

ABOUT	<p>Lead a team of scientists using machine learning and control theory to develop production algorithms for optimal pacing and bidding strategies in real-time ad auctions.</p> <p>My math research background allows me to quickly learn and synthesize complex and domain-specific knowledge so that ML/AI tools can be used to craft high-impact solutions. My experience as a professor enables me to communicate these technical solutions effectively across diverse stakeholders and partners.</p>
WORK HISTORY	<p>Yahoo, Senior Research Scientist, 12/2023 – Present.</p> <p>Yahoo, Research Scientist, 7/2022 – 12/2023.</p> <ul style="list-style-type: none">• Implemented improvements that are behind an 8-figure increase in annual margins.• Science lead for many projects (a sample):<ul style="list-style-type: none">◦ Budget splitting based A/B testing infrastructure.◦ Simplify legacy java pacing algorithm into a modern python implementation.◦ Metrics for supply scoring: When can bid requests be discarded early.◦ Pacing initialization: Model what pacing signals to use in a cold-start.◦ Noised bidding strategies: To handle market discontinuities in signal to spend.
ACADEMIC HISTORY	<p>University of Illinois Urbana-Champaign, Assistant Professor, 8/2016 – 8/2021.</p> <ul style="list-style-type: none">• Researched what is now known as the Borman-Sheridan class in symplectic geometry.• Consistently recognized as an excellent teacher among all faculty at the university. <p>Stanford University, Postdoctoral Fellow, 8/2013 – 8/2016.</p> <ul style="list-style-type: none">• Solved major long open (60 years) problem in high dimensional contact topology. <p>Institute for Advanced Study, Member, 8/2014 – 8/2015.</p>
RESEARCH SUMMARY	<p>ML Conference Paper: ICLR 2024.</p> <p>Published 12 papers (600+ citations) in geometry and probability in top math journals.</p> <p>20+ keynote speeches at international conferences (e.g. Germany, France, UK).</p> <p>20+ research lectures at elite universities (e.g. MIT, Columbia, Berkeley, ETH Zürich).</p>
EDUCATION	<p>University of Chicago, Ph.D., Mathematics, 2013.</p> <p>National Science Foundation Postdoctoral Research Fellowship</p> <p>Reed College, B.A., Mathematics, 2007.</p> <p>Phi Beta Kappa, Barry M. Goldwater Scholarship</p>
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CITIZENSHIP	USA