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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
Bachelor of Engineering (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
- RESEARCH EXPERIENCE**
- Social Sensing Group, University of Illinois at Urbana-Champaign**
Ph.D. Student Aug 2020 - Present
- Advisor: Prof. Tarek Abdelzaher
 - **Graph Variational Autoencoders for Social Network Polarization**
 We build a heterogenous graph containing both the users and their claims on social network, and use Graph Variational Autoencoders to analyze their polarization property towards a social topic.
- Machine Learning Group, Purdue University**
Visiting Undergraduate 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 of scribbles when transforming them into artistic oil paintings. (IJCAI 2019 Published)
- Counterfactual Machine Learning Group, Cornell University**
Visiting Undergraduate Research Intern Jul - Aug 2018
- Advisor: Prof. Thorsten Joachims
 - **Improve Supervised Learning on Logged Bandit Feedbacks**
 Straightforward supervised learning often leads to large bias. We improved supervised methods by applying *inverse propensity weighting* to balance the bias-variance tradeoff.
 - **A Hybrid Method of Counterfactual Risk Minimization and Supervised Learning.**  
 Designed a hybrid loss function not only learns the feedback of logged action, but also minimizes counterfactual risk for all the candidates in a batch.
 - **Ad Placement Challenge on Criteo Dataset** 
 Implemented our methods to learn an ad placement policy. Our method achieved **Rank 1** in *NIPS 2017 Workshop: Criteo Ad Placement Challenge* (post-challenge).

Data Mining Group, Advanced Network Lab, Shanghai Jiao Tong University*Research Assistant*

Jul 2017 - Jun 2019

- Advisor: Prof. [Xiaofeng Gao](#)- **Cross-Platform Event Popularity Analysis.**

Developed a scheme to quantify event popularity and analyzed the mechanisms through which an event propagates among multiple social media. (DEXA 2018 Published)

- **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. (ICDM 2019 Accepted)

**INDUSTRY
EXPERIENCE****Automatic Driving Perception, Pony.ai Inc.** *Algorithm Engineer* Jul 2019 - Aug 2020- **Fused Road Obstacle Classification.**

Develop obstacle classification system to recognize cars, pedestrian, cyclists, etc with videos and 3D point cloud, helping automatic driving car recognize the environment.

- **Trajectory Prediction.**

Develop algorithm to predict the trajectory of one object with historical information.

Computer Vision 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 Overseas Visiting Study (*First Prize*). 2019

Han-Ying-Ju-Hua Scholarship. 2018

Academic Excellence Scholarship of SJTU (*First Prize*). (*Top 5%*) 2017International Interdisciplinary Contest in Modeling (*Meritorious Winner*). (*Top 7%*) 2017

Zhiyuan Honorary Scholarship. 2016, 2017

International Mathematical Contest in Modeling (*Outstanding Winner*). (*Top 1%*) 2015Dongrun-Yau International High School Science Award. (*Top 1%*) 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, \LaTeX , Verilog HDL