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# PRIYA L. DONTI

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## EDUCATION

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**Carnegie Mellon University**, Pittsburgh, PA, USA 2016–present  
Ph.D., Computer Science Dept. and Dept. of Engineering & Public Policy  
Advisors: Zico Kolter, Inês Azevedo

**Harvey Mudd College**, Claremont, CA, USA 2011–2015  
B.S. Computer Science and Mathematics, Emphasis in Environmental Analysis  
Graduated with High Distinction, GPA: 3.93

## SELECTED HONORS AND AWARDS

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MIT Technology Review “35 Innovators Under 35” (global list) 2021  
Best Paper Runner-Up, ACM Int’l Conf. on Future Energy Systems (ACM e-Energy) 2021  
Winner - Lightning Talks Competition, Duke Energy Data Analytics Symposium 2020  
Best Paper Honorable Mention, International Conference on Machine Learning (ICML) 2019  
Best Poster, Power and Energy Conference at Illinois (PECI) 2019  
Highlighted Paper Award, NeurIPS AI for Social Good workshop 2018  
Computing Research Association (CRA) Outstanding Undergraduate Award Finalist 2014

## SELECTED FELLOWSHIPS AND GRANTS

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Siebel Scholars Program 2021  
US Department of Energy (DOE) Computational Science Graduate Fellowship 2017–2021  
US National Science Foundation Graduate Research Fellowship 2015–2017  
Thomas J. Watson Fellowship 2015–2016  
Udall Undergraduate Scholarship Honorable Mention 2014  
Harvey Mudd President’s Scholarship 2011–2015

## PUBLICATIONS

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### UNDER REVIEW

#### **Aligning artificial intelligence with climate change mitigation**

Preprint; under review at *Nature Climate Change*

Lynn H. Kaack, **Priya L. Donti**, Emma Strubell, George Kamiya, Felix Creutzig, David Rolnick

#### **Employing Adversarial Robustness Techniques for Large-Scale Stochastic Optimal Power Flow**

Under review at the *Power Systems Computation Conference*

Aayushya Agarwal, **Priya L. Donti**, J. Zico Kolter, Larry Pileggi

### FULL PAPERS

#### **Adversarially Robust Learning for Security-Constrained Optimal Power Flow**

Forthcoming in *Advances in Neural Information Processing Systems (NeurIPS) 2021*

**Priya L. Donti\***, Aayushya Agarwal\*, Neeraj Vijay Bedmutha, Larry Pileggi, J. Zico Kolter

#### **Machine Learning for Sustainable Energy Systems**

*Annual Review of Environment and Resources* (2021)

**Priya L. Donti**, J. Zico Kolter

#### **Enforcing Policy Feasibility Constraints through Differentiable Projection for Energy Optimization**

*ACM International Conference on Future Energy Systems (ACM e-Energy) 2021*

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Bingqing Chen\*, **Priya L. Donti\***, Kyri Baker, J. Zico Kolter, Mario Bergés  
🏆 *Best paper runner-up* at ACM e-Energy 2021

**DC3: A learning method for optimization with hard constraints**

*International Conference on Learning Representations (ICLR) 2021*

**Priya L. Donti\***, David Rolnick\*, J. Zico Kolter

**Enforcing robust control guarantees within neural network policies**

*International Conference on Learning Representations (ICLR) 2021*

**Priya L. Donti**, Melrose Roderick, Mahyar Fazlyab, J. Zico Kolter

**Tackling Climate Change with Machine Learning**

David Rolnick, **Priya L. Donti**<sup>†</sup>, Lynn H. Kaack, Kelly Kochanski, Alexandre Lacoste, Kris Sankaran, Andrew Slavin Ross, Nikola Milojevic-Dupont, Natasha Jaques, Anna Waldman-Brown, Alexandra Luccioni, Tegan Maharaj, Evan D. Sherwin, S. Karthik Mukkavilli, Konrad P. Kording, Carla Gomes, Andrew Y. Ng, Demis Hassabis, John C. Platt, Felix Creutzig, Jennifer Chayes, Yoshua Bengio  
Forthcoming in *ACM Computing Surveys* (2021). [Preprint published 2019.]

<sup>†</sup>Co-editor of full paper, and sole author of *Electricity Systems* section.

**SATNet: Bridging deep learning and logical reasoning using a differentiable satisfiability solver**

*International Conference on Machine Learning (ICML) 2019*

Po-Wei Wang, **Priya L. Donti**, Bryan Wilder, and J. Zico Kolter

🏆 *Best paper honorable mention* at ICML 2019 (top 1% of accepted papers)

**Matrix Completion for Low-Observability Voltage Estimation**

*IEEE Transactions on Smart Grid* (2019)

**Priya L. Donti**, Yajing Liu, Andreas J. Schmitt, Andrey Bernstein, Rui Yang, Yingchen Zhang

**How Much Are We Saving after All? Characterizing the Effects of Commonly Varying Assumptions on Emissions and Damage Estimates in PJM**

*Environmental Science & Technology* (2019)

**Priya L. Donti**, J. Zico Kolter, Inês Lima Azevedo

**Task-based End-to-end Model Learning in Stochastic Optimization**

*Advances in Neural Information Processing Systems (NeurIPS) 2017*

**Priya L. Donti**, Brandon Amos, J. Zico Kolter

POLICY REPORTS

**Climate Change and AI: Recommendations for Government Action**

*Global Partnership on AI (GPAI) Report* (2021)

Peter Clutton-Brock\*, David Rolnick\*, **Priya L. Donti\***, Lynn H. Kaack\*, et al.

**Artificial Intelligence and Climate Change: Opportunities, Considerations, and Policy Levers to Align AI with Climate Change Goals**

*Heinrich Böll Foundation E-Paper* (2020)

Lynn H. Kaack, **Priya L. Donti**, Emma Strubell, David Rolnick

WORKSHOP PAPERS

**An adversarially robust approach to security-constrained optimal power flow**

*ML for Engineering Modeling, Simulation, and Design (ML4Eng) workshop at NeurIPS 2020*

Neeraj Vijay Bedmutha, **Priya L. Donti**, J. Zico Kolter

**Forecasting Marginal Emissions Factors in PJM**

*Tackling Climate Change with Machine Learning workshop at NeurIPS 2020*

Amy Wang, **Priya L. Donti**

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## **A Call for Universities to Develop Requirements for Community Engagement in AI Research**

*Position paper at the CHI 2020 Fair & Responsible AI Workshop*

Emily Black, Joshua Williams, Michael A. Madaio, **Priya L. Donti**

## **Inverse Optimal Power Flow: Assessing the Vulnerability of Power Grid Data**

**Priya L. Donti**, Inês Lima Azevedo, J. Zico Kolter

🏆 *Highlighted paper* at the AI for Social Good workshop at NeurIPS 2018

🏆 *Best poster* at the Power and Energy Conference at Illinois (PECI) 2019

## **Predicting the Quality of User Experiences to Improve Productivity and Wellness**

*Proceedings of the Twenty-Ninth AAAI Conference* (poster abstract, 2015)

**Priya L. Donti**, Jacob Rosenbloom, Alex Gruver, James C. Boerkoel Jr.

## **Exploring Active and Passive Team-Based Coordination**

*Proceedings of the AAAI 2014 Fall Symposium on AI for HRI* (2014)

**Priya L. Donti**, James C. Boerkoel Jr.

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## **SELECTED PROFESSIONAL SERVICE**

### **Climate Change AI, Co-founder and Chair** (2019–present)

Lead organization to catalyze impactful work in climate change and machine learning via workshops, grants programs, educational initiatives, community-building platforms, and policy engagement.

### **Catalyst Cooperative, Advisory Board Member** (2020–present)

Advise initiative aimed at increasing the usability and accessibility of public energy data.

### **Creative Destruction Lab, Lab Scientist** (2020–present)

Provide guidance to startups and perform technical evaluations in CDL-Paris climate stream.

### **CMU Computer Science Faculty Hiring Committee, Student Representative** (2020–2021)

Participated in the evaluation and hiring of faculty candidates.

### **CMU Computer Science PhD Admissions, AI Area Reader and Diversity Analyst** (2019)

Evaluated applications, analyzed diversity, presented recommendations to departmental leadership.

### **OurCS, Student Organizer** (2017, 2019)

Co-organized three-day research-focused workshop for undergraduate women in computer science.

### **CMU Computer Science PhD Admissions Open House, Student Organizer** (2017)

Co-organized talks and activities for students admitted to the CMU Computer Science PhD program.

### **CMU Computer Science Dept. Doctoral Review Committee, Member** (2017–present)

Serve on official advisory committee to the Department Head and the Director of the PhD Program.

## **Reviewing**

Reviewer (papers): International Conference on Machine Learning (ICML; 2021 top 10% reviewer), Conference on Neural Information Processing Systems (NeurIPS; 2020 top 10% reviewer), International Conference on Learning Representations (ICLR), International Conference on Artificial Intelligence and Statistics (AISTATS), Proceedings of the National Academy of Sciences (PNAS), IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Smart Grid, IEEE COINS, Women in Machine Learning (WiML) Workshop, NeurIPS/ICML/ICLR workshops (ML4D series, ML4Eng, Differentiable Programming, Tackling Climate Change with Machine Learning series)

Meta-reviewer (papers): Tackling Climate Change with Machine Learning workshop series

Reviewer (grants): Vinnova AI in the Service of Climate, ICLEI AI4Cities

Process Chair (grants): Climate Change AI Innovation Grants program

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## EXPERIENCE

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- DeepMind**, *Research Scientist Intern*, Remote Jun–Nov 2021
- Led research on physics-informed deep learning methods for weather forecasting.
  - Advised on company-wide Climate & Sustainability initiatives.
- National Grid ESO**, *Consultant*, Wokingham, UK Jun–Jul 2019
- Implemented machine learning methods for granular forecasting of electricity load (at the grid supply point level), which were deployed UK-wide.
- National Renewable Energy Lab**, *PhD Intern*, Golden, CO, USA May–Aug 2018
- Conducted research on matrix completion methods for distribution system voltage estimation.
- Thomas J. Watson Fellowship**, *Watson Fellow*, Global Jul 2015–Aug 2016
- Conducted expert interviews on next-generation power systems in five countries (Germany, India, South Korea, Japan, and Chile), as part of a year-long fellowship.
- Harvey Mudd College**, *Undergraduate Researcher*, Claremont, CA, USA Jan 2014–Jul 2015
- Led the “Productivity and Wellness Pal” research project, which aimed to provide individualized, data-driven recommendations to improve student productivity and wellness.
- PotaVida, Inc.**, *Global Clinic Team Member*, Claremont, CA, USA Sep 2014–May 2015
- Enhanced PotaVida’s low-cost solar water disinfection device as part of Global Clinic, a year-long senior capstone project at Harvey Mudd College.
- Crowdy, Inc.**, *Lead Software Engineer*, Claremont, CA, USA Sep 2013–Aug 2014
- Developed iOS app for Crowdy, an event-based social networking startup.
- Google**, *Engineering Intern*, Mountain View, CA, USA May–Aug 2013
- Implemented web and Android app functionality for PACO, a user experience surveying tool.
- Harvey Mudd Games Team**, *Undergraduate Researcher*, Claremont, CA, USA Jun–Aug 2012
- Created and tested educational games for elementary and middle school students.

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## SELECTED PROGRAM ORGANIZATION

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- Grants Program: Climate Change AI Innovation Grants Program** (co-lead, process chair)  
2M USD global grants program to fund research in climate change and machine learning, 2021–2022
- Panel: AI for Climate Action** (co-lead organizer, moderator)  
At the *United Nations Climate Change Conference (COP26)* (German Pavilion), Nov 2021
- Conference: International Symposium on Sustainable Systems and Technology** (theme chair)  
Co-chair of *Computational Tools for Sustainability* track, Jun 2021
- Workshop: Tackling Climate Change with Machine Learning** (co-organizer)  
At the *Conference on Neural Information Processing Systems (NeurIPS)*, Dec 2020
- Workshop: Machine Learning for Engineering Modeling, Simulation, and Design** (co-organizer)  
At the *Conference on Neural Information Processing Systems (NeurIPS)*, Dec 2020
- Conference: TEDxClimateChangeAI** (lead organizer)  
Held as part of Countdown, TED’s initiative on climate change, Oct 2020
- Workshop: Tackling Climate Change with Machine Learning** (lead organizer)  
Five-day workshop at the *International Conference on Learning Representations (ICLR)*, Apr 2020

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**Workshop: Tackling Climate Change with Machine Learning** (lead organizer)

At the *Conference on Neural Information Processing Systems (NeurIPS)*, Dec 2019

**Panel: AI Applications in Climate Mitigation and Adaptation** (co-lead organizer, moderator)

At the *United Nations Climate Change Conference (COP25)* (Chile Pavilion), Dec 2019

**Conference: CompSustNet Doctoral Consortium** (lead organizer)

Computational Sustainability Network annual conference, Oct 2019

**Seminar Series: CompSust Open Graduate Seminar (COGS)** (lead organizer)

Virtual webinar for Computational Sustainability Network, 2018–2020

**Workshop: Climate Change: How Can AI Help?** (co-organizer)

At the *International Conference on Machine Learning (ICML)*, Jun 2019

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## SELECTED PUBLICITY

**News Items Podcast with John Ellis**, *How A.I. Can Help Us Fight Climate Change*, Sep 2021

**Bloomberg**, *Artificial Intelligence Could Dramatically Speed Up Climate Action*, Jul 2021

**MIT Technology Review**, *35 Innovators Under 35*, Jun 2021

**The Interchange podcast**, *Beyond Forecasting: Artificial Intelligence Is a Powerful*

*Decarbonization Tool*, Feb 2020; and *How A.I. Will Revolutionize Climate Tech*, Jun 2021

**Future of Life Institute podcast**, *Tackling Climate Change with Machine Learning*, Oct 2019

**ScienceDaily**, *Are we underestimating the benefits of investing in renewable energy?*, Oct 2019

**National Geographic**, *How artificial intelligence can tackle climate change*, Jun 2019

**MIT Technology Review**, *Here are 10 ways AI could help fight climate change*, Jun 2019

**Pittsburgh Post-Gazette**, *Pittsburgh libraries join initiative to protect data*, Apr 2017

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## TEACHING

**Carnegie Mellon Future Faculty Program**

Engaging in multi-semester training program for course design and pedagogy (2019–present).

**Guest Lecture: Physics-Informed ML in the Electric Power Sector**, Hertie School

Teaching session on machine learning and electric power to policy students (upcoming).

**Tutorial: Tackling Climate Change with Machine Learning**, On Deck Climate Tech Fellowship

Taught basics of machine learning to climate tech entrepreneurs (Mar 2021, Aug 2021).

**Guest Lecture: Climate Change and Machine Learning**, Terra.do

Taught basics of machine learning and climate change to a tech audience (Jan 2021, May 2021).

**Tutorial: Climate Change 101 for ML Practitioners**, ICLR 2020 climate change workshop

Taught basics of climate change to machine learning researchers (Apr 2020).

**Volunteer Instructor: TechNights**, Carnegie Mellon University

Taught session on logic puzzles to middle school girls (Feb 2020).

**Guest Lecture: Climate Change and Machine Learning**, Winchester-Thurston High School

Taught basics of machine learning and climate change to a high school class (Nov 2019).

**Teaching Assistant: Graduate Artificial Intelligence**, Carnegie Mellon University

Wrote homework and exam questions, held office hours, and graded work (Spring 2018 semester).

**Teaching Assistant: Artificial Intelligence**, Harvey Mudd College

Held office hours and graded work (Fall 2014 and Spring 2015 semesters).

**Teaching Assistant: Algorithms**, Harvey Mudd College

Held office hours and graded work (Spring 2015 semester).

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**Writing Center Consultant**, Harvey Mudd College

Provided feedback on student papers and presentations, ran skills workshops (Sep 2012–May 2015).

## STUDENTS MENTORED

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**Thomas Wright**, B.S. student at McGill University (2021–present)

Topic: Fast machine learning approximations to unit commitment in electric power systems.

Co-supervised with David Rolnick.

**Neeraj Vijay Bedmutha**, M.S. student at Carnegie Mellon University (2020–2021)

Topic: Adversarially robust learning for security-constrained DC optimal power flow.

Published workshop paper at ML4Eng (NeurIPS 2020), follow-on full paper at NeurIPS 2021.

**Marissa Liu**, B.S. student at Western University (2020–2021)

Topic: Task-based end-to-end deep learning models for forecasting marginal emissions factors.

Undergraduate thesis.

**Amy Wang**, B.S. student at Western University (2019–2021)

Topic: Exploring machine learning and optimization methods for forecasting marginal emissions factors.

Undergraduate thesis, published workshop paper at Tackling Climate Change with ML (NeurIPS 2020).

## INVITED TALKS AND PANELS

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Conference on AI for People, *Tackling Climate Change with Machine Learning*, Nov 2021

McGill University, *Enforcing robust control guarantees within neural network policies*, Nov 2021

Institute of Analytics Professionals of Australia, *Tackling Climate Change with Machine Learning*, Nov 2021

Goethe Institute Festival: When Machines Dream the Future, *Panel: Alternative AI Futures?*, Nov 2021

Georgetown Law, *Panel: AI's Role in Addressing and Exacerbating Climate Change*, Oct 2021

Chilean Association of Women in AI, *Opportunities for AI in Tackling Climate Change*, Oct 2021

CMU CEIC Annual Meeting, *Adversarially Robust Learning for N-k SCOPF*, Oct 2021

North Carolina State University, *Tackling Climate Change with Machine Learning*, Oct 2021

ARPA-E DIFFERENTIATE, *Incorp. power system physics into deep learning via implicit layers*, Oct 2021

Agoria “AI in Energy,” *ML for climate change mitigation & adaptation in electric power*, Oct 2021

Africa Climate Week, *Panel: Responsible Use of Artificial Intelligence for Climate Action*, Sep 2021

The Good AI, *Panel: Applying AI to Tackle the Climate Crisis* (moderator), Sep 2021

Myst AI, *Incorporating power system physics into deep learning via implicit layers*, Sep 2021

GIZ, *ML for climate change mitigation & adaptation in the electric power sector*, Aug 2021

UNDP Bootcamp on AI for the SDGs, *Opportunities for AI in Tackling Climate Change*, Aug 2021

EmTech MIT, *AI for Sustainable Energy Systems*, Aug 2021

DOE CSGF Annual Program Review, *Bridging deep learning and electric power systems*, Jul 2021

Princeton ZERO Lab, *Incorporating power system physics into deep learning via implicit layers*, Jun 2021

Electric Power Research Institute, *Methodological challenges for ML in power systems*, May 2021

CMU DEI seminar, *Climate Change: A Key Consideration for Responsible and Equitable CS*, Apr 2021

AMLD AI & Sustainable Energy, *Incorp. power system physics into deep learning via implicit layers*, Apr 2021

ICLR Responsible AI workshop, *Climate Change: A Key Consideration for Responsible AI*, Apr 2021

ICLR Practical ML for Developing Countries workshop, *Panel: COVID-19 and Climate Change*, Apr 2021

The Globe and Mail, *Panel: Climate Change and AI*, Apr 2021

Lawrence-Livermore National Lab, *Incorp. power system physics into deep learning via implicit layers*, Apr 2021

Columbia Venture Community conference, *Panel: Climate Change, Data, Analytics, and AI*, Mar 2021

Harvey Mudd College “Sus+X” speaker series, *Panel: Career Paths in Sustainability*, Feb 2021

Observer Research Foundation, *AI and Climate Change: A multi-faceted relationship*, Feb 2021

Voices of Data Science at UMass Amherst, *Panel: Data Science for the Common Good*, Feb 2021

Environmental Law Institute, *AI and Climate Change: A Multi-faceted Relationship*, Feb 2021



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BERC (Berkeley) Energy Summit, *Panel: Big Data and Climate Change*, Feb 2021  
 Global Engagement & Empowerment Forum, *Panel: Opportunities for AI in Climate Change*, Feb 2021  
 Climate Crisis AI Hackathon, *Incorporating physics and domain knowledge into deep learning*, Jan 2021  
 UofT AI Conference, *Incorporating physics and domain knowledge into deep learning*, Jan 2021  
 Heinrich Böll virtual briefing, *How artificial intelligence could help mitigate climate change*, Dec 2020  
 The Algo at University College London, *Tackling Climate Change with Machine Learning*, Dec 2020  
 ML@San Jose State University, *Panel: Saving Our Planet: Climate, Energy, & AI*, Oct 2020  
 CMU CEIC Annual Meeting, *Inverse OPF: Assessing the Vulnerability of Power Grid Data*, Oct 2020  
 Energy Innovation Network Enspire, *Tackling Climate Change with Machine Learning*, Sep 2020  
 Global Indian International School, *Tackling Climate Change with Machine Learning*, Jul 2020  
 ACM GECCO GreenAI workshop, *Tackling Climate Change with Machine Learning*, Jul 2020  
 CogX, *Panel: Accelerating Adoption of AI for Climate*, Jun 2020  
 Engineers for a Sustainable World DigiCon, *Tackling Climate Change with Machine Learning*, Apr 2020  
 Clean Energy Leadership Institute, *Tackling Climate Change with Machine Learning*, Apr 2020  
 Microsoft Research, *Tackling Climate Change with Machine Learning*, Dec 2019  
 CMU AI Seminar, *Tackling Climate Change with Machine Learning*, Nov 2019  
 University of Massachusetts, *Tackling Climate Change with Machine Learning*, Oct 2019  
 CMU CEIC Annual Meeting, *Matrix Completion for Low-Observability Voltage Estimation*, Oct 2019  
 CMU CEIC Annual Meeting, *All models are wrong; let's make them useful*, Oct 2018  
 CompSust Open Graduate Seminar, *Inverse Optimal Power Flow*, Oct 2018  
 National Renewable Energy Lab, *Optimization and ML for distribution system state estimation*, Aug 2018  
 CMU CEDM Annual Mtg., *Char. the uncertainty in damage reductions from interventions in PJM*, May 2018  
 CMU CEIC Annual Meeting, *Characterizing Marginal Emissions Factors in PJM*, Oct 2017  
 Instituto Superior Técnico, *Task-based ML & Assessing Effects of Power System Interventions*, Jun 2017  
 Pingree School Commencement (commencement speaker), Jun 2019  
 Harvey Mudd College Convocation (alumni keynote), Aug 2017  
 Harvey Mudd College Convocation (student keynote), Sep 2013

## CONTRIBUTED TALKS AND POSTERS

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EECS Rising Stars, *Poster: Incorporating Power System Physics into Deep Learning via Implicit Layers*, Oct 2021  
 ACM e-Energy, *Enforcing Policy Feasibility Constraints through Diff. Proj. for Energy Opt.*, Jun 2021  
 ICLR, *Poster: DC3: A learning method for optimization with hard constraints*, Apr 2021  
 ICLR, *Poster: Enforcing robust control guarantees within neural network policies*, Apr 2021  
 NeurIPS ML4Eng workshop, *Poster: An adversarially robust approach to SCOPF*, Dec 2020  
 NeurIPS climate change workshop, *Poster: Forecasting Marginal Emissions Factors in PJM*, Dec 2020  
 Duke Energy Data Analytics Symposium, *Inverse OPF: Assessing the Vulnerability of Grid Data*, Nov 2020  
 CompSustNet Doctoral Consortium, *Tackling Climate Change with Machine Learning*, Oct 2020  
 ISSST, *Inverse Optimal Power Flow: Assessing the Vulnerability of Power Grid Data*, Jun 2020  
 CMU Symposium on AI and Social Good, *Tackling Climate Change with Machine Learning*, Apr 2020  
 CompSustNet Doctoral Consortium, *Tackling Climate Change with Machine Learning*, Oct 2019  
 CMU CEDM Seminar, *Matrix Completion for Low-Observability Voltage Estimation*, Sep 2019  
 DOE CSGF Annual Meeting, *Poster: Matrix Completion for Low-Observability Voltage Estimation*, Jul 2019  
 ICML, *Poster: SATNet: Bridging DL and logical reasoning using a differentiable satisfiability solver*, Jun 2019  
 CMU Energy Week, *Poster: Inverse Optimal Power Flow*, Mar 2019  
 Power and Energy Conference at Illinois (PECI), *Poster: Inverse Optimal Power Flow*, Feb 2019  
 NeurIPS AI for Social Good workshop, *Inverse Optimal Power Flow*, Dec 2018  
 WiML Workshop, *Poster: Task-based End-to-end Model Learning in Stochastic Optimization*, Dec 2018  
 NeurIPS Modeling the Physical World workshop, *Poster: Inverse Optimal Power Flow*, Dec 2018  
 NeurIPS AI for Social Good workshop, *Poster: Inverse Optimal Power Flow*, Dec 2018  
 CompSustNet Doctoral Consortium, *Matrix Completion for Low-Observability Voltage Estimation*, Sep 2018

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CMU CEDM Seminar, *Characterizing Marginal Emissions Factors in PJM*, Oct 2017  
 DOE CSGF Annual Mtg., *Poster: Task-based End-to-end Model Learning in Stochastic Optimization*, Jul 2018  
 NeurIPS, *Poster: Task-based End-to-end Model Learning in Stochastic Optimization*, Dec 2017  
 CompSustNet NSF Review, *Poster: Task-based End-to-end Model Learning in Stochastic Opt.*, Oct 2017  
 INFORMS, *Task-based end-to-end model learning in stochastic optimization*, Oct 2017  
 CMU CEDM Annual Mtg., *Poster: Assessing the Emissions Reductions from Interventions*, May 2017  
 CMU CEDM Seminar, *Assessing the Emissions Reductions from Power Systems Interventions*, Apr 2017  
 CMU Energy Week, *Poster: Predicting Marginal Generators in Real Time*, Apr 2017

## OTHER ACTIVITIES

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**CMU Tech4Society**, *Co-founder and Project Lead* (2016–2020)

Provided technical and data support to local grassroots organizations in Pittsburgh, PA, USA.

**Engineers for a Sustainable World**, *New Chapter Development Director* (2016–2019)

Developed new collegiate chapters across the United States focused on sustainability and engineering.

**Harvey Mudd Sustainability Committee**, *Student Representative* (2014–2015)

Worked with college administration to direct and oversee the college’s sustainability program.

**ESW/MOSS Environmental Club**, *Co-President* (2012–2014), *Member* (2011–2015)

Led projects including creation of 1M USD Green Fund, policy outreach, and campus awareness events.

**Harvey Mudd College Honor Board**, *Class Representative* (2011–2015)

Presided over hearings and participated in discussions regarding the college’s honor code.

**Science Bus**, *Co-president* (2012–2013), *Teacher* (2011–2014)

Created and taught weekly science lessons at 18 elementary school classrooms in Pomona, CA, USA.

**Harvey Mudd College Homework Hotline**, *Tutor* (2012)

Provided over-the-phone math and science tutoring for students in grades 4–12.

**Kumon Math & Reading**, *Tutor* (2007–2011)

Graded worksheets and provided one-on-one instruction in preschool–grade 12 math and reading.

## ADDITIONAL INFORMATION

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<b>Spoken Languages</b>	English (native speaker), Telugu (fluent), Spanish (basic)
<b>Programming Languages</b>	Python, MATLAB (proficient) C, C++, Haskell, R, SQL, Bash, Objective-C, Java (knowledgeable)
<b>Deep Learning Frameworks</b>	PyTorch (proficient), JAX (proficient), TensorFlow (knowledgeable)
<b>Citizenship</b>	USA
<b>Erdős Number</b>	3