lewbel, R. Matzkin, N. Schwarz, R. Willis and J. Winter, <u>Marketing Letters</u>, 2005, vol. 16, number 3/4, pp. 183-196.

Working Papers:

"Inference for an Algorithmic Fairness-Accuracy Frontier," with Yiqi Liu, June 2025. Extended abstract in EC '24: Proceedings of the 25th ACM Conference on Economics and Computation,

Proceedings of the 25th ACM Conference on Economics and Computation, p. 843, https://doi.org/10.1145/3670865.3673522.

"Information Based Inference in Models with Set Valued Predictions and Misspecification," with Hiroaki Kaido, January 2024, revision requested at <u>Econometrica</u>.

"Job Hunting: A Costly Quest," with Domenico Ferraro, Nir Jaimovich, Cristobal Young, November 2022, revision requested at *American Economic Journal: Macro*.

"Estimation of best linear approximations to set identified functions," with Arun G. Chandrasekhar, Victor Chernozhukov, and Paul Schrimpf, December 2018, CeMMAP Working Paper CWP 09/19. Revision requested by *Quantitative Economics*.

"<u>Calibrated Projection in MATLAB: Users' Manual</u>," with Hiroaki Kaido, Joerg Stoye, and Matt Thirkettle, October 2017.

Work in Progress:

"Limited Consideration through Salience", with Andres Aradillas-Fernandez and Levon Barseghyan.

"Simple Inference for Constrained Optima," with Hiroaki Kaido and Joerg Stoye.

"Misspecification-Robust Inference in Mean and Quantile Regression Models with Set-Valued Outcomes", with Hiroaki Kaido.

"Identification and Inference for Pure Random Coefficients Models with Limited Consideration", with Levon Barseghyan.

"Sharp Identification Regions for Network Formation Models with Bounded Depth and Degree," with Abhishek Ananth.

"Estimating Risk Preferences under Moral Hazard," with Levon Barseghyan.

"Effort Provision in a Social Coding Platform: Evidence from GitHub," with Levon Barseghyan, Matt Thirkettle, and Sida Peng.

"Computational Methods for Partially Identified Models via Data Augmentation and Support Vector Machines," with Haim Bar.

"Bracketing and Risk Preferences: Identification and Estimation in Field Data," with Levon Barseghyan, Ted O'Donoghue and Josh Teitelbaum.

Software:

<u>TestAlgFair</u>, with Yiqi Liu, a toolkit for Inference on an Algorithmic Fairness-Accuracy Frontier, developed 2025 (available online).

<u>Discrete Choice Under Risk with Limited Consideration in Matlab</u>, with Levon Barseghyan and Matthew Thirkettle, developed 2021 (available online).

<u>Heterogeneous Choice Sets and Preferences in Matlab</u>, with Levon Barseghyan, Maura Coughlin, and Joshua C. Teitelbaum, developed 2021 (available online).

<u>Calibrated Projection in MATLAB</u>, with Hiroaki Kaido, Joerg Stoye and Matt Thirkettle, developed 2019 (available online).

<u>Fortran code obtaining sharp identification regions in models with convex moment predictions</u>, with Arie Beresteanu and Ilya Molchanov, developed 2011 (available online).

<u>Stata Software for Best Linear Prediction with Interval Outcome Data</u>, with Arie Beresteanu and Darcy Steeg Morris, developed 2010 (available online).

Past Editorial Activities:

Joint Managing Editor: Review of Economic Studies, July 2019 – July 2023.

Associate Editor: Journal of Political Economy, July 2023-June 2024.

Board of Editors Member: Journal of Economic Literature, December 2015 – December 2022.

Foreign Editor: Review of Economic Studies, November 2017 – June 2019.

Associate Editor: Quantitative Economics, July 2013 – June 2019.

Associate Editor: Econometrica, July 2012 – June 2019.

Associate Editor: Journal of Econometric Methods, September 2010 – June 2019.

Associate Editor: Journal of Business & Economics Statistics, September 2009 – December 2018.

Associate Editor: Journal of Econometrics, May 2010 – December 2018.

Guest Editor (with Elie Tamer): Annals of Econometrics Issue on "Identification and Decisions," 2012.

Grants:

- NSF SES-2149374: "Discrete and Rank Ordered Choice Models with Heterogeneous Preferences and Consideration", PI Francesca Molinari, co-PI Levon Barseghyan, 04/15/2022-09/30/2025. Total amount awarded to Cornell: \$473,500.
- NSF SES-1824448: "An Empirical Model of Limited Consideration: Robust Inference for Risk Preferences", PI Levon Barseghyan, co-PI Francesca Molinari, 09/01/2018-08/31/2021. Total amount awarded to Cornell: \$395,982.
- NSF SES-1824375: "Collaborative Research: Robust Inference and Computational Methods for Optimal Values of Nonlinear Programs" PI Francesca Molinari; co-PI Joerg Stoye, 09/01/2018-08/31/2020. Total amount awarded to Cornell: \$176,959. (Collaborative research wit Hiroaki Kaido at Boston University.)
- ISS Small Grant: "Estimating Risk Preferences with Limited Consideration" (in collaboration with Levon Barseghyan), Spring 2018.
- ISS Small Grant: "Partial Identification and Statistical Decisions: A Conference" (in collaboration with Joerg Stoye), Spring 2011.

- NSF SES-1031136: "An Empirical Investigation into the Nature of Risk Preferences", PI: Levon Barseghyan, co-PIs: Francesca Molinari, Ted O'Donoghue, Joshua Teitelbaum, 09/01/2010-08/31/2013. Total amount awarded to Cornell: \$322,550.
- NSF SES-0922330: "Collaborative Research: Identification in Incomplete Econometric Models Using Random Set Theory", PI Francesca Molinari, 07/15/2009-06/30/2012. Total amount awarded to Cornell: \$229,081. (Collaborative research with Arie Beresteanu at Duke University.)
- NSF SES-0617482: "Collaborative Research: Asymptotic Properties for Partially Identified Models", PI Francesca Molinari, 07/01/2006-06/30/2009. Total amount awarded to Cornell: \$174,548. (Collaborative research with Arie Beresteanu at Duke University.)
- NIA R21 AG028465-01: "Respondents Tendencies for Nonresponse and Response Error", PI: Charles F. Manski, co-PI: Francesca Molinari, 07/01/2006-06/30/2008. Total amount awarded to Cornell: \$191,911. (This was a subcontract from Northwestern University.)

Fellowships and Awards:

Cornell Bowers CIS Faculty of the year for statistics and data science, 2025.

Willard G. Manning Memorial Award for the Best Research in Health Econometrics, 2022.

Fellow of the Econometric Society, elected in 2020.

Fellow of the International Association for Applied Econometrics, elected in 2019.

Center for Econometrics and Microdata Practice Fellow, 2019-present.

H.T. Warshow and Robert Irving Warshow Professor of Economics and Professor of Statistics, Cornell University, 2017-present.

Merrill Scholars Program Outstanding Educator Citation, 2005, 2006, 2023.

CeMMAP International Fellow, 2014-present.

2009 Robert and Helen Appel Fellowship for Humanists and Social Scientists.

2004 Zellner Thesis Award for Best Thesis in Business and Economic Statistics, American Statistical Association.

Northwestern University Graduate School Dissertation Year Fellowship, 2002-03.

Northwestern University Alumnae Foundation Dissertation Recognition Award, 2002.

Northwestern University Graduate Research Grant, 2002.

Graduate Fellow, Northwestern University, 1999-2002.

Graduate Fellow, Northwestern University Institute for Policy Research, 2000-2002.

The "Fondazione Luigi Einaudi" (Torino, Italy) Fellowship, 1999-2000.

Invited Lectures:

Keynote speaker at the 35th EC^2 Conference, December 2024, presenting "Misspecification-Robust Inference in Mean and Quantile Regression Models with Set-Valued Outcomes".

Keynote speaker at the 2024 Canadian Econometrics Group, presenting "Inference for an Algorithmic Fairness-Accuracy Frontier".

Plenary Keynote Lecture at the joint BoC - ECB - New York Fed Conference on Expectations Surveys, October 2022, presenting "Rounded and Imprecise Probabilities in Surveys".

Invited session at the European Meetings of the Econometrics Society, Milan, August 2022, presenting "Discrete Choice Models with Heterogeneous Preferences and Consideration" (current title: "Identification and Inference for Pure Random Coefficients Models with Limited Consideration").

Keynote speaker at the 2022 Foundations of Utility and Risk Conference, presenting "Risk Preference Types, Limited Consideration, and Welfare".

Newcomb Lecture, Johns Hopkins University, April 2022, presenting "Information Based Inference in Models with Set Valued Predictions".

Panelist at the Econometric Society Session: Methodology in Empirical Economics (North American Winter Meetings 2022).

Keynote Address at the Latin American Meetings of the Econometric Society, October 2021.

E. J. Hannan Lecture to the Econometric Society Australasian Meetings, July 2021.

Distinguished Visitor, Boston University, November 2019, presenting "Econometrics with Partial Identification".

Keynote speaker at the All-California Econometrics Conference, October 2019, presenting "Heterogeneous Choice Sets and Preferences".

Keynote speaker at the Armenian Economic Association Conference, June 2019, presenting "Heterogeneous Choice Sets and Preferences".

Penn Fund to Encourage Women (FEW) Undergraduate Lecture, November 2017, presenting "Identification in Econometrics".

Keynote speaker at the Annual Conferences of the International Association for Applied Econometrics, June 2016, presenting "Preference Types and Welfare in Insurance Markets" (current title: "Heterogeneous Choice Sets and Preferences").

"Computation and Inference in Partially Identified Models," European Meetings of the Econometrics Society, Toulouse, August 2014.

"Applications of random set methods in econometrics," CeMMAP Masterclass - London, with Ilya Molchanov, June 2014.

"Partial Identification Using Random Set Theory," Measurement Errors in Administrative Data Workshop at the Centre for European Economic Research (ZEW), Mannheim, 2010.

"Sharp Identification Regions in Games," Italian Congress of Econometrics and Applied Economics, Ancona, 2009.

Seminars and Conference Presentations over the last five years:

- 2025: JHU, University of Chicago, Warwick, UCL, LSE, Toulouse School of Economics, Stanford University SITE, Econometric Society World Congress, Harvard/MIT.
- 2024: LMU Munich, University of Bonn, University of Geneva, 35th EC^2 conference, Berkeley, Stanford, CEMFI (Madrid), SciencesPo (Paris), Cornell CS, University of Chicago, Michigan State University, Canadian Econometrics Group.
- 2023: USC, UCLA, CalTech, UCSB, Wisconsin, NYU, Queen's University, Chamberlain Seminar tutorial on Partial Identification.
- 2022: ASSA Meetings (virtual), Universitat Pompeu Fabra (virtual), New York University, Johns Hopkins University, Simons Institute workshop: Learning in the Presence of Strategic Behavior (virtual), São Paulo School of Economics (virtual), FUR 2022, European Meetings of the Econometric Society 2022, Women in Econometrics Conference, University of Nebraska Lincoln (virtual).
- 2021: Columbia University (virtual), University College London (virtual), Stanford SITE 2021, Conference (virtual), University of Alabama (virtual), Toulouse School of Economics (virtual), Harvard/MIT (virtual), Northwestern University, University of Chicago, Queen Mary University (virtual), Cornell/Penn State 2021 Conference (virtual), Committee on Quantitative Methods Workshop at University of Chicago (virtual), Princeton University (virtual), University of Glasgow (virtual), Chamberlain Seminar, University of Toronto (virtual), Center for Economic Methods and Practice Conference (virtual).

Professional Service:

Econometric Society Executive Committee elected member, 01/2025-12/2026.

Econometric Society North American Council elected voting member, 2024-2027.

Econometric Society North American Standing Committee elected voting member, 2021-2027.

ESIF Committee Chair, Econometric Society, 2025-present.

Program Committee Co-Chair, Econometric Society World Congress, 2025.

Program Committee Co-Chair, Econometric Society Interdisciplinary Frontiers (ESIF) conference on Economics and AI+ML (first conference in ESIF series), 2024.

Quantitative Economics Best Paper Award Committee, 2021, 2023.

Chamberlain Seminar Organizing Committee, 2022-2024.

Econometric Society Ad-hoc Committee on Prizes, 2022-2023.

Advisory Panel, National Science Foundation (2019-2020).

Program Committee Chair, International Association for Applied Econometrics Annual Conference, 2017.

Conference organizer (with Ulrich Mueller): "Inference in Non-standard Problems," 2012, 2013, 2014, 2015, co-sponsored by CEME/NSF and NBER.

Conference organizer (with Joerg Stoye): "Partial Identification and Statistical Decisions: A Conference," 2012, co-sponsored by Cornell Institute for Social Sciences, Cornell Center for Analytic Economics, the Institute for Advancement of Economics at Cornell, and Cornell's Economics Department.

Conference organizer (with Elie Tamer): "Identification and Decisions" in honor of Charles F. Manski's 60th birthday, 2009, co-sponsored by the Econometrics Center at Northwestern University and CeMMAP.

Membership in Conference Organizing Committees:

Virtual World Congress Committee Member, Econometric Society World Congress 2020.

Scientific Committee Member, International Association for Applied Econometrics Annual Conference, 2020.

Program Committee Member, Econometric Society Winter Meetings 2018.

Program Committee Member, International Association for Applied Econometrics Annual Conference, 2016, 2015.

Program Committee Member, Econometric Society World Congress 2015.

Program Committee Member, Econometric Society Summer Meetings 2012.

Program Committee Member, Econometric Society Winter Meetings 2012.

Affiliations:

Econometric Society, International Association for Applied Econometrics, American Economic Association.

Courses Taught:

Graduate:

Semi/Nonparametric Econometrics (2003-2005; 2007; 2010; 2013; 2015-2018; 2021; 2023)

Third Year Research Seminar (2005; 2024-2025)

Econometrics Workshop (2016, 2019, 2020, 2021; all yearlong)

Undergraduate:

Statistics and Probability (2004, 2005, 2007)

Econometrics (2010; 2015-2018)

Applied Econometrics (2007, 2008, 2011)

Cross Section and Panel Econometrics (2004, 2010, 2012, 2013, 2020, 2022)

University Service

Speaker at the 2025 Cornell Reunion

University Committees:

Cornell's Center for Data Science for Enterprise and Society, Executive Committee member, 2019-present.

Financial Policies Committee, 2023-2026.

University Lectures Committee, 2022-present.

University Hearing Board & University Review Board, 2021-2022.

Institute for the Social Sciences Advisory Committee member, 2015-2018.

Co-Chair: Revenue Enhancement Task Force, 2013-2014.

Committee for Reorganization of Economics at Cornell, 2010-2011.

IAEC Ad Hoc Committee, 2010-2011

Departmental Committees at Cornell:

Director of Graduate Studies, 2023-present.

Recruiting Committee Member, Operations Research and Information Engineering, 2024-2025.

Recruiting Committee Member, Department of Economics, 2022-23.

Recruiting Committee Member, Department of Statistics, 2020-21.

Recruiting Committee External Member, Policy Analysis and Management, 2019-20.

Recruiting Committee Chair (junior and senior), 2017-18.

Active Learning Initiative Committee Member, 2017.

Diversity Committee Member, 2017.

Associate Chair and Recruiting Committee Chair (junior and senior), 2012-13.

Recruiting Committee Member, 2008, 2010, 2016.

Placement Committee Chair, 2010-11.

Placement Committee Member, 2003-2006, 2009.

Dissertation committees (* denotes Committee (co-)Chair; first appointment in parentheses): In progress:

Dingyi Li; Yiqi Liu*; Brenda Quesada Prallon*; Yiwei Sun*; Sen Zeng*.

Completed:

Qiwei He (University of Edinburgh); Hyuk-soo Kwon (Chicago Harris School); Kyle Kuang* (University of Manchester); Abhishek Ananth* (Emory University QTM); Maura Coughlin* (Rice University); Matthew Thirkettle* (Rice University); Jeffrey Swigert (Southern Utah University); Miriam Larson-Koester* (Federal Trade Commission); Lin Xu (Joint Committee on Taxation); Sida Peng* (Microsoft Research); Debi Prasad Mohapatra (University of Massachusetts Amherst); Saisandeep Satyavolu; Shooshan Donogoulian (Wayne State University); Jun-Sung Kim* (Monash University); Alexander Rees-Jones (Wharton School University of Pennsylvania); Darcy Steeg Morris* (US Census Bureau); Brian Dillon (University of Washington Evans School of Public Policy and Governance); Joseph Price (Brigham Young University); Juan Carlos Chavez-Martin Del Campo (Universidad

de Guanajuato); Chingmei Cheng (US Department of Defense); Shuaizhang Feng (Shanghai University of Finance and Economics).

Honor Theses: Nicholas Hansen, BA 2020; Aixin Allison Jiang, BA 2018; Tyna Florentine Eloundou Nekoul, BA 2014; Jade Mandel, BA 2013; Jared Palmer, BA 2013; David Waks, BA 2008; Crystal Cun, BA 2007; Wee Lee Loh, BA 2005.