Shengyu Feng

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Research Interests

I am broadly interested in various topics of graph-based machine learning, including graph representation learning and structure discovery.

Education

Carnegie Mellon University (CMU) Pittsburgh, PA, U.S.
Ph.D., Language Technology Institute Aug. 2022 – Present
Advisor: Dr. Yiming Yang

University of Illinois at Urbana-Champaign (UIUC) Champaign, IL, U.S.
M.S., Computer Science: *GPA: 3.91/4.00* Aug. 2020 – May 2022
Advisor: Dr. Hanghang Tong

University of Michigan (UMich) Ann Arbor, MI, U.S.
B.S.E., Computer Science: *GPA: 4.00/4.00* Sep. 2018 – May 2020

Shanghai Jiao Tong University (SJTU) Shanghai, China
B.S., Electrical and Computer Engineering: *GPA: 3.67/4.00* Sep. 2016 – Aug. 2020

Research Internship

Microsoft Research Remote
Research intern May 2022 - Aug. 2022
Knowledge-graph enhanced news summarization

Intel AI Lab Remote
Graduate technical intern May 2021 - Aug. 2021
Dynamic scene graph generation

Publications & Preprints

Concept Discovery for Fast Adaptation
Shengyu Feng, Hanghang Tong
Preprint

Exploiting Long-Term Dependencies for Generating Dynamic Scene Graphs
Shengyu Feng, Subarna Tripathi, Hesham Mostafa, Marcel Nassar and Somdeb Majumdar
Preprint

X-GOAL: Multiplex Graph Prototypical Contrastive Learning

Baoyu Jing, Shengyu Feng, Yuejia Xiang, Xi Chen, Yu Chen, Hanghang Tong
*ACM International Conference on Information and Knowledge Management (**CIKM**), 2022*

Adversarial Graph Contrastive Learning with Information Regularization
Shengyu Feng, Baoyu Jing, Yada Zhu and Hanghang Tong
*ACM Web Conference (**WWW**), 2022*

Coreference by appearance: Visually Grounded Event Coreference Resolution
Liming Wang, Shengyu Feng, Xudong Lin, Manling Li, Shih-Fu Chang and Heng Ji
***EMNLP** 2021 Workshop on Computational Models of Reference, Anaphora and Coreference (**CRAC**), 2021*

Batch Reinforcement Learning Through Continuation Method
Yijie Guo, Shengyu Feng, Nicolas Le Roux, Ed Chi, Honglak Lee and Minmin Chen
*International Conference on Learning Representations (**ICLR**), 2021*

Memory Based Trajectory-conditioned Policies for Learning from Sparse Rewards
Yijie Guo, Jongwook Choi, Marcin Moczulski, Shengyu Feng, Samy Bengio, Mohammad Norouzi and Honglak Lee
*Neural Information Processing Systems (**NeurIPS**) 2020*

Honors & Awards

Siebel Scholars for class 2022 (UIUC)	2021
Basketball Data Madness Challenge 2020 Winner (UMich)	2020
University Merit Student (SJTU)	2017, 2018
Interdisciplinary Contest in Modeling Meritorious Winner	2017
Dean's List (UMich, SJTU)	Every semester

Teaching Exeperiences

Teaching Assistant, UIUC — Spring 2021, Fall 2020
CS 445: Computational Photography
Instructor: Derek Hoime

Instructional Aide, UMich — Winter 2020, Fall 2019
EECS 442: Computer Vision
Instructor: Justin Johnson (Winter 2020), David Fouhey (Fall 2019)

Professional Services

Reviewer, *International Conference on Learning Representations (**ICLR**)*, 2023
Reviewer, *Neural Information Processing Systems (**NeurIPS**)*, 2022

Reviewer, *International Conference on Machine Learning (**ICML**)*, 2022
Reviewer, *International Conference on Learning Representations (**ICLR**)*, 2022
Reviewer, *Neural Information Processing Systems (**NeurIPS**)*, 2021

Voluntary Experiences

SJTU Student & Alumni Association, UMich — Sep. 2018 – May 2020
Organizing alumni activities and workshops

Joint Institute Alumni Association, SJTU — Sep. 2017 – May 2018
Collecting alumni contact information and organizing alumni activities

Skills

Programming languages: Python, C/C++, Javascript, Java, R and Matlab
Deep learning frameworks: PyTorch, Tensorflow and Pytorch Geometric