

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

Ph.D. Student

Aug 2020 - Present

- 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

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.

Counterfactual Machine Learning Group, Cornell University

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*.

Data Mining Group, Advanced Network Lab, Shanghai Jiao Tong University

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

Perception for Automatic 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 automatic driving car 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 (<i>First Prize</i>).	2019
Han-Ying-Ju-Hua Scholarship.	2018
Academic Excellence Scholarship of SJTU (<i>First Prize</i>).	2017
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

TEACHING EXPERIENCE

<i>Teaching Assistant</i> at MS100: Operating System	Spring 2018
<i>Teaching Assistant</i> at CS122: Programming	Fall 2016

PROGRAMMING PROFICIENCIES

C/C++, Java, Python (TensorFlow, PyTorch, MXNet)
HTML & Javascript (D3.js), MATLAB, L^AT_EX, Verilog HDL