JINNING LI

PhD in Computer Science, University of Illinois at Urbana-Champaign

EDUCATION

University of Illinois at Urbana-Champaign

Aug 2020 - May 2025

Ph.D. Candidate in Computer Science. Advisor: Prof. Tarek Abdelzaher.

University of Illinois at Urbana-Champaign

Aug 2020 - Dec 2022

M.S. in Computer Science. Advisor: Prof. Tarek Abdelzaher.

Shanghai Jiao Tong University

Sep 2015 - Jun 2019

B.S. in Computer Science (ACM Honors Class). Advisors: Prof. Yong Yu and Prof. Xiaofeng Gao.

RESEARCH **INTERESTS**

Social Networks, Data Mining, Graph Mining, Natural Language Processing Recommender Systems, Computer Vision, Autonomous Driving

Industry

Twitter | Applied Research Intern Cortex Research Team

May - Aug 2022

 Enhanced tweet representation learning with a large-scale knowledge graph embedding of non-textual units. Achieved 2%-5% improvements on downstream tasks including hashtag/topic/sentiment prediction and information extraction. Published a paper. 🖪

Pony.ai | Machine Learning Engineer (Full-Time) Perception Team Jul 2019 - Aug 2020

- Fused obstacles (cars, trucks, pedestrians, cyclists) classification system with ResNet and Random Forest, and deployed the model inference with NVIDIA TensorRT.
- Real-time obstacle trajectory prediction for driveway with Random Forest and Recurrent Neural Networks. Reduced 8% disengagement and hard brake issues.

YITU Tech | Research Intern Face Recognition Team

Feb - Jun 2019

• Improved face verification accuracy by 4.8% with the proposed identification-preserving super-resolution algorithm. Published a paper. 🚨

Publications Unsupervised Belief Representation Learning with Variational Graph Auto-Encoders 🚨 📢

Jinning Li, Huajie Shao, Dachun Sun, R. Wang, Y. Yan, J. Li, S. Liu, H. Tong, T. Abdelzaher In International ACM SIGIR Conference (SIGIR) 2022

The Paradox of Information Access: On Modeling Polarization in the Age of Information Chao Xu, Jinyang Li, D. Sun, Jinning Li, T. Abdelzaher, J. Graham, M. Macy, C. Lebiere, B. Szymanski

In IEEE Transactions on Control of Network Systems (TCNS) 2023

Measuring the Effect of Influential Messages on Varying Personas 📙

Chenkai Sun, Jinning Li, Hou Pong Chan, ChengXiang Zhai and Heng Ji In Annual Meeting of the Association for Computational Linguistics (ACL) 2023

Noisy Positive-Unlabeled Learning with Self-Training for Knowledge Graph Reasoning 🚨 Ruijie Wang, Baoyu Li, Yichen Lu, Dachun Sun, Jinning Li, Y. Yan, S. Liu, H. Tong and T. Abdelzaher In Annual Meeting of the Association for Computational Linguistics (ACL) 2023

Unsupervised Image Classification by Ideological Affil. from User-Content Interactions Xinyi Liu, Jinning Li, D. Sun, R. Wang, T. Abdelzaher, M. Brown, A. Barricelli, M. Kirchner and A. Basharat In PhoMemes Workshop at AAAI Conference on Web and Social Media (ICWSM) 2023

NTULM: Enriching Social Media Text Representations with Non-Textual Units 🚨

Jinning Li*, Shubhanshu Mishra*, Ahmed El-Kishky, Sneha Mehta, Vivek Kulkarni

In W-NUT Workshop at International Conference on Computational Linguistics (COLING) 2022

Learning to Sample and Aggregate: Few-shot Reasoning over Temporal K Ruijie Wang, Zheng Li, Dachun Sun, Shengzhong Liu, Jinning Li, Bing Yin, Tarek In Conference on Neural Information Processing Systems (NIPS) 2022	•
Cost Function Learning in Memorized Social Nets with Cognitive Behaving Mao, Jinning Li, Naira Hovakimyan, Tarek Abdelzaher, Christian Lebiere In <i>IEEE Transactions on Computational Social Systems</i> (TCSS) 2022	ioral Asymmetry 🚨
Dissecting Cross-Layer Dependency Inference on Multi-Layered Inter-De Yuchen Yan, Qinghai Zhou, Jinning Li, Tarek Abdelzaher, and Hanghang Tong In International Conference on Information and Knowledge Management (CIKM) 202	
ID Preserving Face Super-Resolution Generative Adversarial Networks Jinning Li, Yichen Zhou, Jie Ding, Cen Chen, Xulei Yang In IEEE Access 2020	90
Scribble-to-Painting Transformation with Multi-Task Generative Adversa Jinning Li, Yexiang Xue	rial Networks 🚨 🕠
In International Joint Conference on Artificial Intelligence (IJCAI) 2019 Senti2Pop: Sentiment-Aware Topic Popularity Prediction on Social Medi Jinning Li, Yirui Gao, Xiaofeng Gao, Yan Shi, Guihai Chen In IEEE International Conference on Data Mining (ICDM) 2019	a 🖟
DancingLines: An Analytical Scheme to Depict Cross-Platform Event Portion Tianxiang Gao, Weiming Bao, Jinning Li , X. Gao, B. Kong, Y. Tang, G. Chen, X. In International Conference on Database and Expert Systems Applications (DEXA) 201	Li
 University of Illinois at Urbana-Champaign Social Sensing, Data Minister Ph.D. Student. Advisor: Prof. Tarek Abdelzaher Unsupervised belief representation learning with VGAE on polarized Developed DARPA Influence Campaign Awareness and SenseMaking 	Aug 2020 - Present d networks.
Purdue University Computer Vision, GANs	<i>0</i>
 Research Intern. Advisor: Prof. Yexiang Xue Oil painting arts generation with multi-task generative adversarial newspapers. 	Sep - Dec 2018 etworks.
Cornell University Counterfactual Machine Learning, Recommendation Syst	tems
Research Intern. Advisor: Prof. Thorsten JoachimsRank 1 in Criteo Advertisement Placement Competition with the p	Jul - Aug 2018 roposed model.
 Shanghai Jiao Tong University Data Mining for Social Networks Research Assistant. Advisor: Prof. Xiaofeng Gao Cross-platform social popularity quantification and alignment. Sentiment-aware topic popularity prediction on social media. 	Jul 2017 - Jun 2019
Zhiyuan International Research Scholarship (First Prize).	2019
Han-Ying-Ju-Hua Scholarship.	2018
Academic Excellence Scholarship of SJTU (First Prize).	2017, 2018
International Interdisciplinary Contest in Modeling (Meritorious Winn	
Zhiyuan Honorary Scholarship. International Mathematical Contest in Modeling (Outstanding Winner)	2016, 2017 r). 2015
Dongrun-Yau International High School Science Award.	2015
Teaching Assistant at CS122: Programming Teaching Assistant at CS307: Operating System Program Committee at AAAI Conference	

Research Experience

Honors and Awards

Academic Services Programming C, C++, Java, Python (TensorFlow, PyTorch, MXNet)
Proficiencies SQL, BigQuery, HTML, Javascript, Matlab, LTEX,