

Shuangrui DING

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EDUCATION

University of Michigan	Ann Arbor, MI
B.S.E. in Computer Science	<i>Sept 2019 - May 2021(expected)</i>
Overall GPA: 4.0/4.0	
University of Michigan - Shanghai Jiao Tong University Joint Institute	Shanghai, China
B.S.E in Electrical and Computer Engineering	<i>Sept 2017 - Aug 2021(expected)</i>
Overall GPA: 3.82/4.0 , Rank: 13/253 .	

PUBLICATIONS AND MANUSCRIPTS(* INDICATES EQUAL CONTRIBUTION)

[1] Jiaqi Ma*, Shuangrui Ding*, Qiaozhu Mei, "Black-Box Adversarial Attacks on Graph Neural Networks with Limited Node Access", <https://arxiv.org/abs/2006.05057>

RESEARCH EXPERIENCES

Foreseer Group, UM	<i>Oct 2019 - June 2020</i>
<i>Research Assistant, Supervised by Prof. Mei</i>	
Project 1: Adversarial attack on graph neural networks	<i>Feb 2020 - June 2020</i>
Objective: Conduct a black-box attack on general GNN models	
<ul style="list-style-type: none">Propose a novel setup of black-box attack on GNNs with limited node access.Demonstrate that the structural inductive biases of GNNs can be exploited as source of black-box attacks and analyze the discrepancy between classification loss and accuracy.Propose and verify empirically a practical greedy method to attack node classification tasks.	
Project 2: Adversarial GAT	<i>Oct 2019 - Jan 2020</i>
Objective: Build interpretable GNN models through the adversarial attention mechanism	
<ul style="list-style-type: none">Propose a new model design to make the attention attribute of GAT model more expressive.	
John Hopcroft Center for Computer Science, SJTU	<i>Jan 2019 - Jun 2019</i>
<i>Research Assistant, Supervised by Prof. Jin</i>	
Project: Shenzhen traffic prediction	
Objective: Predict passenger flow for scheduling a dynamic bus timetable	
<ul style="list-style-type: none">Implement the crawling of Shenzhen traffic data using Python and Gaode APIVisualize the number of passengers during unit time section on each bus per station	

AWARDS

UM Dean's List	Dec 2019
SJTU Undergraduate Excellent Scholarship	Nov 2018&2019
UM-SJTU Junyuan Tang Scholarship Candidate	Aug 2019
Finalist in Mathematical Contest in Modeling (Top 0.3%)	Apr 2019
UM-SJTU John Wu & Jane Sun Sunshine Scholarship (Top 5%)	Nov 2018
National Scholarship (Top 2%)	Sep 2018

SKILLS

Programming Languages: Python(Pytorch), C/C++, Java, SQL, Matlab
Natural Languages: Chinese, English