

Adrian Rivera Cardoso

CONTACT INFORMATION	Email: adrian.riv@hotmail.com Phone: 512-201-0550 Website: www.adrianriv.com Linkedin: www.linkedin.com/in/adrianriv
EDUCATION	Georgia Institute of Technology , Atlanta, GA Ph.D. Operations Research. <i>Advisors:</i> Huan Xu, He Wang 2015 - 2019 <i>Thesis:</i> Advances in online convex optimization, games, and problems with bandit feedback M.S. Operations Research 2015 - 2017 The University of Texas at Austin , Austin, TX B.S. Mechanical Engineering, B.A. Economics 2012 - 2015
INTERESTS	I am interested in problems at the intersection of optimization, machine learning, statistics, and finance. I blog about these topics at: www.adrianriv.com/blog/ .
EXPERIENCE	Senior Software Engineer (Machine Learning), LinkedIn 2020 - Present A few projects I have worked on that made it to production: <ul style="list-style-type: none">• A machine learning algorithm to generate Differentially Private synthetic data in distributed computing environments for analytics. This was used to power a new product for advertisers that provides them analytics about their ad campaigns.• A library of Differentially Private algorithms for real-time analytics. The service it powers currently handles hundreds of queries per second.• An algorithm to cluster individuals for ad targeting, resulting in a twofold increase in auction depth. Research Assistant, Georgia Institute of Technology 2016 - 2019 Focused on sequential decision making in unknown and non-stationary environments. I worked on problems related to Reinforcement Learning, Multi Armed Bandits, and Online Learning, I also explored connections with Generative Adversarial Networks and Game Theory. My research was published in top Machine Learning venues. Data Scientist (Intern), Roadie Inc. May-Aug 2018, May-Aug 2019 Roadie is a platform for delivery of packages that uses crowdsourced drivers. During my internships I helped with the development of algorithms that: notify drivers of packages they might be interested in, dynamically adjust the price of packages, and find good matches between packages and drivers. I helped with the design, implementation, and testing of the algorithms.
PUBLICATIONS	<ol style="list-style-type: none">1. Cardoso, A. R., Rogers R. “Differentially Private Histograms under Continual Observation: Streaming Selection into the Unknown”. In <i>Proceedings of The 25th International Conference on Artificial Intelligence and Statistics (AISTATS)</i>, 2022.2. Cardoso, A. R., Wang H. and Xu, H. “Large Scale Markov Decision Processes with Adversarial Rewards”. Accepted at <i>Neural Information Processing Systems (NeurIPS)</i>, 2019.3. Cardoso, A. R., Abernethy J, Wang H. and Xu, H. “Competing Against Equilibria in Zero-Sum Games with Evolving Payoffs”. In <i>Proceedings of the International Conference on Machine Learning (ICML)</i>, 2019.

