

JINNING LI




PHD IN COMPUTER SCIENCE, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

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- EDUCATION** **University of Illinois at Urbana-Champaign** 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 INTERESTS** Data Mining, Graph Mining, Social Networks, Computer Vision,
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 heterogeneous polarized social networks.
- Influence Campaign Awareness and SenseMaking (INCAS)
Develop a system to detect social influence campaign 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 Sep - Dec 2018
- Advisor: Prof. Yexiang Xue
- 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](#)- Ad Placement Challenge on Criteo Dataset   

We develop a joint method of Counterfactual Risk Minimization and MLE. Our score places **Rank 1** in [NIPS 2017 Workshop: Criteo Ad Placement Challenge](#).

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**Pony.ai Inc.** *Perception System for Autonomous Driving Vehicles***EXPERIENCE****Algorithm 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.

HONORSZhiyuan International Research Scholarship (*First Prize*).

2019

AND

Han-Ying-Ju-Hua Scholarship.

2018

AWARDSAcademic 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)

PROFICIENCIESHTML & Javascript, MATLAB, \LaTeX ,