

Austin L Brown, Ph.D.

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Professional Goal

To support better connections between research and policy for clean energy and transportation.

Experience

- 2017- Executive Director, Policy Institute for Energy, the Environment, and the Economy, University of California, Davis.
I lead a team that leverages world-class university expertise and engages directly with decision-makers to deliver credible, relevant, and timely information and analysis to inform better energy and environmental policy.
- 2019- Assistant Adjunct Professor, Civil and Environmental Engineering, UC Davis
Taught: Transportation Policy; Strategies of Environmental Administration and Management
- 2017- Partner, Data Science and Mobility, Valence Strategic
I provide expertise and support Valence's mission to enable new business models, disrupt markets, or reconfigure the relationship between humans, technology and the physical world.
- 2015-2017 Assistant Director for Clean Energy and Transportation, White House Office of Science and Technology Policy (previously Senior Policy Analyst).
I led policy efforts on transportation, clean energy, energy efficiency, and climate mitigation. I was a thought leader on federal electric vehicle efforts and contributed to all White House efforts to advance clean energy and vehicle automation technology.
Awarded: Office of Science and Technology Policy Award for Excellence (2015). Secretary's Achievement Award (2016), Department of Energy.
- 2012- Adjunct Faculty, Johns Hopkins University, Energy Policy and Climate.
I teach Transportation Policy in a Carbon Constrained World to master's level students, covering vehicles, fuels, transportation systems, and federal, state, and local policy.
- 2010-2017 Project Leader, National Renewable Energy Laboratory, Washington, DC (previously Senior Analyst).
I led major analysis projects for the Department of Energy, including portfolio analysis to estimate and increase the impacts of R&D investments. I conceived of and managed work streams at a funding level of \$1-3 million per year, with a focus on energy and transportation technologies.
Awarded: Secretary's Honor Award (2015), Department of Energy. Staff Award for Performance (2014) and President's Award (2013), National Renewable Energy Laboratory.
- 2008-2010 AAAS Science and Technology Policy Fellow, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy
Awarded: Secretary's Appreciation Award (2010), Department of Energy. Award for Special Service (2010), Department of Energy.

Education

- 2009 Environmental and Natural Resource Economics and Econometrics II, USDA Graduate School
- 2002-2007 Ph.D., Biophysics, Stanford University
Awarded: American Heart Association Graduate Fellowship (2004-2006)

1998-2002 B.S., Physics, Harvey Mudd College (with Honors)

Selected Publications

Fulton, L., **Brown, A.**, Compostella, J. Generalized Costs of Travel by Solo and Pooled Ridesourcing vs. Privately Owned Vehicles, and Policy Implications. *UC Davis Institute of Transportation Studies* (2020).

Brown, A., Safford, H., Sperling, D. Empowering the New Mobility Workforce, Chapter One - Historical perspectives on managing automation and other disruptions in transportation. *Elsevier* (2019).

Brown, A., Fuller, S., Gregory, J. State-Of-The-Knowledge White Paper Series: How Zero-Emission Vehicle Incentives and Related Policies Affect the Market. Institute of Transportation Studies, University of California, Davis (2019), Research Report UCD-ITS-RR-19-07

Safford, H., **Brown, A.** How to bring science into politics. *Nature Careers* (2019)

Taiebat, M., **Brown, A.**, Safford, H., Qu, S., and Xu, M. A Review on Energy, Environmental, and Sustainability Implications of Connected and Automated Vehicles. *Environmental Science and Technology* (2018)

Brown, A. and Sperling, D., Forum: 3 Revolutions in Transportation, *Environmental Management Magazine* (2018).

White House Office of Science and Technology Policy Lead, Quadrennial Energy Review Second Installment: Transforming The Nation's Electricity System (2017).

Brown, A. Transport emissions: All hail robocabs, *Nature Climate Change* No. 5 pp. 804 (2016)

Brown, A., *et al.*, Estimating Renewable Energy Economic Potential in the United States: Methodology and Initial Results, Technical Report NREL / TP-6A20-64503 (2015).

Contributing Author, Quadrennial Technology Review. U.S. Department of Energy (2012) and **Lead Author**, Transportation and Fuels chapters, update (2015).

Brown, A., Gonder, J., and Repac, B.; An Analysis of Possible Energy Impacts of Automated Vehicles, Chapter, *Road Vehicle Automation*. (2014).

Vimmerstedt, L; **Brown, A.**; *et al.*, Potential Reductions in Emissions and Petroleum Use in Transportation: Perspectives from the Transportation Energy Futures Project, *Journal of the Transportation Research Board* No. 2375 pp. 37-44 (2013).

Skills

Presentation: Over three hundred speaking engagements, examples available on request.

Data science: Python, Octave, Igor, R. Teaching Assistant, General Assembly, 2015-2016.

Leadership and Outreach

2019- Handling Editor, Transportation Research Record

2019- Vice Chair, DOE SMART Mobility Consortium Executive Advisory Board

2014- Committee Member, Transportation Research Board of the National Academies, Committee on Transportation Energy

2012-2014 Lead Reviewer, International Panel on Climate Change Working Group III, Chapter 6

2012 Organizer, ARPA-E Energy Innovation Summit

Interests

Public speaking – to spread excitement about technology, clean energy, and automation.

Running – to challenge myself and continually improve.

Cooking – to have all of the fun of science, with food.

Scuba diving and travel – to appreciate the wider world and be inspired to preserve it.