Christina X Ji

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Education

PhD. *MIT computer science.* Expected Jul 2024
Thesis: Characterizing variation in healthcare across time and providers using machine learning

MEng. *MIT computer science.* GPA: 5.0/5.0 2019
Thesis: Modeling progression of Parkinson's disease

BS. *MIT computer science.* Minor: Mathematics. GPA: 4.9/5.0 2019

Experience

MIT computer science PhD student Sep 2019 –
- Build machine learning models for clinical applications
- Analyze data with SQL, Python, and statistical methods
- Co-lead collaboration with a health insurance company

Genesis Therapeutics machine learning intern Jun 2023 – Aug 2023
- Ran experiments with language and diffusion models to generate molecules for specific drug targets

LinkedIn data science intern Jun 2021 – Aug 2021
- Performed causal analyses to measure effect of LinkedIn Learning features on engagement and revenue

Previous internships at Philips healthcare, IBM research, Koch Institute for cancer research, and Janssen pharmaceuticals

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

Biochemistry, Organic chemistry, Cell biology, Cancer biology, Genetics

Teaching

- Teaching assistant for Introduction to Statistical Data Analysis Spring 2023
- Instructor for Introduction to Statistical Hypothesis Testing Jan 2024
- Carlton E Tucker teaching award from MIT EECS 2024
- Graduate student extraordinary teaching and mentoring award from MIT School of Engineering 2024

Community service

- Mentored undergraduate and master's research projects 2019 – 2023
- Helped under-represented students prepare PhD applications 2020 – 2023
- Organized MIT EECS PhD orientation and visit days 2020 – 2022