

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

HONORS	Zhiyuan International Research Scholarship (<i>First Prize</i>).	2019
AND	Han-Ying-Ju-Hua Scholarship.	2018
AWARDS	Academic Excellence Scholarship of SJTU (<i>First Prize</i>).	2017, 2018
	International Interdisciplinary Contest in Modeling (<i>Meritorious Winner</i>).	2017
	Zhiyuan Honorary Scholarship.	2016, 2017
	International Mathematical Contest in Modeling (<i>Outstanding Winner</i>).	2015
	Dongrun-Yau International High School Science Award.	2015
ACADEMIC SERVICES	<i>Teaching Assistant</i> at CS122: Programming	
	<i>Teaching Assistant</i> at CS307: Operating System	
	<i>Reviewer</i> for IJCAI, AAI, WWW conferences	
PROGRAMMING PROFICIENCIES	C, C++, Java, Python (TensorFlow, PyTorch, MXNet)	
	HTML & Javascript, MATLAB, \LaTeX ,	