

## Jason Frost, Research Associate

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### PROFESSIONAL EXPERIENCE

**Synapse Energy Economics Inc.**, Cambridge, MA. *Research Associate*, August 2018 – Present

- Conducts research and provides consulting on a wide range of energy sector issues.

**Lawrence Berkeley National Laboratory**, Berkeley, CA. *Materials Science Researcher*, June 2017 – June 2018

- Developed software to accelerate discovery of improved thermoelectric materials for solid state conversion of heat to electricity under the guidance of Dr. Anubhav Jain.
- Implemented a new integration algorithm to more correctly calculate particle mobility.

**Stanford University Department of Electrical Engineering**, Stanford, CA. *Intern*, Summer 2016

- Searched for materials with rapidly changing dielectric functions and little loss, infinitely anisotropic materials, and permittivity near zero materials.

**MIT Kavli Institute for Astrophysics and Space Research**, Cambridge, MA. *Intern*, Summer 2015

- Modeled polarization laboratory experiments in Python.
- Modeled atmospheric absorption of soft X-rays and matched quasar jet data with theory.
- Co-authored two papers that have been published.

**Marblehead School Committee and Electric Department**, Marblehead, MA. *Solar Initiative Creator/Director*, 2011 – 2013

- Researched and pitched solar power purchase power agreement. Requested and assessed proposals.

### EDUCATION

**Stanford University**, Stanford, CA: Bachelor of Science in Physics, 2018.

- Researched optimization of on-campus electric vehicle charging and quantified the resulting benefits. Co-authored paper submitted for publication.

### SKILLS

- Programming languages: Python, Julia, C, Matlab
- Linear and nonlinear optimization

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## **PUBLICATIONS**

Glick, D., F. Ackerman, J. Frost. 2019. *Assessment of Duke Energy's Coal Ash Basin Closure Options Analysis in North Carolina*. Synapse Energy Economics for the Southern Environmental Law Center.

Camp, E., B. Fagan, J. Frost, D. Glick, A. Hopkins, A. Napoleon, N. Peluso, K. Takahashi, D. White, R. Wilson, T. Woolf. 2018. *Phase 1 Findings on Muskrat Falls Project Rate Mitigation*. Synapse Energy Economics for Board of Commissioners of Public Utilities, Province of Newfoundland and Labrador.

Allison, A., R. Wilson, D. Glick, J. Frost. 2018. *Comments on South Africa 2018 Integrated Resource Plan*. Synapse Energy Economics for Centre for Environmental Rights.