

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, Natural Language Processing, Social Networks, Computer Vision, Autonomous Driving.



PUBLICATIONS **Unsupervised Belief Representation Learning with InfoVGAE**  
Jinning Li, Huajie Shao, Dachun Sun, R. Wang, Y. Yan, J. Li, S. Liu, H. Tong, T. Abdelzaher
In the 45th International ACM SIGIR Conference (**SIGIR**) 2022

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: An Analytical Scheme to Depict 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

RESEARCH EXPERIENCE **University of Illinois at Urbana-Champaign** *Social Sensing, Data Mining, NLP*
Ph.D. Student. Advisor: Prof. Tarek Abdelzaher Aug 2020 - Present

- 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.




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. Advisor: Prof. Thorsten Joachims Jul - Aug 2018

- 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. Advisor: Prof. Xiaofeng Gao Jul 2017 - Jun 2019

- 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 **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, AAI, WWW conferences

PROGRAMMING C, C++, Java, Python (TensorFlow, PyTorch, MXNet)
PROFICIENCIES HTML & Javascript, MATLAB, L^AT_EX,