

# Joyce C Ho

## Assistant Professor, Emory University

Department of Computer Science  
400 Dowman Dr, Atlanta GA 30322  
@ joyce.c.ho@emory.edu joyceho@github.io (404)-727-5605



### EDUCATION

2015	University of Texas, Austin	Ph.D. in Electrical and Computer Engineering
2004	Massachusetts Institute of Technology	M.A. in Electrical Engineering and Computer Science
2003	Massachusetts Institute of Technology	B.S. in Electrical Engineering and Computer Science

### SELECTED AWARDS AND GRANTS

2021	Johnson and Johnson	Decoding Disparities QuickFire Challenge Awardee (\$200,000)
2020	National Science Foundation	Student Travel Grant for SIAM Conference (\$25,000)
2019	AMIA Informatics Summit	Best Student Paper Nomination
2018	National Science Foundation	Collaborative BIGDATA Grant (\$943,057)
2018	National Library of Medicine	NIH Mentored Research Scientists Development Award (\$520,869)
2018	Emory	Center for Faculty Development and Excellence Teaching Fellow
2017	AMIA Informatics Summit	Distinguished Clinical Research Informatics Paper Award

### PROFESSIONAL EXPERIENCE

Current January 2016	<b>Assistant Professor   Computer Science Department, EMORY UNIVERSITY</b> <ul style="list-style-type: none"><li>Lead the Practical Data Mining &amp; Exploration Lab; Supervise undergraduate and graduate students on research into data mining and machine learning. Teach courses on Introduction to Computer Science, Machine Learning, Database Systems, and Big Data Analytics.</li><li>Faculty advisor for Girls Who Code, Emory ProgramHers, and ACM-W.</li></ul>
Current May 2016	<b>Guest Researcher, CENTERS FOR DISEASE CONTROL AND PREVENTION</b> <ul style="list-style-type: none"><li>Research the development and application of data mining and machine learning methods towards better understanding of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.</li></ul>
January 2016 September 2013	<b>Chief Data Scientist, ACCORDION HEALTH INC.</b> <ul style="list-style-type: none"><li>Co-founder; board of directors of healthcare technology company.</li><li>Team lead for 2014 Code-a-Palooza Challenge Awardee (\$10,000).</li><li>Company was acquired by Evolent Health in June 2017.</li></ul>
August 2011 September 2004	<b>System Engineer, LAWRENCE LIVERMORE NATIONAL LABORATORY</b> <ul style="list-style-type: none"><li>Developed streaming and distributed algorithms to detect anomalous network traffic activity.</li><li>Managed a team of developers, planned software releases, and addressed technical issues related to automating laser system calculations and verification.</li></ul>

### SELECTED RECENT PUBLICATIONS

- Jing Ma, Qiuchen Zhang, Jian Lou, Li Xiong, and **Joyce C Ho**. "Communication efficient federated generalized tensor factorization for collaborative health data analytics." In: Proceedings of the Web Conference. 2021, pp. 171–182.
- Jing Zhang, Bonggun Shin, Jinho Choi, and **Joyce C Ho**. "SMAT: An attention-based deep learning solution to the automation of schema matching." In: Proceedings of the 25th European Conference on Advances in Databases and Information Systems. 2021, pp. 260–274.
- Huan He, Yuanzhe Xi, and **Joyce C Ho**. "Fast and accurate tensor decomposition without a high performance computing machine." In: Proceedings of the 2020 IEEE International Conference on Big Data. 2020, pp. 163–170.
- Kejing Yin, Ardavan Afshar, **Joyce C Ho**, William Cheung, Chao Zhang, and Jimeng Sun. "LogPar: Logistic PARAFAC2 factorization for temporal binary data with missing values." In: Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining. 2020, pp. 1625–1635.