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 *Electrical Engineering and Computer Science*
Master of Science in *Nuclear Science and Engineering*

Peking University, Beijing, China   July 2018

Bachelor of Science in *Physics*

Experience

Research Assistant   Sept. 2021 - Present

The 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, **S. Xue**, E. Yumer, R. Urtasun[†], GeoSim: Photorealistic Image Simulation with Geometry-Aware Compositionfor Self-Driving, **CVPR** 2021 (Oral, Best paper candidate), **arxiv:2101.06543**.

- L. Yue*, **S. Xue**, 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 $ZrTe_3$", **Nature Communications** 11, no. 1 (2020): 1-8.

- W. Yao*, C. Li*, L. Wang*, **S. Xue**, Y. Dan, K. Iida, K, Kamazawa, K. Li, C. Fang[†], Y. Li[†], "Topological spin excitations observed in a three-dimensional antiferromagnet", **Nature Physics** 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

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