JINNING LI

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

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University of Illinois at Urbana-Champaign **EDUCATION**

Aug 2020 - Present

Ph.D. Student in Computer Science, Department of Computer Science, The Grainger

College of Engineering. Advisor: Prof. Tarek Abdelzaher

Shanghai Jiao Tong University

Sep 2015 - Jun 2019

B.S. in Computer Science (Zhiyuan Honors Degree), ACM Honors Class, Department

of Computer Science. Advisors: Prof. Yong Yu and Prof. Xiaofeng Gao

RESEARCH

Data Mining, Graph Mining, Social Networks, Computer Vision,

INTERESTS

Natural Language Processing, Autonomous Driving.

Publications Scribble-to-Painting Transformation with Multi-Task GANs 🖟 🗘

Jinning Li, Yexiang Xue

In International Joint Conference on Artificial Intelligence (IJCAI) 2019

Senti2Pop: Sentiment-Aware Topic Popularity Prediction on Social Media 💆 📢

Jinning Li, Yirui Gao, Xiaofeng Gao, Yan Shi, Guihai Chen In IEEE International Conference on Data Mining (ICDM) 2019

DancingLines: Depicting Cross-Platform Event Popularity

Tianxiang Gao, Weiming Bao, Jinning Li, X. Gao, B. Kong, Y. Tang, G. Chen, X. Li In International Conference on Database and Expert Systems Applications (DEXA) 2018

ID Preserving Face Super-Resolution Generative Adversarial Networks 🚨 📢

Jinning Li, Yichen Zhou, Jie Ding, Cen Chen, Xulei Yang

In IEEE Access 2020

MANUSCRIPTS Unsupervised Belief Representation Learning with InfoVGAE

Jinning Li, Huajie Shao, Dachun Sun, R. Wang, Y. Yan, J. Li, S. Liu, H. Tong, T. Abdelzaher

Cross-Layer Dependency Inference on Multi-Layered Inter-Dependent Networks

Yuchen Yan, Qinghai Zhou, **Jinning Li**, Tarek Abdelzaher and Hanghang Tong

Cognitive Variational Auto-Encoders for Belief Time Series Prediction

Jinning Li, Jiashu He, Dachun Sun, Tarek Abdelzaher

RESEARCH EXPERIENCE

University of Illinois at Urbana-Champaign Social Sensing, Data Mining, NLP Ph.D. Student

Aug 2020 - Present

- Advisor: Prof. Tarek Abdelzaher
- Unsupervised Belief Representation Learning in Polarized Networks We develop an information-theoretical graph variational autoencoders to learn and disentangle the belief representation from heterogenous polarized social networks.
- Influence Campaign Awareness and SenseMaking (INCAS) Develop a system to detect social influence compaign and predict people's response with text/graph mining and NLP techniques, cooperating with teams from DARPA, Lockheed Martin, USC, and UIUC (Prof. Jiawei Han, Prof. Heng Ji, and Prof. Hanghang Tong).

Purdue University Computer Vision, GANs Research Intern

- Advisor: Prof. Yexiang Xue

Sep - Dec 2018

- Transform Scribbles to Oil Paintings with Multi-Task GANs We introduced Multi-Task Learning to the settings of Generative Adversarial Networks to address the sparsity problem when transforming scribbles into artistic oil paintings.

Cornell University Counterfactual Machine Learning, Recommendation Systems **Research Intern**Jul - Aug 2018

- Advisor: Prof. Thorsten Joachims

Advanced Network Lab, Shanghai Jiao Tong University Data Mining for Social Networks Research Assistant Jul 2017 - Jun 2019

- Advisor: Prof. Xiaofeng Gao
- Cross-Platform Popularity Analysis
 Developed a scheme to quantify topic popularity and analyzed the mechanisms through which an event propagates among multiple social media.
- Sentiment-Aware Topic Popularity Prediction on Short Text based Social Media Developed a novel neural network to estimate public sentiment and integrated it with time series analysis to improve popularity prediction.

Industry Experience

Pony.ai Inc. Perception System for Autonomous Driving Vehicles

Machine Learning Engineer

Jul 2019 - Aug 2020

- Fused Road Obstacle Classification
 Develop obstacle classification system to recognize cars, pedestrian, cyclists with camera and 3D point cloud, helping Autonomous Driving Cars recognize the environment.
- Trajectory Prediction
 Develop a real-time algorithm to predict the moving trajectory of obstacles.

YITU Tech Inc. Face Recognition, Super Resolution

Research Intern Feb - Jun 2019

- Improve Face Recognition with Super-Resolution Algorithm

Develop a super-resolution algorithm to restore low-resolution facial images while preserving the identification, and therefore improve the face recognition task.

Honors	Zhiyuan International Research Scholarship (First Prize).	2019
AND	Han-Ying-Ju-Hua Scholarship.	2018
Awards	Academic Excellence Scholarship of SJTU (First Prize).	2017, 2018
	International Interdisciplinary Contest in Modeling (Meritorious Winner).	2017
	Zhiyuan Honorary Scholarship.	2016, 2017
	International Mathematical Contest in Modeling (Outstanding Winner).	2015
	Dongrun-Yau International High School Science Award.	2015

ACADEMIC Teaching Assistant at CS122: Programming
Services Teaching Assistant at CS307: Operating System
Reviewer for IJCAI, AAAI, WWW conferences

Programming C, C++, Java, Python (TensorFlow, PyTorch, MXNet)

Proficiencies HTML & Javascript, Matlab, LTEX,