



Niklas Lollo

Energy and Resources Group
University of California, Berkeley

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EDUCATION

PhD Energy & Resources 2017-2020

University of California, Berkeley

"From the Inside-Out: Evaluating Data-Centric Private Governance"

Dissertation Committee: Dara O'Rourke (Chair), David Anthoff, Massimo Mazzotti

Designated Emphasis: Science & Technology Studies

MS Energy & Resources 2015-2017

University of California, Berkeley

"Productivity, Profits, and Pay: A Field Experiment Analyzing the Impacts of Compensation Systems in an Apparel Factory"

Thesis advisors: Dara O'Rourke and Max Auffhammer

BA Economics 2008-2012

University of California, Berkeley

PEER-REVIEWED JOURNAL PAPERS [\[Google Scholar\]](#)

3. [Niklas Lollo](#) and Dara O'Rourke, "Factory benefits to paying workers more: The critical role of compensation systems in apparel manufacturing", *PLoS ONE* **15**(2), e0227510 (2020).
2. Frances Moore, James Rising, [Niklas Lollo](#), Cecilia Springer, Valeri Vasquez, Alex Dolginow, Chris Hope, and David Anthoff, "Mimi-PAGE, an open-source implementation of the PAGE09 integrated assessment model", *Scientific Data* **5**, 180-187 (2018).
1. Dara O'Rourke and [Niklas Lollo](#), "Transforming Consumption: From Decoupling, to Behavior, to Systems Change for Sustainable Consumption", *Annual Reviews of Environment and Resources* **40**, 233-259 (2015).

PENDING MANUSCRIPTS

- [Niklas Lollo](#) and Dara O'Rourke, "The Impacts of the Higg Facility Environmental Module (FEM) on Apparel Factory Practices and Performance", In Preparation.

AWARDS & GRANTS

- 2017 NSF Graduate Research Fellowship *Honorable Mention* (\$130K)
- 2016 NSF NRT Data Science for the 21st Century Fellowship (\$30+K)
- 2016 UC Berkeley Institute for Research on Labor and Employment (\$15K, PI: Dara O'Rourke)

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- 2015 Charles K. Birdsall Fellowship (\$10K)
 - 2015 Precourt Fellowship for Behavior, Energy, and Climate Change Conference
 - 2015 C&A Foundation (\$163K, PI: Dara O'Rourke)
 - 2015 Tides Foundation (\$59K, PI: Dara O'Rourke)
 - 2015 UC Berkeley Center for Responsible Business (\$30K, PI: Dara O'Rourke)
 - 2010 Dean's List
 - 2009 National Champion University Club Soccer

RESEARCH EXPERIENCE

PhD Student

2017-present

University of California, Berkeley

- Living Wage intervention
 - Developed proposal with an apparel company for 2-year, multi-country, and multi-factory study to raise worker wages to a living wage. (Successful, yet declined)
- Empirical analysis of 2-year multi-stakeholder wage intervention in Thai clothing factory.
 - Panel data regression analysis using Difference-in-Difference design.
 - Four site visits working directly with factory and brand managers. One visit to brand headquarters.
 - Other skills: Project management, research design, and spreadsheet modeling.
 - **Paper published in PLoS ONE**
- Evaluation of Sustainable Apparel Coalition's Higg Index
 - Panel data analysis of 15,000 factory audits
 - Eight factory visits and interviews in Bangladesh and China
 - Survey of 80 factories
 - Other skills: Project management, research design, presentation.
 - **Paper in preparation**
- Hawaii Wildfire Interactive Webapp
 - Designed and programmed an [RShiny App](#) that maps historical wildfires, risk assessments, and provides fire preparedness guidance.
 - Worked with Hawai'i Wildfire Management Organization.
- Real-Time Health Monitoring
 - Worked with [Fair Tech Collective](#)
 - Designed and programmed dynamic RShiny App for citizen-science data analysis.
 - Project aiming to link Bay Area refinery pollution data to personal health outcomes.
- Open-source programming of PAGE integrated assessment model
 - Transcription of mathematical model from published papers.
 - Programming in Julia with Mimi framework.
 - **Paper published in Scientific Data**
- Cool Climate Network
 - Geographically weighted regression of US carbon footprint data at census block group level.

Research Associate

2013 – 2015

University of California, Berkeley

- Co-authored [paper](#) in *Annual Reviews of Environment and Resources* on sustainable consumption.
- Helped secure over \$200,000 in grants from C&A Foundation, Tides Foundation, and Center for Responsible Business
- Conducted literature review on data science for supply chain sustainability in support of a paper in [Science](#)
- Research and implementation for World Economic Forum Global Action Committee projects on behavior change and sustainability
- Devised and assisted pilot experiments on sustainable consumer behavior using GoodGuide platform

Research Assistant

2011 – 2012

University of California, Berkeley

- Conducted consumer sustainability literature reviews, which supported a [Boston Review article](#) and a [Journal of Industrial Ecology article](#)

PRESENTATIONS & PANELS

9. Fewer Rules, Better Governance? Understanding New Tactics in the Uncertain Quest for Clothing Global “Sustainability”, CSMTS Graduate Student Symposium, UC Berkeley, 5/19
8. Industrial Policy and Green Goods, Key Issues in the Current Global Economy, UC Berkeley, 4/19, Panel Discussant
7. Hawai’i Wildfire Webapp: Building Capacity Through Data Visualization, Hawai’i Wildfire Summit: South Kohala Coast, HI, 5/18
6. Hawai’i Wildfire Webapp, Berkeley Institute for Data Science Faire: Berkeley, CA, 5/18, Poster
5. Hawai’i Wildfire Webapp, DS421 Annual Symposium: Berkeley, CA, 5/18
4. The Many Hands in Sustainable Clothes, Bay Area High School Green Careers Conference: Berkeley, CA, 4/18
3. The Role of Business in Mitigating Climate Change, Earth Action Initiative: Berkeley, CA, 4/18, Facilitator
2. Identifying the Potential for Impact of Higg FEM, SAC Member Meeting: Bangalore, India, 5/17
1. A Historical Account of Genuine Accounts, Degrowth Conference: Budapest, Hungary, 8/16, Declined

DEPARTMENTAL WORK

- 2019-2020, Student Advocacy Committee on Equity and Inclusion
 - Helped change admissions process to advance equity goals.
 - Coordinated peer mentor program.

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- 2018-2019, Master's Curriculum Redevelopment
 - Successful proposal to redesign 4-course master's sequence on 5-person team.
 - 2016-2020 Board Member: Energy & Resources Group Alumni Network
 - 2018-: Initiated and grew LinkedIn and Facebook groups to 300 and 150 members.
 - 2016-2018: Developed alumni-student mentoring program that serves 15-20 students annually.
 - 2016-2020, Peer Mentor
 - Supported four graduate students transition to and navigate UC Berkeley.
 - 2017-2019, ERG Development Committee
 - Coordinated two Big Give donor-calling events.
 - ERG Admissions Committee (2x-years withheld for privacy)
 - 2015-2016, ERG Student Diversity Committee
 - Led design and coordination of first-ever Equity, Inclusion & Diversity training for all staff, researchers, students, and faculty members.
 - Wrote highly-commended NSF INCLUDES proposal to advance diversity in STEM fields.

TEACHING

UC Berkeley 3 semesters: 64 undergraduates, 16 graduate students

- **Spring 2020**
History C184D: Human Contexts and Ethics of Data Science
Head Graduate Student Instructor
 - Led weekly meetings of the teaching team (9 GSIs & 2 professors).
 - Developed grading rubrics for final projects and exams.
 - Edited and developed weekly teaching curricula.
 - Administrative work for course with 372 students.
 - Taught one section with 22 students.
- **Fall 2019**
History C184D: Human Contexts and Ethics of Data Science
Graduate Student Instructor - 42 students
- **Spring 2019**
IAS 250: Data Science for the 21st Century Partner Project Course
Graduate Student Instructor - 16 students
 - Curriculum, rubric, and syllabus development.
 - Feedback on assignments and presentations.
 - Organized guest speaker series.

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- **Spring 2012**
ERG 98/198: History of Economic Thought
Creator & Facilitator - 16 students
 - **Fall 2011**
Sociology 98/198: Sociology of YouTube
Facilitator - 30 students

CERTIFICATIONS, TRAININGS, & WORKSHOPS

- 2020 *Application in review* Certificate in Teaching and Learning in Higher Education
- 2019-2020 Teaching & Mentoring
 - Syllabus & Course Design (Alternative)
 - How Students Learn
 - Creating Inclusive Classrooms
 - Creating and Using Grading Rubrics
 - Developing a Statement of Teaching Philosophy
 - Peer Review of Statement of Teaching Philosophy
 - Teaching Observation by Faculty Member
 - Online ethics course
- 2019 California Science & Technology Studies Summer Retreat
- 2018 Contemplative Environmental Practice
- 2018 DS421 Science Communication Workshop
- 2017 Degrowth & Environmental Justice
- 2017 Data Carpentry
- 2016 Graduate Assembly Equity & Inclusion Certificate
- 2015 Future Earth Research Co-design Training
- 2015 Python, R for Data Science
- 2015 Computational Text Analysis
- 2015 Spatial Analysis in R, QGIS & ArcGIS

SYNERGISTIC ACTIVITIES

- **Data Science Consultant**
 - D Lab, UC Berkeley, 2018-2019: Supported students and faculty with coding in R, research design, and analysis.
- **Journal Referee**

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- Consumer Behaviour, Cleaner Production, Ecological Economics

- **Mentor**

- Enviromentorship, UC Berkeley, 2019: Mentored one environmental science undergraduate from an underrepresented group.

- **Volunteer**

- Chaparral House, 2019-: Led exercise activities and spent time with nursing home residents.
 - Insight Retreat Center, 2019-: Volunteer at monthly workdays
 - Conference volunteer: Society for the Advancement of Socio-Economics (2016), Slow Money (2011)

- **Radio Producer** (KALX, UC Berkeley, 2017): Produced four episodes of Method to the Madness about innovations at the interface between society and environment

- **Organizer** (Berkeley Flextime Initiative): Member of core organizing committee that successfully pushed for flexible work legislation in Berkeley

- **Meditation**

- 2019: Hosted weekly neighborhood meditations and discussions with 3-12 participants
 - Insight Retreat Center: 3 retreats of 4-7 days
 - Vipassana: 3 retreats of 10 days; volunteer for 2 other retreats
 - Spirit Rock: 1 retreat of 3 days

- **Dance Performances**

- 2019: UC Berkeley Dance Showcase
 - 2018: Joe Goode Annex, The Exploratorium, Fort Mason, Earth Action Initiative Conference (Choreographer), Pulitzer Arts Foundation (Stagehand)
 - 2017: Pro Arts Gallery, The Octopus Literary Salon, 63 Bluxome St.

REFERENCES

Dr. Dara O'Rourke orourke@berkeley.edu

Associate Professor, Environmental Science, Policy, and Management
University of California, Berkeley

Dr. David Anthoff anthoff@berkeley.edu

Assistant Professor, Energy & Resources Group
University of California, Berkeley

Dr. Margarita Boenig-Liptsin mboenigliptsin@berkeley.edu - Teaching Reference

Lecturer, Division of Data Sciences
University of California, Berkeley

Dr. Massimo Mazzotti mazzotti@berkeley.edu

Professor, History of Science
University of California, Berkeley

Dr. Richard Norgaard norgaard@berkeley.edu

COURSES

- **Graduate Methods**
 - Econometrics: Multiple Equation Estimation
 - Reproducible and Collaborative Data Science
 - Spatial Data Analysis
 - Social and Ecological Modeling
 - Environmental Problem Solving
 - Social Science Research Methods
- **Graduate Content**
 - Sociology of Globalization
 - Climate Change Economics
 - Environmental Engineering
 - History of Quantification
 - Energy & Society
 - Science & Technology Studies
 - Biopolitics
- **Graduate Other**
 - Science and Technology Studies Research Seminar
 - Pedagogy
 - Linear Algebra and Differential Equations
 - Academic Writing for Graduate Students
 - Book editing with Professor Richard B. Norgaard
 - Readings in Theravada Texts (at the Institute for Buddhist Studies with Gil Fronsdal & Diana Clark)
 - * 2019 Liberation and the Path to Liberation
 - * 2018 Connected Discourses
- **Undergraduate Economics**
 - Applied Econometrics to Development Projects
 - Econometrics
 - Behavioral Economics
 - International Monetary Economics
- **Undergraduate Political Economy**

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- Classical Political Economy
 - Ecological Economics
 - The Chinese Economy
 - Environmental Justice
 - Development Studies
 - Capitalisms and Cultures
 - Individual Morality and Social Justice

OTHER WORK EXPERIENCE

Regulatory Analyst

2013

Advanced Energy Economy, San Francisco

- Expanded backend content, surveyed members and assisted design of [PowerPortal](#).
- Data compilation and chart preparation for presentation of advanced energy industry data to Midwestern PUC commissioners.
- Research and writing for [article](#) on utility energy-efficiency behavior-change programs.
- Market research, due-diligence, quality assurance and roll-out preparation for [DocketDash](#).
- Analyzed energy markets, state regulation and industry trends for internal and external use.

Economic Justice Intern

Winter 2012-2013

The Agenda Project, New York, NY

- Produced video content and managed TopWonks database.

Community Development Coordinator

2011

B Lab, San Francisco, CA

- Developed pilot program for prospect outreach. Performed initial due-diligence on companies and managed data entry into Salesforce.
- Managed 1.5K prospect accounts. Outreach to 1K companies to secure 5 certifications.
- Data-driven presentation to CEO Jay Coen Gilbert.
- Assisted development of university outreach program.

English Tutor

2010

OY English, Shenzhen, People's Republic of China

- Taught preparatory courses for SAT and GRE to 20 students.
- Personal tutor.