

## Professional Experience

**Co-Founder, Advisor** April 2022 - Present

Pelorus Health (EmPower Health), Columbus, OH

Secured \$150K+ in non-dilutive funding to develop a mobile application enabling collaborative type 1 diabetes (T1D) management between children and parents.

**Software Engineer Intern** June 2021 - Aug 2021

J.P. Morgan Chase & Co., Columbus, OH

Built authentication system used across 4,700+ branches (Vue.js, Spring API, Oracle SQL), modeled security risks, and improved verification workflows.

**Graduate Student Research Assistant, CS** Aug 2022 - Present

Emory University, Atlanta, GA

## Education

**Ph.D. Candidate in Computer Science & Informatics** Sept 2022 - Present

Emory University

Tentative Dissertation Title: *Personalizing Clinical Interventions with Multimodal Data and Generative Models: From Population Risk to Self-Management.*

Research Advisor: Joyce C. Ho

**BS-CSE in Computer Science and Engineering** May 2022

The Ohio State University

*Cum Laude.* Honors Research Distinction in Chemistry.

Research Advisor: Heather C. Allen

## Technical Skills

**Languages:** Python, SQL, Java | **ML:** PyTorch, HuggingFace, scikit-learn, RAG pipelines |

**Systems:** Retrieval, ranking, evaluation frameworks | **Tools:** Git, Docker, AWS, GCP

## Honors & Awards

**Honorable Mention, Graduate Research Fellowship Program (GRFP)** 2024

U.S. National Science Foundation (NSF)

**Shankar Fellowship** 2024

Emory University Diabetes Translational Accelerator

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## Selected Publications

- C4 **How Fine-Grained Should a RAG Benchmark Be? A Hierarchical Framework for Synthetic Question Generation**  
Chase Fensore, Kaustubh Dhole, Jason Fan, Joyce C. Ho, Eugene Agichtein  
*SIGIR 2026* - Short Paper. Melbourne, AUS. July 2026.
- C3 **Does Domain-Specific Retrieval Augmented Generation Help LLMs Answer Consumer Health Questions?**  
Chase Fensore, Rodrigo M. Carrillo-Larco, Megha K. Shah, Joyce C. Ho  
*Machine Learning for Healthcare Conference (MLHC 2025)*  
Rochester, Minnesota. Aug 2025. [code] [paper]
- C2 **Does Domain-Specific Retrieval Augmented Generation Help LLMs Answer Consumer Health Questions?**  
Chase Fensore, Rodrigo M. Carrillo-Larco, Megha K. Shah, Joyce C. Ho  
*Machine Learning for Healthcare Conference (MLHC 2025)*  
Rochester, Minnesota. Aug 2025. [code] [paper]
- C1 **Evaluating Safety of Large Language Models for Patient-Facing Medical Question Answering**  
Yella Diekmann, Chase Fensore, Rodrigo M. Carrillo-Larco, Nishant Pradhan, Bhavya Appana, Joyce C. Ho  
*Proceedings of the 4th Machine Learning for Health Symposium (ML4H 2024)*  
Vancouver, Canada. Dec 2024. [code] [paper]
- J1 **Beyond Composite Indices: Comprehensive Social Determinants Improve Heart Failure Readmission Prediction**  
Chase Fensore, Aniruddha Deshpande, Rodrigo M. Carrillo-Larco, Shivani A. Patel,\* Joyce C. Ho\*  
*Journal of the American Heart Association (JAHA)*  
Published online March 28, 2026. Acceptance rate: ~18%. Impact factor: 6.1 (2024). [code] [paper]

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## Selected Talks

2. *Evaluating Hybrid Retrieval Augmented Generation using Dynamic Test Sets.* 3-min [slides]  
LiveRAG Workshop @ SIGIR 2025. July 16, 2025.
1. *Towards Data-driven Measures of Social Determinants – Predictive Modeling and Targeted Health Interventions.* 30-min + Q&A [slides]  
Invited talk at HITI Lab, Emory (PI: Judy Gichoya Hari Trivedi). March, 2024.

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## Service & Leadership

**Reviewing** MLHC (2024-2026), ML4H (2025), SIGIR/ICTIR (2025), JACC (since 2025)

**Leadership** Vice President & Treasurer, OpenBMI (Emory) 2022 - Present

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## Teaching

- **CS-584 Software Engineering in Practice (Graduate)**  
Emory University, Atlanta, Georgia Jan 2026 - May 2026  
*Head Instructor* (13 students)
- **CS-534 Machine Learning (Graduate), CS-334 Machine Learning (Undergraduate)**  
Emory University, Atlanta, Georgia Fall 2024 - Spring 2025  
*Head TA* (58 students)