

ROSS BEPLER

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EDUCATION

Ph.D., Public Policy

Primary Field: Energy and Environmental Policy

Georgia Institute of Technology, Ivan Allen College, Atlanta, Ga

Expected May 2019

GPA: 4.0/4.0

Bachelor of Science in Electrical Engineering

Clemson University, Calhoun Honors College, Clemson, South Carolina

General and Departmental Honors — Summa Cum Laude

May 2014

GPA: 4.0/4.0

RESEARCH INTERESTS

Integration of Distributed Energy Resources

- Assessing operational and financial impacts of DER penetration.
- Diffusion of national, state and local DER policy.
- Equity, efficiency, and political feasibility in clean energy policy design.

Electricity Rate Design, Markets, and Consumer Behavior

- Impacts of policy change on electricity rates and markets.
- Wholesale market and customer rate design.
- Consumer response to technology and information.

PUBLICATIONS AND PRESENTATIONS

Publications

- Peak Shifting and Cross-Class Subsidization: The Impacts of Solar PV on Changes in Electricity Costs, (2017). (with Erik Johnson, Chris Blackburn, Ben Staver, Marilyn Brown, and Daniel Matisoff) *Energy Policy*, Volume 106, July 2017, Pages 436-444.
- Impacts of Solar Power and Energy Efficiency on Electricity Rate and Bills, (2016). (with Marilyn Brown, Daniel Matisoff, Ben Staver, Erik Johnson, and Chris Blackburn) *Proceedings of the 2016 ACEEE Summer Study on Energy Efficiency in Buildings*.
- Considering the Role of Natural Gas in the Deep Decarbonization of the U.S. Electricity Sector, (2016). (with Wesley Cole, Owen Zinaman, and Jeffrey Logan) NREL/TP-6A50-64654. National Renewable Energy Laboratory (NREL), Golden, CO (US).
- Taking Advantage of America's Wind Resources: Implementing a Predictable Incentive through a Long Term Energy Policy, (2012). *Journal of Engineering and Public Policy*.

Presentations

- Career, Research, and Innovation Development Conference January 2018
Identifying Barriers to the Deployment of Widespread Dynamic Electricity Pricing
- Energy Transitions Forum July 2017
Distributed Solar Policy and Economics
- Association for Public Policy and Management Fall Research Conference November 2016
The Impact of Solar Penetration on Utility Rates and Bills
- Georgia Tech Energy Expo March 2016
Impacts of Distributed Solar on Utility Revenues and Customer Bills

TEACHING EXPERIENCE

Teaching Assistant

- Microeconomic Theory - PUBP 8211 Spring 2018
PhD level foundations of microeconomics
- Research Design in Policy Science - PUBP 6112 Fall 2017
Masters level research design
- Organizational Leadership - PUBP 4833 Spring 2015
Undergraduate leadership innovation in the organizational context
- Foundations of Leadership - PUBP 4140 Spring 2015, Fall 2014
Undergraduate level contemporary issues and perspectives on leadership
- Groups, Teams & Problems - PUBP 4803 Fall 2014
Undergraduate Grand Challenges Course

Grand Challenges Facilitator

Fall 2015 - Spring 2017

- Mentored teams of undergraduates navigating complex problem spaces

Guest Lecturer

- Energy Tech: Options & Policy Fall 2017
Topic: Role of Distributed Resources in Evolving Grid
- Electricity Regulation and Policy Fall 2017
Topic: Policy and Economics of Solar
- Government of the U.S. Fall 2017
Topic: U.S. Energy Outlook
- Energy Technology and Policy Spring 2016
Topic: Economics of Electricity Generation

FELLOWSHIPS AND AWARDS

Fellowships

- Georgia Tech President's Fellowship Fall 2014 - Present
- NSF IGERT Fellowship: Nanomaterials for Energy Storage and Conversion Fall 2015 - Fall 2017
- Clemson University National Scholars Program Fall 2010 - Spring 2014

Awards

- Outstanding Graduate Teaching Assistant: School of Public Policy Spring 2018
- Outstanding Graduate Student: School of Public Policy Spring 2017
- NSF Graduate Research Fellowship - Honorable Mention Spring 2014
- Clemson University Faculty Scholarship Award Spring 2014
Awarded to the member of the graduating class with the highest scholastic achievement
- Samuel B. Earle Outstanding Senior in Engineering Spring 2014
Awarded to the most outstanding senior in Clemson University's College of Engineering
- John W. Estey Outstanding Power and Energy Society Scholar Fall 2013
Awarded to the most outstanding IEEE PES scholar in each of 6 U.S. IEEE regions
- Moorman Outstanding Junior in Engineering Spring 2013
Awarded to the most outstanding junior in Clemsons University's College of Engineering
- U.S. Department of Education Presidential Scholar 2010
Awarded to the two most outstanding graduating high school seniors in each U.S. state

WORK EXPERIENCE

Energy Efficiency and Renewable Energy Intern

Summer 2017

Georgia Public Service Commission

- Evaluated Value of Solar studies for development of Renewable Cost Benefit Framework.
- Negotiated whole-building data standard and developed EM&V standard for DSM programs.
- Assessed REDI program RFP bids and new community solar and simple solar tariffs.

Strategic Energy Analysis Intern

Summer 2015

National Renewable Energy Laboratory

- Modeled the role of natural gas in deep decarbonization pathways.
- Explored the impact of Distributed Generation on customers, utilities, and regulators.
- Investigated opportunities for innovative post 2020 carbon reduction.

Transmission Planning Intern

Summer 2014

Duke Energy

- Updated Master Tie List in PSSE Eastern Interconnection reliability models to ensure compatibility when regional model flows are integrated into larger interconnection model.
- Calculated Simultaneous Import Limits to determine availability of uncommitted generation.
- Evaluated system for new FERC standards on cyber and physical security (PRC and CIP). Identified critical assets to prevent cascading outages using N-1 contingencies in PSSE software.

Science Undergraduate Laboratory Internship

Summer 2013

National Renewable Energy Laboratory

- Formulated comprehensive policy primer on California A.B. 32s cap-and-trade program.
- Updated transmission database for ReEDS model by cataloguing new transmission builds for each RTO. Calculated capacity and length specs based on route maps and line voltages.

Washington Internships for Students of Engineering

Summer 2012

Institute for Electrical and Electronics Engineers

- Policy Associate for IEEE in Washington D.C. conducting literature review on wind energy policy. Met with government officials in science and tech fields to discuss tax incentives and carbon penalties.

CAMPUS INVOLVEMENT AND SERVICE

Teams For Tech Advanced Graduate Fellow

Fall 2017 - Present

School of Public Policy Graduate Committee (Ph.D. rep)

Fall 2016 - Present

Public Policy Student Association (President 2016-2017)

Spring 2015 - Present