

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
- 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: 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
- MANUSCRIPTS**
- Unsupervised Belief Representation Learning in Polarized Networks**
Jinning Li, Huajie Shao, Dachun Sun, R. Wang, J. Li, S. Liu, T. Abdelzaher
Submission to *ICWSM* 2021
- RESEARCH EXPERIENCE**
- Social Sensing Group, University of Illinois at Urbana-Champaign** Aug 2020 - Present
Ph.D. Student
- Advisor: Prof. Tarek Abdelzaher
- Unsupervised Belief Representation Learning in Polarized Networks
We develop a Controllable Graph Variational Autoencoders to learn and disentangle the belief representation from heterogenous polarized social networks.
- Machine Learning Group, Purdue University** Sep - Dec 2018
Research Intern
- 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.
- Counterfactual Machine Learning Group, Cornell University** Jul - Aug 2018
Research Intern
- 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*.
- Data Mining Group, Advanced Network Lab, Shanghai Jiao Tong University** Jul 2017 - Jun 2019
Research Assistant
- 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

Perception for Autonomous Driving Vehicles, Pony.ai Inc.

Algorithm Engineer

Jul 2019 - Aug 2020

- Fused Road Obstacle Classification
Develop obstacle classification system to recognize cars, pedestrian, cyclists, etc 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.

Face Recognition Team, YITU Tech Inc.

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
AND
AWARDS

- Zhiyuan Scholarship for International Research (*First Prize*). 2019
- Han-Ying-Ju-Hua Scholarship. 2018
- Academic Excellence Scholarship of SJTU (*First Prize*). 2017
- 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

TEACHING
EXPERIENCE

Teaching Assistant at MS100: Operating System

Spring 2018

Teaching Assistant at CS122: Programming

Fall 2016

PROGRAMMING
PROFICIENCIES

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

HTML & Javascript (D3.js), MATLAB, L^AT_EX, Verilog HDL