Adam Lechowicz

 □ alechowicz@cs.umass.edu www.adamlechowicz.github.io

Education

University of Massachusetts Amherst (Manning CICS), Ph.D. Computer Science

2022 -

Supported by DOE Computational Science Graduate Fellowship, 2023 -

Advised by: Mohammad Hajiesmaili and Prashant Shenoy

University of Massachusetts Amherst

2019 - 2022

B.S. Computer Science & B.A. Political Science, summa cum laude

Phi Beta Kappa, 21st Century Leader. GPA: 3.99 / 4.0

Honors Thesis (Advisor: Cameron Musco): Edge Dynamics and Opinion Polarization in Social Networks

Research Interests

I work at the intersection of theory and systems, with an emphasis on problems that hold implications for energy, equity, and climate change. From a theoretical perspective, I am interested in algorithms for online optimization, particularly of the learning-augmented or provably fair varieties. On the application side, I am especially interested in novel system designs that accelerate the decarbonization of societal energy systems and computing infrastructure.

Experience

Ph.D. Intern Golden, Colo. Summer 2024

Power Systems Engineering Center, National Renewable Energy Laboratory (NREL)

• Advised by Dr. Joshua Comden - areas: Incentive design, Power system control

Pasadena. Calif. **Visiting Researcher** Summer 2023

Computing and Mathematical Sciences, California Institute of Technology

Advised by Prof. Adam Wierman – areas: Online optimization, Carbon-aware computing

Research Assistant Amherst, Mass.

Manning College of Information and Computer Sciences

Jun. 2022 - May 2023

o Designed algorithms for online problems such as knapsack and online search, and worked on residential heating decarbonization in a small city

o areas: Online optimization, Algorithmic fairness, Energy analytics

Course Assistant Amherst, Mass.

Intro to Machine Learning (CS 389) - College of Information and Computer Sciences

Spring 2022

Publications and Academic Papers

† – indicates undergraduate I advised $(\alpha-\beta)$ – indicates alphabetical author order

Julia Köhlke, Adam Lechowicz, Oluwole Fabikun[†], Noman Bashir, Abel Souza, Prashant Shenoy, and Sebastian Lehnhoff Examining the adoption of electromobility concepts across social contexts for energy transition ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys), 2024.

Adam Lechowicz, Joshua Comden

Distribution Grid Incentive Design with Unknown Agent Behavior

Seventh Workshop on Autonomous Energy Systems, 2024.

Adam Lechowicz, Nicolas Christianson, Bo Sun, Noman Bashir, Mohammad Hajiesmaili, Adam Wierman, and Prashant Shenoy **Chasing Convex Functions with Long-term Constraints**

International Conference on Machine Learning (ICML), 2024.

Roozbeh Bostandoost, Walid A. Hanafy, Adam Lechowicz, Noman Bashir, Prashant Shenoy, and Mohammad Hajiesmaili Data-driven Algorithm Selection for Carbon-Aware Scheduling

HotCarbon Workshop on Sustainable Computer Systems, 2024.

Adam Lechowicz, Nicolas Christianson, Bo Sun, Noman Bashir, Mohammad Hajiesmaili, Adam Wierman, and Prashant Shenoy Online Conversion with Switching Costs: Robust and Learning-augmented Algorithms ACM SIGMETRICS / IFIP Performance, 2024.

Roozbeh Bostandoost, Adam Lechowicz, Walid A. Hanafy, Noman Bashir, Prashant Shenoy, and Mohammad Hajiesmaili LACS: Learning-Augmented Carbon-Aware Resource Scaling for Uncertain Demand ACM International Conference on Future Energy Systems (e-Energy), 2024.

Adam Lechowicz, Rik Sengupta, Bo Sun, Shahin Kamali, and Mohammad Hajiesmaili Time Fairness in Online Knapsack Problems

International Conference on Learning Representations (ICLR), 2024.

Cooper Sigrist, Adam Lechowicz, Jovan Champ, Noman Bashir, Mohammad Hajiesmaili Lost in Siting: The Hidden Carbon Cost of Inequitable Residential Solar Installations *In submission*, 2024.

Adam Lechowicz, Joshua Comden, Andrey Bernstein

Optimizing Individualized Incentives from Grid Measurements and Limited Knowledge of Agent Behavior In submission, 2024.

Adam Lechowicz, Nicolas Christianson, Bo Sun, Noman Bashir, Mohammad Hajiesmaili, Adam Wierman, and Prashant Shenoy CARBONCLIPPER: Optimal Algorithms for Carbon-Aware Spatiotemporal Workload Management In submission, 2024.

Mohammadreza Daneshvaramoli, Helia Karisani, Adam Lechowicz, Bo Sun, Cameron Musco, and Mohammad Hajiesmaili Competitive Algorithms for Online Knapsack with Succinct Predictions

In submission, 2024.

Anupama Sitaraman, Adam Lechowicz, Noman Bashir, Xutong Liu, Prashant Shenoy, and Mohammad Hajiesmaili Dynamic Incentive Allocation for City-scale Deep Decarbonization

In submission, 2024.

Adam Lechowicz, Nicolas Christianson, Jinhang Zuo, Noman Bashir, Mohammad Hajiesmaili, Adam Wierman, and Prashant Shenoy The Online Pause and Resume Problem: Optimal Algorithms and An Application to Carbon-Aware Load Shifting Proc. of the ACM on Measurement and Analysis of Computing Systems, Dec. 2023. Also in SIGMETRICS / Performance '24.

Adam Lechowicz, Noman Bashir, John Wamburu, Mohammad Hajiesmaili, and Prashant Shenoy Equitable Network-Aware Decarbonization of Residential Heating at City Scale ACM International Conference on Future Energy Systems (e-Energy), 2023.

Nikita Bhalla, Adam Lechowicz, and Cameron Musco $(\alpha - \beta)$

Local Edge Dynamics and Opinion Polarization

ACM International Conference on Web Search and Data Mining (WSDM), 2023.

Bhawana Chhaglani, Camellia Zakaria, Adam Lechowicz, Jeremy Gummeson, and Prashant Shenoy

FlowSense: Monitoring Airflow in Building Ventilation Systems Using Audio Sensing

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), March 2022.

Honors and Awards

National Science Foundation: Student Travel Grant (for ACM SIGMETRICS 2024)	Spring 2024
U. of Michigan, Georgia Tech, UC San Diego: 2023 NextProf Pathfinder Workshop (invited)	Fall 2023
Manning CICS: Dr. C. Mohan Graduate Scholarship	Fall 2023
U.S. Department of Energy: Computational Science Graduate Fellowship	2023-2027
ACM SIGIR: Student Travel Grant (for ACM WSDM 2023)	Spring 2023
National Science Foundation: Student Travel Award (for ACM WSDM 2023)	Spring 2023
Energy Transition Institute: NSF ELEVATE Fellowship	2022-2024
UMass Amherst: Class of 2022 – 21st Century Leader Award (highest undergraduate honor)	Spring 2022
Manning CICS: Outstanding Undergraduate Achievement Award	Spring 2022
UMass Amherst: 2021-2022 UMass Amherst Rising Researcher	Spring 2022
Manning CICS: Senior Leadership Award	Spring 2022
Manning CICS: Outstanding Undergraduate Course Assistant Award	Spring 2022
UMass Amherst: Inducted into Phi Beta Kappa & Phi Kappa Phi Honor Societies	Spring 2021
UMass Amherst: David C. Knapp Scholarship	Spring 2020
Massachusetts Department of Higher Education: John and Abigail Adams Scholarship	Fall 2018

Presentations

⋆ − indicates invited

Online Optimization with Switching Costs and Long-term Constraints

* SODALab Group Meeting @ University of Alberta (Slides)

Aug. 2024

Equitable Network-Aware Decarbonization of Residential Heating at City Scale * PIT × UMass: Developing Tech for the Public Interest (poster in library exhibit)	Apr – May. 2024
Theoretical Foundations for Carbon-aware Load Shifting ELEVATE Retreat, Energy Transition Institute @ UMass	Feb. 2024
Fresh Challenges for Online Problems: new directions motivated by practice * RSRG / FALCON Lunch Seminar @ Caltech (Slides)	Jun. 2023
On the Necessary "Unfairness" of Competitive Online Algorithms UMass CS Theory Seminar (Slides)	Nov. 2022
Edge Dynamics and Opinion Polarization in Social Networks Honors Thesis Defense (Slides)	Apr. 2022
Machine Learning for Absolute Beginners – Mathematical Foundations of ML Workshop @ HackUMass IX (Slides)	Nov. 2021
Research Advising and Mentorship	
Rohan Shenoy (UG, UC Berkeley) – Undergraduate Research	2024 -
Anisha Prathi (UG, UMass) – Undergraduate Honors Thesis	2023 –
Kaosisochukwu Nwosu (UG, UMass) – Undergraduate Research Assistant	2023 -
Lily Davoren (UG, Bryn Mawr) – Computing for an Equitable Energy Transition REU	Summer 2023
Coo Katsuno, Saif Masoud, Riley Kim Connell (UG, UMass) – URV Program @ MCICS	Summer 2023
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Oluwole Fabikun (UG, UMass) – LSAMP Scholar – (featured in graduating "Senior Series")	2023 – 2024
Other Professional Experience	
Student Trustee – Board of Trustees, University of Massachusetts	Boston, Mass.
 Served as student representative of the Amherst campus on system-wide Board of Trustees. 	Jul. 2022 – Jul. 2023
Peer Advisor – Manning College of Information and Computer Sciences	Amherst, Mass.
 Advised students on course selection and offered guidance for struggling students. 	Jan. 2021 – Jan. 2022
	Jan. 2021 Jan. 2022
Web Developer – Public Higher Education Network of Massachusetts (PHENOM) • Created new web UI & recruitment tools for a nonprofit in the higher education sector.	Worcester, Mass. Dec. 2020 – Nov. 2021
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Grad Student Organizer – Algorithms with Predictions Seminar, UMass Amherst	Fall 2022
- Department & University Service -	
New Building Committee – Manning CICS	Jun. 2022 – ongoing
Headmaster (Organizer) – OlympCICS – Manning CICS Organized the 2nd iteration of an annual competition and celebration for CS PhD students.	Jan. 2024
Grad Student Social Committee – Manning CICS	Sep. 2023 – Aug. 2024
New PhD Student Committee – Manning CICS	Sep. 2023 – Aug. 2024
Committee Against Racism and for Equity – Structural Barriers to Academic Success	Sep. 2021 – Aug. 2022
Flexible Learning Task Force & Implementation Committee – UMass Amherst	Jan. 2021 – May 2022
- Outreach & Volunteering -	
Workshop Co-lead and Presenter – Holyoke Energy Justice Leaders Workshop #3	May 2024
Judge – HackUMass XI (hackathon)	Nov. 2023
Mentor – Undergraduate Research Volunteers (URV) Program	Summer 2023
Mentor & Instructor – UMass Turing Summer Program	Summer 2022 & 2023
Founder & Editor-in-Chief – UMass Index Yearbook Led a successful effort to revive the university's yearbook – took project from conceptual stage to raising funds from scratch through preorders and delivering several hundred books.	Aug. 2020 – Jul. 2022
Organizing Co-director – UMass CEPA Food Justice Campaign • Leadership role in a campaign focused on advocacy around food insecurity and sustainability	Sep. 2019 – May 2021
Senator, Secretary of Technology – UMass Student Government Association	Sep. 2019 – May 2022