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<b>Education</b>	<b>New York University</b> , PhD in Data Science Advisor: <i>Andrew Gordon Wilson</i> <ul style="list-style-type: none"><li>Center for Data Science Fellowship, 2020-2025</li></ul>	Sep 2020 - present
	<b>New York University</b> , MS in Computer Science Advisor: <i>Joan Bruna</i> <ul style="list-style-type: none"><li>Masters Thesis Fellowship, Courant Institute, 2018</li></ul>	Sep 2017 - May 2019
	<b>IIT Hyderabad</b> , B.Tech in Computer Science <ul style="list-style-type: none"><li>TODAI Scholarship, University of Tokyo, 2013</li><li>Academic Excellence Award, 2012</li></ul>	Aug 2012 - May 2016
<b>Publications</b>	<b>S. Kapoor</b> and Valerio Perrone. A Simple and Fast Baseline for Tuning Large XGBoost Models, 2021. <i>Technical report</i>	
	Wesley J. Maddox, <b>S. Kapoor</b> , and A. G. Wilson. When are Iterative Gaussian Processes Reliably Accurate? In <i>Beyond First Order Methods in ML Systems ICML Workshop</i> , 2021	
	N. Gruver, <b>S. Kapoor</b> , M. Cranmer, and A. G. Wilson. Epistemic Uncertainty in Learning Chaotic Dynamical Systems. In <i>Uncertainty &amp; Robustness in Deep Learning ICML Workshop</i> , 2021	
	<b>S. Kapoor*</b> , M. Finzi*, A. Wang, and A. G. Wilson. SKIing on Simplices: Kernel Interpolation on the Permutohedral Lattice for Scalable Gaussian Processes. In <i>Proceedings of the International Conference on Machine Learning</i> , 2021. ( <b>Oral, Top 3%</b> )	
	<b>S. Kapoor</b> , T. Karaletsos, and T. D. Bui. Variational Auto-Regressive Gaussian Processes for Continual Learning. In <i>Proceedings of the International Conference on Machine Learning</i> , 2021	
	T. Moskovitz, R. Wang, J. Lan, <b>S. Kapoor</b> , T. Miconi, J. Yosinski, and A. Rawal. First-Order Preconditioning via Hypergradient Descent. In <i>Beyond First Order Methods in ML NeurIPS Workshop</i> , 2019	
	<b>S. Kapoor</b> . Leveraging Communication for Efficient Sampling, 2019. <i>Masters thesis</i>	
	C. Resnick*, R. Raileanu*, <b>S. Kapoor</b> , A. Peysakhovich, K. Cho, and J. Bruna. Backplay: “Man muss immer umkehren”. In <i>AAAI Workshop on Reinforcement Learning in Games</i> , 2019	
<b>S. Kapoor</b> . Multi-Agent Reinforcement Learning: A Report on Challenges and Approaches, 2018. <i>Technical report</i>		
<b>Industry Experience</b>	<b>Amazon</b> , Applied Science Intern, Germany <ul style="list-style-type: none"><li>Research in multi-fidelity Bayesian optimization.</li></ul>	Jul 2021 - Sep 2021
	<b>Uber</b> , AI Resident, USA <ul style="list-style-type: none"><li>&lt; 1% acceptance rate; research in approximate Bayesian inference.</li></ul>	Aug 2019 - Jul 2020
	<b>Google</b> , Software Engineering Intern, USA <ul style="list-style-type: none"><li>Natural language code search on KubeFlow at KubeCon North America 2018.</li></ul>	May 2018 - Aug 2018
	<b>Headout</b> , Software Engineer, India <ul style="list-style-type: none"><li>Led internal developer tooling; slashed deployment/rollback downtime by 99%.</li></ul>	Dec 2016 - Jul 2017
	<b>StoryXpress</b> , Co-Founder, India <ul style="list-style-type: none"><li>Designed the in-house OpenGL video engine for creation at scale.</li></ul>	May 2013 - Aug 2016

<b>Other Research Projects</b>	<b>Information-Theoretic Reinforcement Learning</b> Sep 2019 - Jan 2020 Advisors: <i>Thang D. Bui, Theofanis Karaletsos, Matthias Poloczek</i> <ul style="list-style-type: none"> <li>• Mutual information measures for model predictive control.</li> </ul>
	<b>Representations for Reinforcement Learning</b> Sep 2019 - Nov 2019 Advisors: <i>Jeff Clune, Ashley Edwards</i> <ul style="list-style-type: none"> <li>• Contrastive loss based representations for <i>Go-Explore</i>.</li> </ul>
	<b>Survival Analysis for Time-Dependent Covariates</b> Oct 2018 - Dec 2018 Advisor: <i>Rajesh Ranganath</i> <ul style="list-style-type: none"> <li>• <i>Deep Markov Models</i> to model physiology of ICU patients.</li> </ul>
	<b>Cooperative zero-sum games</b> Mar 2018 - May 2018 Advisors: <i>Joan Bruna, Cinjon Resnick</i> <ul style="list-style-type: none"> <li>• Q-Learning for non-stationary multi-agent systems.</li> </ul>
<b>Technical Skills</b>	<b>Languages:</b> Python, Node, Javascript, C, C++, Java <b>Technologies:</b> PyTorch, TensorFlow, Pyro PPL, CUDA, MySQL, React, Docker, Ansible, OpenGL
<b>Honors &amp; Awards</b>	<b>StackOverflow Top Contributor:</b> Reputation 6k (top 7% overall as of Jan 2022); answers reached ~2.4 million people, 2021 <b>NASSCOM Emerge 50:</b> <i>StoryXpress</i> among top startups from 500+ across India for innovation impact, 2015 <b>HYSEA Best Software Product, Student Innovation:</b> <i>StoryXpress</i> winner among 100+ startups, 2015 <b>Microsoft Build the Shield:</b> First Runner up among 280 teams across India, 2015 <b>ACM ICPC Amritapuri Regionals:</b> Finalist among 1500+ teams, 2013 <b>Joint Entrance Exam (JEE):</b> Top 0.1% among 0.5 million students across India for undergraduate admissions, 2012
<b>Teaching Experience</b>	<b>Teaching Assistant,</b> <i>Introduction to Machine Learning</i> , NYU Spring 2021 <b>Head Grader,</b> <i>Machine Learning</i> , NYU Spring 2019 <b>Teaching Assistant,</b> <i>Introduction to Machine Learning</i> , NYU Spring 2019 <b>Section Leader,</b> <i>Inference and Representation</i> , NYU Fall 2018 <b>Grader,</b> <i>Introduction to Machine Learning</i> , NYU Fall 2018 <b>Recitation Leader,</b> <i>Data Structures</i> , NYU Spring 2018 <b>Grader,</b> <i>Machine Learning</i> , NYU Spring 2018
<b>Outreach &amp; Services</b>	<b>Reviewer,</b> ICML 2021, NeurIPS 2021, BDL 2021, ICLR 2022 <b>Instructor,</b> CDS Undergraduate Research Program (CURP), 2021