

Landon Butler

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RESEARCH INTERESTS	My research examines the theoretical foundations of online learning and algorithmic decision-making in complex systems, inspired by applications in market design and transportation.	
EDUCATION	University of California, Berkeley Ph.D. candidate in Electrical Engineering and Computer Science <i>Advised by Prof. Kannan Ramchandran</i>	2027
	University of Pennsylvania M.S.E. in Data Science Thesis: Convolutional Learning on Multigraphs <i>Advised by Prof. Alejandro Ribeiro</i>	2022
	University of Pennsylvania B.S.E. in Systems Engineering Concentration: Artificial Intelligence and Data Science Minors: Computer Science, Mathematics	2022
AWARDS	Best Paper Award, <i>International Conference on Research in Air Transportation</i> Best Paper Award, <i>Andrew P. Sage Memorial Conference</i> Sidney Shore Award, <i>University of Pennsylvania</i> Norman Gross Engineering Prize, <i>University of Pennsylvania</i> Wolf Family Award in Systems Engineering, <i>University of Pennsylvania</i> Excellence in Student Support, <i>University of Pennsylvania</i>	2022 2022 2022 2022 2021 2021
FELLOWSHIPS	NSF Graduate Research Fellowship Littlejohn Fellowship, <i>University of Pennsylvania</i>	2022 2021
PUBLICATIONS	Journal Publications <ol style="list-style-type: none">1. <i>Convolutional Learning on Multigraphs</i> IEEE Transactions on Signal Processing, 2023 Landon Butler, Alejandro Parada-Mayorga, and Alejandro Ribeiro2. <i>Convolutional Filtering and Neural Networks with Non-Commutative Algebras</i> IEEE Transactions on Signal Processing, 2023 Alejandro Parada-Mayorga, Landon Butler, and Alejandro Ribeiro3. <i>Equitable Optimization of U.S. Airline Route Networks</i> Computers, Environment and Urban Systems, 2023 Andy Eskenazi, Arnav Joshi, Landon Butler, and Megan Ryerson Conference Papers <ol style="list-style-type: none">1. <i>Learning with Multigraph Convolutional Filters</i> International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023 Landon Butler, Alejandro Parada-Mayorga, and Alejandro Ribeiro2. <i>Democratizing Aviation Emissions Estimation: Development of an Open-Source, Data-Driven Methodology</i> International Conference on Research in Air Transportation (ICRAT), 2022 Andy Eskenazi, Landon Butler, Arnav Joshi, and Megan Ryerson3. <i>Learning Connectivity for Data Distribution in Robot Teams</i> IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2021 Ekaterina Tolstaya, Landon Butler, Daniel Mox, James Paulos, Vijay Kumar, and Alejandro Ribeiro	

TEACHING

Teaching Assistant, *University of Pennsylvania ESE Department*

- Statistics for Data Science, Spring 2021, Summer 2021
- Graph Neural Networks, Fall 2021
- Foundations of Data Science, Fall 2021

INTERNSHIPS

Software Engineering Intern at Strivr, Summer 2020

Developed encryption architecture for end-to-end protection of telemetry data

Electrical Engineering Intern at Kiewit, Summer 2016, 2017, 2018, 2019

Designed plant circuitry across seven power generation projects