









EDUCATION	<p>University of Illinois at Urbana-Champaign Fall 2020 - Present <i>Ph.D. in Computer Science, Computer Science, The Grainger College of Engineering</i></p> <p>Shanghai Jiao Tong University Sep 2015 - Jun 2019 <i>Bachelor of Engineering (Zhiyuan Honors Degree), Computer Science, ACM Honors Class</i> - Research Interests: Social Sensing, Data Mining, Computer Vision, NLP</p>
PUBLICATIONS	<p>Scribble-to-Painting Transformation with Multi-Task GANs   Jinning Li, Yexiang Xue In <i>International Joint Conference on Artificial Intelligence (IJCAI)</i> 2019</p> <p>Senti2Pop: Sentiment-Aware Topic Popularity Prediction on Social Media  Jinning Li, Yirui Gao, Xiaofeng Gao, Yan Shi, Guihai Chen In <i>IEEE International Conference on Data Mining (ICDM)</i> 2019</p> <p>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 <i>International Conference on Database and Expert Systems Applications (DEXA)</i> 2018</p> <p>ID Preserving Face Super-Resolution Generative Adversarial Networks   Jinning Li, Yichen Zhou, Jie Ding, Cen Chen, Xulei Yang In <i>IEEE Access</i></p>
RESEARCH EXPERIENCE	<p>Machine Learning Group, Purdue University <i>Visiting Undergraduate Research Intern</i> Sep - Dec 2018 - Advisor: Prof. Yexiang Xue - Transform Scribbles to Oil Paintings with Multi-Task GANs. We introduced <i>Multi-Task Learning</i> to the settings of <i>Generative Adversarial Networks</i> to address the sparsity problem of scribbles when transforming them into artistic oil paintings. (IJCAI 2019 Published)</p> <p>Counterfactual Machine Learning Group, Cornell University <i>Visiting Undergraduate Research Intern</i> 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 <i>inverse propensity weighting</i> 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 <i>NIPS 2017 Workshop: Criteo Ad Placement Challenge</i> (post-challenge).</p> <p>Data Mining Group, Advanced Network Lab, Shanghai Jiao Tong University <i>Research Assistant</i> 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)</p>

	<ul style="list-style-type: none"> - 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. <i>Algorithm Engineer</i> Jul 2019 - Aug 2020 <ul style="list-style-type: none"> - 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. <i>Research Intern</i> Feb - Jun 2019 <ul style="list-style-type: none"> - 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. 	
HIGHLIGHTED COURSE PROJECTS	DeepWave: Learning to Simulate Water Wave in Real-time   CS230 <i>Virtual Reality and Interactive 3D Graphics</i> , 96/100 Jun 2018 Developed a method to learn the physical law of water-wave propagation and simulate the scene in real-time utilizing deep learning and wave packet theory.	
	Convolutional BiMPM for Natural Language Inference   CS229 <i>Natural Language Processing</i> , 93/100 May 2018 Proposed a novel convolutional bilateral multi-perspective matching model for natural language inference task on SNLI dataset, improving the accuracy to 86.7%.	
	LineArtist: A Multi-style Sketch to Painting Synthesis Scheme    CS348 <i>Computer Vision</i> , 92/100 Dec 2017 Developed a scheme to synthesize beautiful paintings with only some semantic sketches, including three procedures: <i>Sketch Image Extraction</i> , <i>Details Synthesis</i> , and <i>Style Transfer</i> .	
	Compiler Maple  MS208 <i>Compiler Design and Implementation</i> , Outperforms GCC -O1 May 2017 Designed and implemented a compiler from <i>Lexical Analysis</i> to <i>Register Allocation</i> with graph-coloring optimization, translating Mx* (a hybrid of C and Java) to x86 Assembly.	
HONORS AND AWARDS	Zhiyuan Scholarship for Overseas Visiting Study (<i>First Prize</i>). 2019 Han-Ying-Ju-Hua Scholarship. 2018 Academic Excellence Scholarship of SJTU (<i>First Prize</i>). (<i>Top 5%</i>) 2017 International Interdisciplinary Contest in Modeling (<i>Meritorious Winner</i>). (<i>Top 7%</i>) 2017 Zhiyuan Honorary Scholarship. 2016, 2017 International Mathematical Contest in Modeling (<i>Outstanding Winner</i>). (<i>Top 1%</i>) 2015 Dongrun-Yau International High School Science Award. (<i>Top 1%</i>) 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, \LaTeX , Verilog HDL	