

## Christina X Ji

chrilji@gmail.com, <https://cxji.github.io/>

Education	<b>PhD.</b> <i>MIT computer science</i> . GPA: 5.0/5.0 Thesis: Characterizing variation in healthcare across time and providers using machine learning	Expected Jul 2024
	<b>MEng.</b> <i>MIT computer science</i> . GPA: 5.0/5.0 Thesis: Modeling progression of Parkinson's disease	2019
	<b>BS.</b> <i>MIT computer science</i> . Minor: Mathematics. GPA: 4.9/5.0	2019
Experience	<i>MIT computer science PhD student</i> <ul style="list-style-type: none"><li>• Analyzed real-world data with causal inference and statistics</li><li>• Built large language models to predict patient trajectories</li><li>• Created deep learning models for image classification</li><li>• Evaluated off-policy reinforcement learning policies</li><li>• Worked with PyTorch, huggingface, GPUs, SQL, and R</li></ul>	Sep 2019 –
	<i>Genesis Therapeutics machine learning intern</i> <ul style="list-style-type: none"><li>• Built language models and diffusion-based graph neural networks to generate molecules for specific drug targets</li></ul>	Jun 2023 – Aug 2023
	<i>LinkedIn data science intern</i> <ul style="list-style-type: none"><li>• Extracted data-driven insights on the causal effect of LinkedIn Learning features on engagement metrics and revenue</li><li>• Used distributed computing tools, including Spark</li></ul>	Jun 2021 – Aug 2021
Papers	Seq-to-final: a benchmark for tuning from sequential distributions to a final time point. <b>CX Ji</b> , AM Alaa, and D Sontag. Under review. 2024.	
	Assessing variation in first-line type 2 diabetes treatment across eGFR levels and providers. <b>CX Ji</b> , S Blecker, M Oberst, MC Shih, L Horwitz, and D Sontag. Manuscript under preparation. 2024.	
	Large-scale study of temporal shift in health insurance claims. <b>CX Ji</b> , AM Alaa, and D Sontag. CHIL 2023. Oral spotlight.	
	Finding regions of heterogeneity in decision-making via expected conditional covariance. J Lim*, <b>CX Ji</b> *, M Oberst*, S Blecker, L Horwitz, and D Sontag. NeurIPS 2021. *equal contribution	
	Trajectory inspection: a method for iterative clinician-driven design of reinforcement learning studies. <b>CX Ji</b> *, M Oberst*, S Kanjilal, and D Sontag. AMIA virtual informatics summit 2021. *equal contribution	
Courses	<ul style="list-style-type: none"><li>• Machine learning, Bayesian inference, Algorithms for inference, Probability theory, Optimization, Software construction, Econometrics</li><li>• Teaching assistant for Introduction to Statistical Data Analysis</li><li>• Instructor for Introduction to Statistical Hypothesis Testing</li></ul>	
Awards & Service	• Teaching awards from MIT EECS & School of Engineering	2024
	• Mentored undergraduate & master's research, PhD applicants	2020 – 2023
	• Organized MIT EECS PhD orientation and visit days	2020 – 2022