Angelo Mele

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CURRENT APPOINTMENTS

Associate Professor of Economics (*without tenure*), Johns Hopkins University, Carey Business School, *Aug 2018-Present*
Scientific Core, Hopkins Population Center, *May 2021-present*
Affiliate, Hopkins Population Center, *May 2017-present*
Affiliate Member, Institute for Data-Intensive Engineering and Science (IDIES) at Johns Hopkins, December *2017-present*

PREVIOUS APPOINTMENTS

Assistant Professor, Johns Hopkins University, Carey Business School, *Aug 2011-Aug 2018*

EDUCATION

University of Illinois at Urbana-Champaign, Champaign, IL USA
Ph.D., Economics, December 2011

New York University, New York City, NY USA
M.A., Economics, May 2005

Bocconi University, Milan, Italy
B.A., Economics (Summa cum Laude), February 2002

RESEARCH INTERESTS

Fields: Applied Econometrics, Labor Economics, Applied Microeconomics
Topics: Econometrics of network models, Economics of social interactions, Racial Segregation and Homophily, Computational Methods, Experiments in Networks

PUBLICATIONS

1. Homophily and Community Structure at Scale: An Application to a Large Professional Network (May 2023) with Juan Nelson Martinez Dahbura, Shota Komatsu, and Takanori Nishida, *AEA Papers and Proceedings 2023*

2. Approximate Variational Estimation for a Model of Network Formation (with Lingjiong Zhu) *January 2023*, *The Review of Economics and Statistics*, vol. 105, no 1, pages 113-124

3. Spectral estimation for large stochastic blockmodels with nodal covariates (October 2022), (with Lingxin Hao, Joshua Cape, Carey Priebe) (*forthcoming*), *Journal of Business and Economic Statistics*

4. A Structural Model of Homophily and Clustering in Social Networks (June 2022), *Journal of Business and Economic Statistics*, vol. 40, issue 3, pages 1377-1389

5. On spectral algorithms for community detection in stochastic blockmodel graphs with vertex covariates (May 2022) (with Cong Mu, Lingxin Hao, Joshua Cape, Avanti Athreya, Carey Priebe), *Transactions of Network Science and Engineering*, vol. 9, no 5, pages 3373-3384,

6. Does School Desegregation Promote Diverse Interactions? An Equilibrium Model of Segregation within Schools (May 2020), *American Economic Journal: Economic Policy*, vol. 12, issue 2, pages 228-257

7. A Structural Model of Dense Network Formation, (May 2017), *Econometrica*, vol. 85, issue 3, pages 825-850

8. Viral Altruism? Charitable Giving and Social Contagion in On-Line Networks (March 2016) (with Nicola Lacetera and Mario Macis), *Sociological Science*

9. Structural Models of Complementary Choices (May 2014), *Marketing Letters*, 25, 3, pp: 245-256 Springer (with Steve Berry, Ahmed Khwaja, Vineet Kumar, Andres Musalem, Kenneth C. Wilbur, Greg Allenby, Bharat Anand, Pradeep Chintagunta, W. Michael Hanemann, Przemek Jeziorski)

10. Poisson Indices of Segregation (January 2013), *Regional Science and Urban Economics*, 2013, vol. 43, issue 1, pages 65-85

WORKING PAPERS, SUBMITTED, REVISED

1. A Strategic Model of Software Dependency Networks (January 2023), (with Co-Pierre Georg)

2. Latent Communities in Employment Relations and Wage Distributions: A Network Approach (August 2022) (with Lingxin Hao, Avanti Athreya, Joshua Cape, Cong Mu and Carey Priebe), *submitted*

3. A model of inter-organizational network formation (January 2023) (with Shweta Gaonkar), *resubmitted to Journal of Economic Behavior and Organization*

4. A structural model of business card exchange networks (August 2021) (with Juan Nelson Martinez Dahbura, Takanori Nishida and Shota Komatsu)

5. A structural model of firm collaborations with unobserved heterogeneity (2021) (with Shweta Gaonkar and Michael Schweinberger)

6. Creativity and Market Success: Evidence from the movie industry (2020) (with Shweta Gaonkar), *Reject and Resubmit at Strategic Entrepreneurship Journal*

WORK IN PROGRESS

1. Spectral estimation of a dynamic network formation model (2022) (with Avanti Athreya, Joshua Cape, Cong Mu, Lingxing Hao and Carey Priebe)

2. A variational exchange algorithm for Bayesian estimation of ERGM models

3. Microeconomic foundations of a latent position network model

4. Scalable two-step algorithms for estimation of large network models

5. Network (video)games (with Micah Pollak and Phil Solimine)

INACTIVE WORKING PAPERS

Approximate Variational Inference for a Model of Social Interactions (December 2016)

Racial Segregation and Public School Expenditure (with Eliana La Ferrara)

Who's Afraid of the Big Bad Wolf? Do Pedophiles live close to schools? (September 2010)

SOFTWARE	**dinnet**: an R package for spectral estimation of dynamic networks models
	lighthergm: an R package for scalable estimation of Hierarchical ERGMs
	grdpg: an R package for estimation of generalized random dot product graphs with nodal covariates
	mfergm: an R package for variational approximations of (some) ergms
	netnew: R replication package for Mele (2017)
	segnet: R replication package for "Does School Desegregation Promote Diverse Interactions? An Equilibrium Model of Segregation Within Schools"

GRANTS	• IDIES Seed Grant, Johns Hopkins Institute for Data-Intensive Engineering and Science (with Co-Pierre Georg) $25000
	• Advanced Research Computing Support, Johns Hopkins Carey Business School 2022-2023, $5000
	• NSF Grant SES #1951005 (2020-2023), $550,000, with Lingxin Hao, Joshua Cape and Carey Priebe
	• Supplemental RA support 2020, Johns Hopkins Carey Business School, $3000
	• Teaching Innovation Award 2019, , Johns Hopkins Carey Business School, $2500
	• NET Institute Summer Grant 2018 (with Shweta Gaonkar), $3000
	• IDIES Seed Grant, Johns Hopkins Institute for Data-Intensive Engineering and Science (with Lingxin Hao and Gerard Lemson) $25000
	• Black and Decker Research Grant 2017, Johns Hopkins Carey Business School (with Shweta Gaonkar) $2500
	• Internal grant 2016, Johns Hopkins Carey Business School (with Shweta Gaonkar) $3000
	• NET Institute Summer Grant 2013, $3000, Net Institute, NYU Stern
	• NET Institute Summer Grant 2012, $7500, Net Institute, NYU Stern (with Nicola Lacetera and Mario Macis)
	• NIH Travel Grants, Add Health conference 2010
	• NET Institute Summer Grant 2010-2011, $3000, Net Institute, NYU Stern
	• R. W. Harbeson Dissertation Grant 2009-2011, UIUC, $2000
	• Robert Ferber Award 2008-2009, UIUC, $3000
	• Conference Travel Grants, UIUC, 2006-2010.

HONORS AND AWARDS	• R. W. Harbeson Dissertation Fellowship, 2009-2011, UIUC
	• E.B. McNatt Award for Research in Labor Economics, 2008-2009, UIUC
	• Young Spatial Econometrician Award 2008, Spatial Econometrics Association
	• Paul E. Boltz Fellowship, 2008-2009, UIUC
	• Hans Brems Award (Best Graduate Research Paper), 2007 and 2008, UIUC
	• List of Teachers ranked as Excellent by the students, Fall 2007, Spring 2008, UIUC
	• Summer Research Award, 2007, UIUC
	• Mac Cracken Scholarship, New York University, 2003-2005
	• Marco Fanno Scholarship, Associazione Marco Fanno - MedioCredito Centrale Bank, 2003-2004
	• Premio di laurea Roberto Franceschi, for the best honor thesis on social exclusion, poverty at the national and international level, Associazione Roberto Franceschi, 2003
	• Teaching fellowship at Bocconi University for Microeconomics (undergraduate) and Development Economics (advanced undergraduate), Sept 2002-Aug 2003
	• Gold medal, Bocconi University, 2002
	• Summa cum laude, Bocconi University, 2002

INVITED SEMINARS (INCLUDING SCHEDULED)	**2023**
	University of Pennsylvania (Philadelphia, PA)
	Bocconi University (Milan, Italy)
	2021
	University of Pennsylvania (Philadelphia, PA)
	2020
	University of Southern California
	West Virginia University
	2019
	University of Colorado Boulder (Boulder, CO)
	Cornell University (Ithaca, NY)
	Singapore Management University (Singapore)
	Chinese University of Hong Kong (Hong Kong)
	Sao Paulo School Economics (Brasil)
	Insper, Sao Paulo (Brasil)
	2018
	London School of Economics (London, UK)
	Florida State University (Tallahassee, FL)
	Catholic University of America (Washington DC)
	Northwestern University (Evanston, IL)
	2017
	University of Southern California - Economics (Los Angeles, CA)
	2016
	Boston University - Economics Dept. (Boston, MA)
	2015
	UC Berkeley - Economics Dept. (Berkeley, CA)
	2014
	Universite' de Laval (Quebec City, Canada)
	University of Chicago (Chicago, IL)
	University of Cagliari (Cagliari, Italy)
	University of Sassari (Sassari, Italy)
	2013
	University of Surrey (UK)
	2012
	Indiana University (Bloomington, IN)
	University of Maryland - Smith School of Business (College Park, MD)
	2011
	University of Notre Dame (South Bend, IN)
	University of Pennsylvania (Philadelphia, PA)
	Johns Hopkins University - Carey Business School (Baltimore, MD)
	Southern Methodist University (Dallas, TX)
	Federal Reserve Board (Washington, DC)
	Univ. du Quebec a Montreal (Montreal, Canada)
	2010
	Labor Economics Seminar UIUC (Urbana, IL)
	2007
	Econometrics Lunch Seminar UIUC (Urbana, IL)
	Labor Lunch Seminar UIUC (Urbana, IL)
CONFERENCES (INCLUDING SCHEDULED)	**2023**
	Southern Economics Association Annual Meeting 2023 (New Orleans, LA)

Conference on Labor Economics, Universite' de Laval (Laval, Canada)
Network Science in Economics 2023, Virginia Tech (Blacksburg, VA)
6th International Conference on Econometrics and Statistics - EcoSta 2023 (Tokyo, Japan)
American Economic Association Annual Meeting (New Orleans, LA)
2022
Barcelona Summer Forum - Networks (Barcelona, Spain)
Network Economics: Applications and Challenges
125th Anniversary of the Department of Economics, University of Illinois at Urbana-Champaign (Champaign, IL)
Network Science in Economics 2022, University of Chicago (Chicago, IL)
2021
European Winter Meeting of the Econometrics Society
Southern Economics Association Annual Meeting (Houston, TX)
Network Science in Economics 2021, University of Chicago (Chicago, IL)
2020
Econometric Society World Congress
2019
CMStatistics 2019 (London UK)
Network Econometrics Juniors' Conference 2019, Northwestern University (Evanston, IL, invited)
Network Science in Economics 2019, Indiana University (Bloomington, IN)
2018
Econometric Society Winter Meeting (Philadelphia, PA)
Network Science in Economics Conference (Nashville, TN)
Society of Labor Economists (SOLE) Annual meeting (Toronto, Canada)
North American Summer Meeting of the Econometric Society 2018 (UC Davis, CA)
International Association of Applied Economics (IAAE) Annual Conference (Montreal, Canada)
2018 International Conference on Computational Social Science (Evanston, IL)
NBER Summer Institute 2018 - Labor Studies (Cambridge, MA)
Annual Meeting of the Academy of Management (Chicago, IL)
Southern Economics Association Annual Meeting 2018 (Washington, DC)
2017
UIUC Econometrics Alumni Conference 2017 (Urbana, IL)
North American Regional Social Networks (NASN) Conference of the International Network for Social Network Analysis (INSNA) 2017 (Washington, DC)
2016
Conference on Econometrics and Statistics of Networks (Berkeley, CA)
2015
AEA Annual Meeting 2015 (Boston, MA)
UIUC Econometrics Alumni Conference 2015 (Urbana, IL)
ACM Conference - Workshop on Social and Information networks (Portland, OR)
2014
AEA Annual Meeting 2014 (Philadelphia, PA)
2013
Choice Symposium 2013 (Noordwijk, The Netherlands)
Conference on Bayesian Methods in Microeconometric Modeling (Caltech, CA)
Midwest Econometrics Group Annual Meeting (Indiana University, Bloomington IN)
Southern Economic Association Annual Meeting 2013 (Tampa, FL)
2012
UECE 2012 (Lisbon, Portugal)
Info-Metrics Conference on Econometrics of Networks (Washington, DC)
University of Maryland - Smith School of Business (College Park, MD)

North American Winter Meeting of the Econometric Society 2012 (Chicago, IL)
2011
INFORMS Annual Meeting 2011 (Charlotte, NC)
Conference on Networks in Cambridge (Cambridge, UK)
Public Economic Theory Meeting 2011 (Bloomington, IN)
SBIES 2011 (St. Louis, MO)
2010
NET Institute Conference (New York, NY)
Midwest Econometrics Group Meeting (St. Louis, MO)
Add Health Users Conference (Bethesda, MD)
SED Meeting (Montreal, Canada)
Behavioral and Quantitative Game Theory: Conference on Future Directions (Newport Beach, CA)
Midwest Graduate Student Summit on Regional, Population and Health Economics (West-Lafayette, IN)
2009
Washington University Graduate Students Conference (St. Louis, MO)
Econometric Society European Meeting (Barcelona, Spain)
2008
Spatial Econometrics Association Conference (New York, NY)
Econometric Society Summer Meeting (Pittsburgh, PA)
SOLE Conference (New York, NY)
Midwest Economic Association Conference (Chicago, IL)
2007
European Economic Association Conference (Budapest, Hungary)
La Pietra-Villa Mondragone Workshop 2007 (Florence, Italy)
European Society of Population Economics Conference (Chicago, IL)
2006
Washington University Graduate Student Conference (St. Louis, MO)

TEACHING

Johns Hopkins University, Carey Business School
   Master in Finance: Nonlinear Econometrics, Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024
   Master in Finance: Statistical Analysis, Fall 2018
   Global MBA: Quantitative Methods, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018
   Master in Finance: Economics for Decision Making, Fall 2014
   Global MBA: Networked Organizations, Spring 2012, Spring 2013, Spring 2014, Fall 2015, Fall 2016, Fall 2017
   Executive MBA: Networked Organizations, Summer 2012, Summer 2013, Summer 2014, Summer 2015

University of Illinois at Urbana-Champaign
   Graduate: Teaching Assistant, Microeconomic Theory, Fall 2009 and 2010
   Undergraduate: Teaching Assistant for Principles of Microeconomics, Business Statistics, Intermediate Microeconomic Theory, Labor Economics

New York University
   Teaching Assistant for Principles of Microeconomics 2004

Bocconi University
   Teaching assistant for Microeconomics and Development Economics 2002-2003

SHORT COURSES	Johns Hopkins University, Department of Sociology
	Guest Lecture, Computational Social Science, March 11, 2019
	Universita di Cagliari, Department of Economics
	Social and Economic Networks, July 10-13, 2017
CONFERENCES ORGANIZED	Network Economics: Applications and Challenges (sponsored by Sansan, Inc.), (virtual mini-conference), May 21st, 2022
REFEREE ACTIVITY	Journal of Political Economy, Quarterly Journal of Economics, Econometrica, Review of Economic Studies, Theoretical Economics, Journal of Business and Economics Statistics, Journal of Econometrics, Econometric Theory, The Review of Economics and Statistics, Journal of Applied Econometrics, Journal of Human Capital, International Economic Review, Quantitative Economics, Journal of the Royal Statistical Society: Series A, Journal of Economic Behavior and Organization, Economics Letters, Journal of Economic Theory, European Economic Review, Southern Economic Journal, Regional Science and Urban Economics, Economic Inquiry, Economics of Governance, Journal of Statistical Software, American Journal of Preventive Medicine, Review of Income and Wealth, Marketing Letters, Statistical Methods and Applications, Games
SERVICE	Member of Scientific Committee for the Eighth Annual Conference of the International Association for Applied Econometrics, London June 2022
	Member of the hiring committee, Post-doc in Applied Microeconomics, Johns Hopkins Carey Business School
	Member of the Re-entry committe, Johns Hopkins Carey Business School
	Member of Scientific Committee for the Eighth Annual Conference of the International Association for Applied Econometrics, (virtual) Rotterdam, Netherlands, June 2021
	Member of Scientific Committee for the Sixth Annual Conference of the International Association for Applied Econometrics, London June 2020
	Admission committee GMBA program, Johns Hopkins Carey Business School
	Member of Scientific Committee for the Fifth Annual Conference of the International Association for Applied Econometrics, Cyprus June 2019
	Member of Scientific Committee for the Fourth Annual Conference of the International Association for Applied Econometrics, Montreal Canada June 2018
	Coordinator of the Research Seminar Series, Johns Hopkins Carey Business School, 2016-2019
	Admission Committee Global MBA (member), Johns Hopkins Carey Business School, 2018-2019
	Member of Scientific Committee for the Fourth Annual Conference of the International Association for Applied Econometrics, Sapporo Japan June 2017
	Member of Scientific Committee for the Third Annual Conference of the International Association for Applied Econometrics, Milan June 2016
	Hiring Committe, Real Estate, Johns Hopkins Carey Business School 2015-2016
	Hiring Committee, Economics, Johns Hopkins Carey Business School 2015-2016
	Co-organizer of the Boneyard 2015 Econometrics Alumni Conference at UIUC, 2015
	Coordinator for Economics/Network of Carey Research Seminars, 2013-2016
	Coordinator for the Quantitative Econ Working Group, Johns Hopkins Carey Business School, 2014- present
	Admission Committee (member), Johns Hopkins Carey Business School, 2012-2014
	Hiring Committee (member), Johns Hopkins Carey Business School, 2012-present
	Dean Research Scholars Fellowship committee, Johns Hopkins Carey Business School

GMBA Admitted Students Mock class, 2012, 2013, 2014
Ad Hoc reviewer, Palgrave Macmillan, 2013
Ad Hoc reviewer, NSF, 2014

PhD committees
Tao Wang, JHU Economics, 2023
Cong Mu, JHU Applied Mathematics and Statistics, 2023 (placement: Microsoft)
Sung Ah Bahk, JHU Economics, 2020 (external member)
Ryutah Kato, JHU Economics, 2020 (external member)
Shaiza Qayyum, JHU Economics, 2018 (external member)
Mikhail Smirnov, JHU Economics, 2016 (external member)
Matthew White, JHU Economics, 2014 (external member)
Brian Phelan, JHU Economics, 2013 (external member)
James Lake, JHU Economics, 2012 (external member)

PROGRAMMING SKILLS	R, Python, Stata, Parallel Programming (MPI, MPICH), Fortran 90, Matlab, C (basic), UNIX, Latex, HTML, ArcGIS (basic), Condor Environment
LANGUAGES	Italian (native), English (fluent), French (basic)