Jessica R. Lovering

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Education

	University of California, Berkeley	Berkeley, CA
2006	B.A. Astrophysics	
	University of Colorado, Boulder	Boulder, CO
2010	M.S. Astrophysics and Planetary Science	
	University of Colorado, Boulder	Boulder, CO
2012	M.S. Environmental Studies, Energy Policy	
	Carnegie Mellon University	Pittsburgh, PA
2020	PhD Engineering & Public Policy	

Employment

2020-Present	**Fastest Path to Zero Initiative** Senior Visiting Fellow, helping develop tools for equitable siting of advanced nuclear.	Ann Arbor, MI
2019-Present	**Energy for Growth Hub** Non-Resident Fellow, writing and speaking about nuclear energy development in developing economies.	Washington, DC
2020-2025	**Good Energy Collective** Co-founder and Executive Director, developing progressive nuclear energy policy.	Washington, DC
2012-2019	**The Breakthrough Institute** Director of Energy, managed the energy research program and studied nuclear energy policies. Supervised summer research fellows and junior staff.	Oakland, CA

Teaching Experience

2020-2021 **University of California, Santa Barbara** Santa Barbara, CA
Instructor for 100 student undergraduate course on energy and the environment.

2011-2012 **UC Boulder, Renewable & Appropriate Energy Institute** Boulder, CO
Created a graduate course on nuclear power from interdisciplinary perspective. Co-taught the course in the spring of 2012 with physics faculty. I developed curriculum, gave lectures, and organized field trips.

2008-2012 **UC Boulder, Astrophysics and Plan. Sci. Dept.** Boulder, CO
Taught laboratory sections for college introductory astronomy course. Wrote pre-lab lectures and facilitated labs. Led recitation sections for an introductory astronomy course. Wrote worksheets and group activities, graded homework, essays, and exams. Organized grades.

Refereed Publications

Lovering J. A Techno-Economic Evaluation of Microreactors for Off-Grid and Microgrid Applications. *Sustain Cities Soc*; 95. DOI: 10.2139/ssrn.4293007.

Stokes LC, Franzblau E, Lovering JR, et al. Prevalence and predictors of wind energy opposition in North America. *Proc Natl Acad Sci U S A* 2023; 120: 1–8.

Lovering J., Swain M., Blomqvist L., Hernandez R.R. Land-use intensity of electricity production and tomorrow's energy landscape. *PLoS ONE* 17 (2022)

Lovering, J. R., Abdulla, A. & Morgan, G. Expert assessments of strategies to enhance global nuclear security. *Energy Policy* 139, 111306 (2020).

Lovering, J. R., Yip, A. & Nordhaus, T. Apples and oranges: Comparing nuclear construction costs across nations, time periods, and technologies. *Energy Policy*, Vol. 101 (February 2017)

Lovering, J. R., Yip, A. & Nordhaus, T. Historical construction costs of global nuclear power reactors. *Energy Policy* 91, 371–382 (2016).

Non-Refereed Publications

Toth, Jackie, **Jessica Lovering**, and Suzanne Baker. "Opportunities for Coal Communities Through Nuclear Energy: An Early Look," *Good Energy Collective*. December 2021.

de Kirby K, **Lovering J**. “A Socially Sustainable Future for Nuclear Energy in Emerging Markets.” *The Breakthrough Institute* 2021.

“Why the United States Should Partner with Africa to Deploy Advanced Reactors.” By **Jessica Lovering** and Kenton de Kirby. *Issues in Science and Technology.* Winter 2019

Beyond Yucca Mountain: Decentralization and Innovation for US Nuclear Waste Management. By Jameson McBride, **Jessica Lovering**, and Ted Nordhaus. The Breakthrough Institute, 2019.

Atoms for Africa. By A. Sah, **J. Lovering**, O. Maseli, & Saxena, A. Center for Global Development (April 2018)

Planting the Seeds of a Distributed Nuclear Revolution: The Case for Expedited Licensing and Commercialization of Micronuclear Reactors. **J. Lovering**, W. Murray, J. Neeley, S. Nelson, and T. Nordaus. The Breakthrough Institute, R Street, ClearPath (September 2018)

How to Make Nuclear Innovative. **J.R. Lovering**, L. King, T. Nordhaus. The Breakthrough Institute (2017)

How to Make Nuclear Cheap. T. Nordhaus, **J.R. Lovering**, M. Shellenberger. The Breakthrough Institute (2013)

Awards and Prizes

First place team in the USAEE 2018 Student Case Competition
2017 Recipient of the John and Claire Bertucci Fellowship
2018 Recipient of Carnegie Mellon University’s Graduate Presidential Fellowship

Selected Presentations

- Lightning talk at the Whitehouse Summit on Nuclear Energy, 11/2015
- Presentation at Idaho National Laboratory’s Disruptive Technologies Symposium, 7/2015
- Panel presentation at the Institute for Energy Economics Japan’s International Nuclear Energy Symposium in Tokyo, 5/2015
- Two-time speaker on the Opening Keynote Plenary at the American Nuclear Society annual meeting, 11/2014 and 11/2020.
- Speaker at Howard-Baker Forum’s US-Japan Roundtable, 12/2014
- Dozens of university colloquia at University of California, Berkeley, University of Michigan, University of Wisconsin, Oregon State University, Pennsylvania State University.

Selected Workshop Participation

- MIT's Future of Nuclear study 2016-2018
- Idaho National Laboratory's Nuclear Innovation Workshop, February 2015
- DOE's Quadrennial Technology Review workshop, December 2014
- UN Sustainable Development Solutions Network's Deep Decarbonization Pathways Project workshops, Spring 2014

Languages

English, native
Swedish, intermediate (B2 on the CEFR scale)