Education University of California San Diego, La Jolla, CA <i>PhD in Computer Science</i>	Expected 2022
University of Rochester, Rochester, NY B.S. in Computer Science	May 2017
Employment Doctoral Researcher University of California San Diego, La Jolla, CA • Machine learning & optimization algorithms, graph embedding, adversat • Placement algorithms for The OpenRoad Project (2018-2019)	October 2018 - rial robustness
Quantitative Research Intern, Systematic options alpha Citadel Securities, Chicago, IL	June - September 2022
Machine Learning Intern, GSOC-ML (Machine Learning Group) Qualcomm, San Diego, CA • Developed framework for learning on hierarchical graphs with multiscale	June - September 2019 e labels
Machine Learning Intern, Intelligent Systems Group Johns Hopkins University, Applied Physics Laboratory, Laurel, MD • Implemented deep learning-based segmentation, label aggregation, decor	June - September 2018 relation algorithms
Risk and Quantitative Technologies Intern JP Morgan Chase, New York, NY	June - August 2016
Research Projects Block Placement and Graph Embedding Optimization • Developed efficient spectral graph cut/embedding algorithms	$PD'23^1$ (best paper nom.)
• Proposed convex regularizer to provably reduce edge-crossings ASPDA	$C'22^1$ (best paper award)
• Graph embedding for bin packing & neural network similarity testing	ICML TAG'22
Efficient Methods for Enhancing Robustness of Neural Networks Leveraged online self-supervision and bilevel optimization to improve robustness 	bustness ICLR'21
• Developed novel geometric certificate of robustness and proof of correcting	ness preprint
Open Source Projects https://github.com// banditpylib https://github.com// Lightweight Python library for bandit algorithms . Implemented decentralized & private environments, linear & correlated .	Alanthink/banditpylib bandit algorithms
tslearn https://github Python machine learning toolkit for time-series • Introduced support for Gaussian process regression and improved data i	.com/rtavenar/tslearn JMLR'21 nfrastructure
 Teaching Experience • AI: Statistical Approaches, Convex Optimization Theory and Algorithm • Recommender Systems, Computational Stats, Algorithms, Digital Logic 	IS
Skills & Other	
- Languages: Python, Matlab, Java, R, SQL, Javascript, C/C++, Julia	
- Frameworks: Jax (numpy, scipy,cvxpy,matplotlib), PyTorch, TensorFlow,	, Keras, SLURM
+ 2022 ACM/IEEE ASPDAC Best Paper Award	
+ 2023 IEEE ISPD Best Paper Award Candidate (award to be decided in	2023)
- 1st place in data science at DandyHacks, University of Rochester, 2016	

 $^{^{1}\}mathrm{corresponding}$ author, authors listed alphabetically following convention