

Brian Sergi

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(484) 332-4181 | briansergi@gmail.com

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| EXPERIENCE | <i>National Renewable Energy Laboratory</i> Research engineer in power system modeling Golden, CO | Aug. 2019 - present |
| | <i>The Science & Technology Policy Institute</i> Science policy fellow Washington, DC | Aug. 2012 - June 2014 |
| | <i>The Breakthrough Institute</i> Breakthrough Generation research fellow Oakland, CA | June 2012 - Aug. 2012 |
| | <i>Argonne National Laboratory</i> Science Undergraduate Laboratory Intern Lemont, IL | May 2011 - Aug. 2011 |

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| EDUCATION | <i>Carnegie Mellon University</i> Ph.D. in Engineering & Public Policy Pittsburgh, PA | Aug. 2014 - May 2019 |
| | <ul style="list-style-type: none">• Thesis: Integrating climate and health damages in decision-making for the electric power sector• Thesis committee: Inês Azevedo, Alex Davis, Nick Muller, Peter Adams, Allen Robinson, Steven J. Davis | |
| | <i>Georgetown University</i> B.S. in Science, Technology & International Affairs (<i>summa cum laude</i>) Washington, DC | Aug. 2008 - May 2012 |

JOURNAL ARTICLES

- [5] A. Abdulla, P. Vaishnav, B. Sergi, and D. G. Victor, “Limits to deployment of nuclear power for decarbonization : Insights from public opinion”, *Energy Policy*, vol. 129, pp. 1339–1346, 2019. [Online]. Available: <https://doi.org/10.1016/j.enpol.2019.03.039>.
- [4] B. Sergi, I. Azevedo, T. Xia, A. Davis, and J. Xu, “Support for Emissions Reductions Based on Immediate and Long-term Pollution Exposure in China”, *Ecological Economics*, vol. 158, pp. 26–33, 2019. [Online]. Available: <https://doi.org/10.1016/j.ecolecon.2018.12.009>.
- [3] B. Sergi, M. Babcock, N. Williams, J. Thornburg, A. Loew, and R. Ciez, “Institutional influence on power sector investments: A case study of on- and off-grid energy in Kenya and Tanzania”, *Energy Research and Social Science*, vol. 41, 2018. [Online]. Available: <https://doi.org/10.1016/j.erss.2018.04.011>.
- [2] B. Sergi, A. Davis, and I. Azevedo, “The effect of providing climate and health information on support for alternative electricity portfolios”, *Environmental Research Letters*, vol. 13, no. 2, 2018. [Online]. Available: <https://doi.org/10.1088/1748-9326/aa9fab>.

- [1] B. Sergi, R. Parker, and B. Zuckerman, "Support for International Collaboration in Research: The Role of the Overseas Offices of Basic Science Funders", *Review of Policy Research*, vol. 31, no. 5, pp. 430–453, 2014. [Online]. Available: <http://doi.wiley.com/10.1111/ropr.12088>.

TECHNICAL REPORTS

- [4] J. Lovering, M. Shellenberger, and T. Nordhaus, "How to Make Nuclear Cheap: Safety, Readiness, Modularity, and Efficiency", The Breakthrough Institute, Tech. Rep., 2014. [Online]. Available: <https://thebreakthrough.org/articles/how-to-make-nuclear-cheap>.
- [3] Office of Science and Technology Policy, "National Plan for Civil Earth Observations", Washington, DC, Tech. Rep., 2014. [Online]. Available: <https://www.usgs.gov/media/files/national-plan-civil-earth-observations>.
- [2] S. Howieson, E. Sedenberg, B. Sergi, and S. Shipp, "Department of Energy Technology Maturation Programs", The IDA Science & Technology Policy Institute, Tech. Rep., 2013. [Online]. Available: <https://tinyurl.com/tfs9vo6>.
- [1] S. Howieson, B. Sergi, and S. Shipp, "Department of Energy Agreements for Commercializing Technology", The IDA Science & Technology Policy Institute, Tech. Rep., 2013. [Online]. Available: <https://tinyurl.com/quwq98b>.

CONFERENCES

Sergi, B., Davis, S.J., Muller, N., Robinson, A., Adams, P., **Azevedo, I.**, Marshall, J., "Aligning Climate and Health Benefits of Power Plant Siting and Retirement Decisions". Presentation, American Geophysical Union. San Francisco, CA, Dec. 9-13, 2019.

Sergi, B., Davis, S.J., Muller, N., Robinson, A., Adams, P., Azevedo, I., Marshall, J., "Aligning Climate and Health Benefits of Power Plant Siting and Retirement Decisions". Presentation, United States Association for Energy Economics. Denver, CO, Nov. 3-6, 2019.

Goteti, N.S., Hittinger, E., Sergi, B., Azevedo, I., "How Does Energy Storage Affect the Generation and Revenue of Existing Generation Technologies?". Presentation, United States Association for Energy Economics. Denver, CO, Nov. 3-6, 2019.

Sergi, B., Davis, S.J., Muller, N., Robinson, A., Adams, P., Azevedo, I., "Aligning Climate and Health Benefits of Power Plant Siting and Retirement Decisions". Presentation, Energy Policy Research Conference. Boise, ID, Sept. 29-Oct. 1, 2019.

Sergi, B., Azevedo, I., Davis, S.J., Muller, N., "Transboundary health damages of air pollution in the U.S". Presentation, United States Association for Energy Economics. Washington, DC, Sept. 24-26, 2018.

Sergi, B., Davis, S.J., Muller, N., Robinson, A., Adams, P., Azevedo, I., "Integrating climate and health objectives to inform clean energy siting in capacity expansion modeling". Presentation, International Energy Workshop. Gothenberg, Sweden, June 19-21, 2018.

Sergi, B., Azevedo, I., Xu, J., Xia, T., Davis, A., "Using Discrete Choice Methods to Evaluate Public Preferences for Tradeoffs in Health, Climate, and Economic Benefits from Electricity Generation in China." Presentation, Western Economic Association International. San Diego, CA, June 25-29, 2017.

Sergi, B., Davis, A., Azevedo, I., "Assessing Public Perceptions of Energy Tradeoffs with Discrete Choice Analysis." Presentation, Behavior, Energy, and Climate Change Conference. Baltimore, MD, Oct. 19-21, 2016.

Sergi, B., Davis, A., Azevedo, I., "Understanding public perceptions of tradeoffs in climate, health, and energy using discrete choice analysis." Presentation, Association for Environmental Studies and Sciences, Washington, D.C., June 8-10, 2016.

Sergi, B., Davis, A., Azevedo, I., "The impact of climate change and air pollution information on support for CO2 emissions regulations." Poster, United States Association for Energy Economics, Pittsburgh, PA, Oct. 25-28, 2015.

Sergi, B., Parker, R.A., Zuckerman, B.L., "Support for International Collaboration in Science: The Role of Basic Research Funding Agencies International Offices." Presentation, Atlanta Conference on Science and Innovation Policy, Sep. 25-27, 2013.

GRANTS & FELLOWSHIPS

Bertucci Graduate Fellowship: \$20,000 + travel expenses Dec. 2017

National Science Foundation East Asia and Pacific Summer Institute (EASPI) Summer Fellowship: \$5,000 + travel expenses June 2016

Steinbrenner Institute for Environmental Education and Research Graduate Research Fellowship: Approx. \$44,000 Aug. 2015 - May 2016

TEACHING

Teaching Assistant, Climate Change Mitigation Fall 2018
Ph.D. and Master's level course (20 students)

- Designed and taught lectures on wind and nuclear energy
- Designed final course project on modeling emissions in PJM

Student Research Advisor 2017 - 2018

- Mentored a Master's level and an undergraduate student

Teaching Assistant, Quantitative Methods for Policy Analysis Spring 2017
Ph.D. and Master's level course (25 students)

- Developed lessons on data visualization
- Designed and taught lesson on sensitivity analysis in R and Excel

Executive Experience Mentor, Pittsburgh SciTech 2016 - 2017

- Mentored a high school student on designing and constructing a simple wind turbine

Director, SUCCEED Program 2016 - 2018

Summer Center for Climate, Energy, and Environmental Decision Making

- Educational outreach program for high school students (20) and teachers (10)
- Coordinated recruitment of student and teacher participants
- Developed program schedule and curriculum
- Organized field trip to Bruce Mansfield coal power plant
- Oversaw students during the completion of their final project
- Provided lesson on power plants, including hands-on demonstrations

Future Faculty Program Participant, Eberly Center 2016 - 2018

- Participated in seminars/workshops on improving teaching and communication
- Underwent a formal teaching observation and evaluation (Spring, 2016)

ACADEMIC SERVICE

Journal reviewer

- Journal of Environment, Development and Sustainability
- Sustainable Futures

Professional associations

- United States Association for Energy Economics

MEDIA COVERAGE

"Linking air pollution to climate change in Chinese policy." Carnegie Mellon University College of Engineering News, March 2019, <https://engineering.cmu.edu/news-events/news/2019/03/18-air-pollution-chinese-policy.html>.

"US customers prepared to pay 40% more for cleaner electricity." Physics World-IOP Publishing, Aug. 2018, <https://physicsworld.com/a/us-customers-prepared-to-pay-40-more-for-cleaner-electricity/>.

"Steinbrenner Institute Research Videos: Research Overview." Steinbrenner Institute for Environmental Education and Research, March 2017, https://www.youtube.com/watch?v=8_0pXc3JGRg.

HONORS & AWARDS

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| 3 Minute Thesis Semifinalist Carnegie Mellon University | April 2018 |
| Best Presentation Steinbrenner Institute for Environmental Education and Research Colloquium | May 2016 |
| Honorable Mention National Science Foundation Graduate Research Fellowship Program | April 2016 |
| Named "Future Influencer in Energy" Siemens AG | March 2014 |
| Science, Technology, and International Affairs Award Georgetown University School of Foreign Service | May 2012 |
| Phi Beta Kappa Honor Society Georgetown University | May 2011 |
| Eagle Scout Boy Scouts of America | April 2008 |

SKILLS

Programming *Advanced* Python, R, PYOMO optimization package; *working knowledge* GAMS, Matlab, Analytica
Software PLEXOS, SAInt, Sawtooth (Lighthouse) Survey Software, Microsoft Office products (Word, Excel, PowerPoint)
Languages English (native), Spanish (proficient), French (beginner)

ACTIVITIES & VOLUNTEER WORK

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| Volunteer Interviewer Georgetown Alumni Admissions Program | 2015 - present |
| Treasurer Carnegie Mellon Energy Club | 2016 - 2018 |
| Case Volunteer Case San Jose | 2017 |
| Chief of Staff Model U.N. National Collegiate Security Conference | 2011 |