Ayan Chatterjee

Summary

I am a Ph.D. candidate working with Prof. Tina Eliassi-Rad at the Network Science Institute, Northeastern University, Boston. My research involves Graph Machine Learning, specifically link prediction, graph embedding, inductive learning, and applying Network Science in Graph Machine Learning with applications to biological networks.

Contact Information

177 Huntington Ave. Boston, MA 02115
E-mail: chatterjee.ay@northeastern.edu
Mobile: (617) 840-8467
Website: https://www.networkscienceinstitute.org/people/ayan-chatterjee

Education

Northeastern University (2019 - Present)
Ph.D. Candidate, Network Science
Network Science Institute
Advisor: Prof. Tina Eliassi-Rad

Recent Publications

1. Ayan Chatterjee, Robin Walters, Zohair Shafi, Omair Shafi Ahmed, Michael Sebek, Deisy Gysi, Rose Yu, Tina Eliassi-Rad, Albert-László Barabási, Giulia Menichetti. 2021. AI-Bind: Improving Binding Predictions for Novel Protein Targets and Ligands. Accepted at Nature Communications. Pre-print: https://arxiv.org/abs/2112.13168.
2. Ayan Chatterjee, Robin Walters, Giulia Menichetti, Tina Eliassi-Rad. 2023. Disentangling Node Attributes from Graph Topology for Improved Generalizability in Link Prediction. Submitted to KDD 2023.
3. Zohair Shafi, Ayan Chatterjee, Tina Eliassi-Rad. 2023. Explaining Node Embeddings. Submitted to KDD 2023.
4. Ayan Chatterjee, Qingtao Cao, Amirhossein Sajadi, Babak Ravandi. 2022. From NetLogo Modeling of Deterministic Random Walk to the Identification of Asymmetric Saturation Time in Random Graphs. Under review at Applied Network Science. Pre-print: https://arxiv.org/abs/2211.05189.
5. Tünde Pacza, Mayara L. Martins, Maha Rockaya, Katalin Müller, Ayan Chatterjee, Albert-László Barabási József Baranyi. 2022. MilkyBase, a database of human milk composition as a function of maternal-, infant- and measurement conditions. Sci Data 9, 557 (2022). DOI 10.1038/s41597-022-01663-1.

Google Scholar

https://scholar.google.com/citations?user=jQWO9kgAAAAJ&hl=en

Work Experience

NVIDIA
Job title: Computer Architect, 2017 to 2019
Job summary: Designing GPU architecture for AI acceleration and ray tracing

LinkedIn

https://www.linkedin.com/in/ayan-chatterjee-a45b2388/