

Christina X Ji

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Education	PhD. <i>MIT computer science.</i> Thesis: Characterizing variation in healthcare across time and providers using machine learning	Expected Aug 2024
	MEng. <i>MIT computer science.</i> GPA: 5.0/5.0 Thesis: Modeling progression of Parkinson's disease	2019
	BS. <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">• Built large language models to predict patient trajectories• Evaluated off-policy reinforcement learning policies• Analyzed real-world data with causal inference and statistics• Worked with PyTorch, huggingface, Python, SQL, and R	Sep 2019 –
	<i>Genesis Therapeutics machine learning intern</i> <ul style="list-style-type: none">• Built language models and diffusion-based graph neural networks to generate molecules for specific drug targets	Jun 2023 – Aug 2023
	<i>LinkedIn data science intern</i> <ul style="list-style-type: none">• Performed causal analyses to measure effect of LinkedIn Learning features on engagement and revenue	Jun 2021 – Aug 2021
	<i>Previous internships at Philips healthcare, IBM research, Koch Institute for cancer research, and Janssen pharmaceuticals</i>	
Papers	Seq-to-final: a benchmark for tuning from sequential distributions to a final time point. CX Ji , AM Alaa, and D Sontag. Under review. 2024. Assessing variation in first-line type 2 diabetes treatment across eGFR levels and providers. CX Ji , 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. CX Ji , AM Alaa, and D Sontag. CHIL 2023. Oral spotlight. Finding regions of heterogeneity in decision-making via expected conditional covariance. J Lim*, CX Ji *, 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. CX Ji *, M Oberst*, S Kanjilal, and D Sontag. AMIA virtual informatics summit 2021. *equal contribution	
Courses	<ul style="list-style-type: none">• Machine learning, Bayesian inference, Optimization, Software construction• Biochemistry, Organic chemistry, Cell biology, Cancer biology, Genetics• Teaching assistant for Introduction to Statistical Data Analysis• Instructor for Introduction to Statistical Hypothesis Testing	
Awards & Service	<ul style="list-style-type: none">• Teaching awards from MIT EECS & School of Engineering• Mentored undergraduate and master's research, PhD applicants• Organized MIT EECS PhD orientation and visit days	2024 2020 – 2023 2020 – 2022