

Omar Isaac Asensio

CONTACT INFORMATION

Georgia Institute of Technology
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ACADEMIC APPOINTMENTS

Assistant Professor, Georgia Institute of Technology, School of Public Policy, (Big Data and Policy focus), 2017-Present

Postdoctoral scholar, UCLA Institute of the Environment & Sustainability and UCLA Anderson School of Management Ziman Center, 2015-2017

CURRENT AFFILIATIONS

Institute for Data Engineering and Science ideas.gatech.edu
Machine Learning Center ml.gatech.edu
Strategic Energy Institute energy.gatech.edu
Climate and Energy Policy Laboratory cepl.gatech.edu

PROFESSIONAL/CONSULTING EXPERIENCE

Scientific Consultant, Los Angeles Better Buildings Challenge 2013-2015
Sr. R&D Engineer, Avery Dennison Corporation (NYSE:AVY) 2005-2009
 ◦ CEO Growth and Innovation Award, Dean Scarborough 2008
Research Chemist, International Solar Electric Technology, Inc. 2001-2005

EDUCATION

University of California Los Angeles (UCLA) Los Angeles, CA
Doctorate in Environmental Science & Engineering 2010-2015
Dissertation: *“Human Behavior and Intelligent Energy Metering Systems: Experimental Approaches”*
Ph.D. sequences in microeconomics, econometrics and economic history

University of Southern California (USC) Los Angeles, CA
M.S. Materials Engineering 2003-2005
B.S. Chemistry with a minor in Philosophy 1997-2002

PUBLICATIONS

1. **Asensio, O.I.** and Delmas, M.A. (2017) The effectiveness of US energy efficiency building labels. *Nature Energy*, 2: 17033.
Media: Washington Post, NPR, Agence France-Press, Breitbart, Yahoo! News
2. **Asensio, O.I.** and Delmas, M.A. (2016) The dynamics of behavior change: evidence from energy conservation. *Journal of Economic Behavior & Organization* 126(A): 196-212.
Academy of Management Best Paper Proceedings
Media: World Bank World Development Report 2015, National Affairs
3. **Asensio, O.I.** and Delmas M.A. (2015) Nonprice incentives and energy conservation. *Proceedings of the National Academy Sciences* 112(6): E510-E515.
Media: NPR, NBC News, CBS Radio, Economic Times, Yahoo! News
4. Delmas, M.A., Fischlein, M., **Asensio, O.I.** (2013) Information strategies and energy conservation behavior: A meta-Analysis of experimental studies 1975-2012. *Energy Policy* 61: 729-739.
Media: European Commission DG News Service
5. Kapur, V.K., Bansal, A., Le, P., **Asensio, O.I.** (2003) Non-vacuum processing of $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ solar cells on rigid and flexible substrates using nanoparticle precursor inks. *Proceedings of Symposium B, Thin Film Chalcogenide Photovoltaic Materials*, European Materials Research Society Spring Meeting, published in *Thin Solid Films* 431: 53-57.

PEER-REVIEWED CONFERENCE PAPERS

6. **Asensio, O.I.** and Walsh, S.E. (2018) Mobile apps for workplace charging: A big data field experiment in electric vehicles. Academy of Management Global Proceedings, Vol. Surrey 208 doi:10.5465/amgblproc.surrey.2018.0208.abs
7. Alvarez, K., Wenzel, E., Dror, A., and **Asensio, O.I.** (2018) Evaluating electric vehicle user mobility data using neural network based language models. *Transportation Research Board* annual meetings, 19-05863, Current Issues in Alternative Transportation Fuels and Technologies.

WORKING PAPERS

8. **Asensio, O.I.** with K. Alvarez, E. Wenzel, A. Dror, and C. Hollauer. Evaluating sustainable transportation infrastructure with real-time data from mobile platforms. *revisions requested at Nature Sustainability*
9. **Asensio, O.I.** with Alex Davis. Machine learning for policy analysis. Invited Perspective for *Nature Machine Intelligence*
10. **Asensio, O.I.** and Mi, X. Visualizing big data and machine learning analyses: a case in sustainable transportation infrastructure. *under review*
11. Thomas Morstyn and **Asensio, O.I.** Electric vehicle coordination platforms.

RESEARCH GRANTS

1. Georgia Tech Albany Hub, (PI, with D. Lam and C. Le Dantec) Esri, Amount \$378,000. AY 2019-2020.
2. Interdisciplinary Cooling Energy (ICE) working group planning grant (Co-I, with S. Yee, A. Fedorov, W. Gutekunst, M. Losego, S. Marder, D. Matisoff, R. Ramprasad, D. Ranjan, J. Reynolds, N. Stingelin, and Z. Zhang, Strategic Energy Institute, Amount \$35,000.
3. Computing Research Association, (with R. Cummings, J. Morgenstern and N. Boland) “Data Science for Social Good” planning workshop. Amount \$12,000.
4. Georgia Tech, Provost’s Fund for Excellence in Graduate Studies (PEGS) grant, Data Science for Social Good workshop (with R. Cummings, J. Morgenstern, N. Boland) Amount \$8,000.
5. GA Smart Communities Challenge, (PI, with City of Albany, GA) “Albany Housing Data Analytics Initiative” AY 2018-2019, Amount \$25,000 (\$50,000 to City of Albany).
6. Microsoft Research, (PI) “Data science and electric vehicle charging behavior: Experiments using Microsoft Azure cloud computing” AY 2017-2018, Amount \$20,000.
7. HIVES IRAD Program, Georgia Tech Research Institute (PI, with Rachel Cummings) “Behavioral privacy for military applications” AY 2018-2019, Amount \$25,000.
8. Georgia Tech Fire mini-seed grant (Co-PI, with Rachel Cummings), “Pricing Privacy: A Pilot Behavioral Study” AY 2017-2018, Amount \$1,250.
9. Anthony and Jeane Pritzker Family Foundation, (PI, with Sam Coogan) “Data driven electric vehicle charging infrastructure for Los Angeles” AY 2017-2018, Amount: \$150,000.
10. Rosalinde and Arthur Gilbert Foundation Program in Real Estate, Finance and Urban Economics: “A study of energy efficiency investment strategies in Los Angeles commercial real estate” AY 2015-2017, Amount: \$10,000.
11. Institute for Digital Research and Education “Reducing electric vehicle range anxiety: a quasi-experiment” AY 2016-2017, Amount: \$9,000.
12. Easton Technology Leadership Program “Incentives for technology adoption decisions” AY 2015-2016, Amount: \$5,000.
13. Environmental Solutions Venture Projects (ESVP) grants program “Human behavior and intelligent energy systems in the commercial buildings sector” AY 2014-2015, Amount: \$20,000.
14. University of California Center for Energy and Environmental Economics “Implementing intelligent energy metering systems in the commercial buildings sector” AY 2013-2014, Amount: \$17,000.

FELLOWSHIPS AND AWARDS

APPAM 40 for 40 Early Career Award, 2018.
Georgia Tech Class of 1969 Teaching Fellow 2018-2019
Georgia Tech SLS Course Development Grant, 2018.

UCLA Pritzker Distinguished Chair postdoctoral scholar, 2016-2017.
 UCLA IDRE postdoctoral computational fellowship, 2016-2017.
 SABE nominee for the Klaus J. Jacobs Research Prize, 2015.
 ONE-NBS Research Impact on Practice Award, Academy of Management, 2015.
 People's Choice Award, Alliance for Research on Corporate Sustainability, 2015.
 Best Dissertation finalist, Academy of Management ONE Division, 2015.
 Best Reviewer Award, Academy of Management ONE Division, 2014.
 Best Paper Award, Ivey/ARCS Ph.D. Sustainability Academy, 2014.
 NSF-AGEP Professional Development Award, UCLA, 2014.
 National Science Foundation (NSF) IGERT Research Fellowship, 2010-2015.
 American Economic Association (NSF-AEA) Summer Training Program, 2010.

TEACHING

Georgia Tech

Big Data and Public Policy	Spring 2019, 2018
Ph.D. methods course, cross-listed with the School of Economics	
Data Science for Public Policy	Fall 2018
Undergraduate methods course, B.S. in Public Policy	
Research Design in Policy Science	Spring 2019, Fall 2017
Core course, M.S. in Public Policy	

UCLA

Business Sustainability & the Environment, UCLA Anderson	Spring 2014
Executive MBA course (TA)	

Other Courses/Workshops

Fostering Innovation short course, ACS Leadership Institute
 Washington, DC (Feb 2008) Dallas (Jan 2008) Syracuse (Jun 2009)
 Boston (Aug 2010) Austin (Nov 2011) Dallas (Jan 2013)
 New Orleans (Apr 2013) Dallas (Jan 2014) Dallas (Jan 2015)
 Dallas (Jan 2016) Dallas (Jan 2017) Dallas (Jan 2018)

Fostering Innovation short course, BOOST Program
 U.S. State Department & ACS International Activities
 Bangkok, Thailand (Aug 2013)

SERVICE AND OTHER LEADERSHIP ROLES

Reviewer for *Journal of Public Policy Analysis and Management (JPAM)*, *Nature Energy*, *Journal of the Association of Environmental & Resource Economists (JAERE)*, *Resource & Energy Economics*, *Energy Economics*, *Energy Research & Social Science*, *Administrative Science Quarterly (ASQ)*, *Journal of Consumer Policy*, *Journal of Business Ethics*, *Ecological Economics*, *Environment & Behavior*, *Business & Society*, *Alliance for Research on Corporate Sustainability conference*, *Academy of Management Annual meetings*, *ONE and TIM Divisions*

Editorial Board

Journal of Environmental Studies and Sciences (JESS)

Review Committee

Behavioral Science and Policy Association (BSPA) 2018 annual meeting, Washington, DC
Academy of Management ONE Division Awards Team, Elected 2016-2018
AOM ONE Division Awards Chair, 2019

Public and Community Service

Leadership Advisory Board, American Chemical Society, Appointed 2018
Leadership Advisory Board (Associate), American Chemical Society, Appointed 2016-2017
Participant, The California Alliance

Institute Contributions

Graduate Committee (School-wide)
Ph.D. Quantitative Curriculum Committee (School-wide)
Ph.D. Core Comprehensive Exam Committee (School-wide)
Ph.D. Specialty Exam Committee, Energy & Environment (School-wide)
SLS Level I Faculty Affiliate (Institute-wide)
NSF REU Faculty Advisor, Civic Data Science 2018

INVITED PRESENTATIONS

2019: Princeton University, Summer Institute Computational Social Science, Oxford University, Oxford Martin School, Alliance for Research on Corporate Sustainability (ARCS) conference, UNC Chapel Hill

2018: Carnegie Mellon, AOM Big Data Conference, Surrey, UK, UC Berkeley California Alliance conference, Oxford Said Business School, AESS 2018 American University, U.S. Department of Energy Building Technologies Office, Washington, DC, Energy Policy Research Conference, APPAM Washington, DC, Oak Ridge National Lab webinar, Ford Global Headquarters, Global Data, Insights and Analytics group

2017: NYU Tandon, UCLA, Georgia Tech, Academy of Management Meetings Atlanta, APPAM Chicago, Multinational Enterprises and Sustainable Development (MESD) Conference

2016: UC Berkeley, Caltech, Georgia Tech, Darla Moore, Alliance for Research on Corporate Sustainability conference (Colorado), UC Berkeley Center for Causal Inference, Academy of Management Meetings Anaheim, AESS annual meeting, ESA annual meeting

2015: USC, Caltech, Academy of Management Meetings Vancouver, Alliance for Research on Corporate Sustainability Conference (Kellogg Northwestern), SPSP Sustainability pre-conference, California Institute for Energy Efficiency (CIEE) Berkeley, PG&E Strategic Research and Evaluation, Behavior Energy and Climate Change Conference Sacramento

2014: UC Berkeley, UCSD Rady, Carnegie Mellon, SJDM Long Beach, Academy of Management Meetings Philadelphia, Society for the Advancement of Behavioral Economics Conference Lake Tahoe, Behavior Energy Climate Change Conference Washington, DC

2013: Columbia, UC Santa Barbara, Behavior Energy and Climate Change (BECC) conference Sacramento

PERSONAL

Fluent in Spanish, basic Greek.

updated: 3/15/19