Landon Butler

 $land on butler. github. io \ \, \diamond \ \, land on b@berkeley. edu$

RESEARCH INTERESTS	My research examines the theoretical foundations of online learning and algorithmic dec 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 Advised by Prof. Kannan Ramchandran	2027
	University of Pennsylvania M.S.E. in Data Science Thesis: Convolutional Learning on Multigraphs Advised by Prof. Alejandro Ribeiro	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, International Conference on Research in Air Transportation Best Paper Award, Andrew P. Sage Memorial Conference Sidney Shore Award, University of Pennsylvania Norman Gross Engineering Prize, University of Pennsylvania Wolf Family Award in Systems Engineering, University of Pennsylvania Excellence in Student Support, University of Pennsylvania	2022 2022 2022 2022 2021 2021
FELLOWSHIPS	NSF Graduate Research Fellowship Littlejohn Fellowship, <i>University of Pennsylvania</i>	2022 2021
Publications	Preprints 1. Convolutional Filtering and Neural Networks with Non-Commutative Algebras arXiv:2108.09923, 2023 Accepted to IEEE Transactions on Signal Processing Alejandro Parada-Mayorga, Landon Butler, and Alejandro Ribeiro Journal Publications 1. Convolutional Learning on Multigraphs	
	IEEE Transactions on Signal Processing, 2023 Landon Butler, Alejandro Parada-Mayorga, and Alejandro Ribeiro 2. Equitable Optimization of U.S. Airline Route Networks	
	Computers, Environment and Urban Systems, 2023	

Andy Eskenazi, Arnav Joshi, Landon Butler, and Megan Ryerson

Conference Papers

- Learning with Multigraph Convolutional Filters
 International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023
 Landon Butler, Alejandro Parada-Mayorga, and Alejandro Ribeiro
- 2. Democratizing Aviation Emissions Estimation: Development of an Open-Source, Data-Driven Methodology

International Conference on Research in Air Transportation (ICRAT), 2022 Andy Eskenazi, Landon Butler, Arnav Joshi, and Megan Ryerson

3. Learning Connectivity for Data Distribution in Robot Teams
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