Jingyi Xu

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Education

Ph.D. in Network Science, with a focus on Computer Science   In Progress
Northeastern University, Boston, US
      Research Area: Graph Embedding Techniques.
      Adviser: Prof. Tina Eliassi-Rad
MS in Computer Science   June 2018
University of California, Los Angeles, US
      Thesis: "A Semantic Loss Function for Deep Learning
          with Symbolic Knowledge"
      Adviser: Prof. Guy Van den Broeck
BS in Math, minor in Computer Science   April 2014
University of Michigan, Ann Arbor, US

Publications

A. Current Preprints
  1) Jingyi Xu, Leo Torres, Tina Eliassi-rad, "In-depth Comparison of Graph Embedding Methods", 2021

B. Conference Papers
1) Jingyi Xu, Zilu Zhang, Tal Friedman, Yitao Liang, Guy Van den Broeck. "A Semantic Loss Function for Deep Learning with Symbolic Knowledge", *Proceddings of 35th International Conference on Machine Learning (ICML), 2018*

C. Workshop & Presentations
  1) Jingyi Xu, Leo Torres, Tina Eliassi-Rad. "A Closer Look at Graph Embedding for Graph Reconstruction." *Networks 2021: A Joint Conference of Sunbelt and NetSci, Virtual Conference, July 2021. (poster presentation)*

  2) Jingyi Xu, Leo Torres, Tina Eliassi-Rad. "Comparing Graph Embedding Algorithms Based on their Primary Choices." *The 2020 International Conference on Network Science (NetSci), Virtual Conference, September 2020. (poster presentation)*

  3) Jingyi Xu, Zilu Zhang, Tal Friedman, Yitao Liang and Guy Van den Broeck. "A Semantic Loss Function for Deep Learning Under Weak Supervision". *Conference on Neural Information Processing Systems (NeurIPS), Workshop on Learning with Limited Labeled data: Weak Supervision and Beyond, 2017.* **LLD Best Paper Award Runner-up.**

Grants, Fellowships & Scholarships

2019-2020 First-year PhD Graduate Fellow, Northeastern University.

2012 Wolfson Scholarship (Actuarial Scholarship to Juniors in College), sponsored by UM Math Department.

2007-2010 Singapore Middle School-Based Full Scholarship, sponsored by Singapore Chinese Chamber of Commerce.

Professional Service

A. **Judge & Referee**

1) Triage Judge at The Mathematical Contest in Modeling (MCM) and The Interdisciplinary Contest in Modeling (ICM) 2020.

B. Tutoring

1) Academic Tutor at University Athletic Department of UM, Ann Arbor, MI. 2012-2013
2) Student Leader at Girls in Science and Engineering (GISE) summer camp, Ann Arbor, MI Summer 2012.

Research Experiences

1) Research Assistant at Northeastern University	Boston, MA
Comparing Graph Embedding Methods	2019-present
2) Research Scientist Intern at IBM	Virtual
Adversarial Attack on Time-series Network	Summer 2020
3) Research Assistant at UCLA StarAI Lab	Los Angeles, CA
Applying Constraints on Neural Network	2016-2018
4) Research Assistant at UCLA VCLA Lab	Los Angeles, CA
3D Evacuation Route Planning	Summer 2018

Self-Initiated Project

1) Algorithm Research (solo)   2018
Models the ride-sharing problem of Uber and Lyft into Mutually Exclusive Set Cover Problem.

2) Software Construction Project (joint)   2017
Convert research PDFs into audio files

Professional Skills

Python
Machine Learning Platforms: Pytorch, Keras, Tensorflow
JavaScript, front-end Website, Animation, Computer Graphics
Java
C++

Languages

Proficient in both Chinese and English