Last Updated: Oct. 2021

SHANGJIE XUE

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Sept. 2021 - Present

Ph.D. student in Computer Science

Massachusetts Institute of Technology, Cambridge, MA

Sept. 2021

Master of Science in Nuclear Science and Engineering

Master of Science in Electrical Engineering and Computer Science

Peking University, Beijing, China

July 2018

Bachelor of Science in Physics

EXPERIENCE

Research Assistant Sept. 2021 - Present

Borg Lab, Georgia Institute of Technology Advisor: Frank Dellaert

Research Assistant Sept. 2019 - Aug. 2021

Department of NSE, Massachusetts Institute of Technology Advisor: Lin-Wen Hu, Mingda Li

Research Intern June 2020 - Dec. 2020

Uber ATG, Toronto Advisor: Raquel Urtasun, Shenlong Wang

Undergraduate Researcher

2015 - 2018

School of Physics, Peking University

Advisor: Yuan Li

Visiting Student Researcher

Summer 2017

Department of Physics, Massachusetts Institute of Technology Advisor: Riccardo Comin

SELECTED PUBLICATIONS

- Y. Chen* F. Rong*,S. Duggal* S. Wang, X. Yan, S. Manivasagam, <u>S. Xue</u>, E. Yumer, R. Urtasun[†], GeoSim: Photorealistic Image Simulation with Geometry-Aware Compositionfor Self-Driving, <u>CVPR</u> 2021 (Oral, Best paper candidate), <u>arxiv:2101.06543</u>.
- L. Yue*, <u>S. Xue</u>*, J. Li*, W. Hu, A. Barbour, F. Zheng, L. Wang, J. Feng, S. B. Wilkins, C. Mazzoli, R. Comin[†] and Y. Li[†], "Distinction between pristine and disorder-perturbed charge density waves in ZrTe₃", <u>Nature Communications</u> 11, no. 1 (2020): 1-8.
- W. Yao*, C. Li*, L. Wang*, <u>S. Xue</u>, Y. Dan, K. Iida, K, Kamazawa, K. Li, C. Fang[†], Y. Li[†], "Topological spin excitations observed in a three-dimensional antiferromagnet", <u>Nature Physics</u> 14, no. 10 (2018): 1011-1015. (* : Equal contribution, † : Corresponding author)

SKILLS

- Programming: Python, C/C++, Matlab
- Tools/Software: ROS, PyTorch, Tensorflow, Keras, GTSAM, DRAKE, Arduino, PyQt, Blender, SolidWorks, LATEX

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SELECTED AWARDS AND HONORS

• "Manson Benedict" Fellowship at MIT	2018 - 2019
• "Merit Student Award" at Peking University	2015 & 2016
• "Wei Lin" Scholarship at Peking University	2016
• "Tung OOCL" Scholarship at Peking University	2015
• "Meritorious Winner" in Mathematical Contest in Modeling (MCM)	2015