

Xilai Li

CONTACT INFORMATION

Email: xli47@ncsu.edu
Phone: +1-(919)-239-6559
Website: xilaili.github.io

RESEARCH INTERESTS

My research focuses on computer vision and machine learning, in particular novel deep convolutional neural network architectures, explainable learning model and its application on various visual recognition tasks.

EDUCATION

North Carolina State University Aug 2014 – present
Ph.D. in Electrical Engineering, GPA: 3.93
Advisor: Prof. Tianfu Wu

University of Science and Technology of China Aug 2010 – Jun 2014
B.S. in Physics, GPA: 3.6

RESEARCH EXPERIENCE

Research Assistant, North Carolina State University Jan 2017 – present
Department of Electrical and Computer Engineering
Advisor: Prof. Tianfu Wu

Research Assistant, North Carolina State University Aug 2014 – Dec 2016
Department of Electrical and Computer Engineering
Advisor: Prof. Ki Wook Kim

PUBLICATIONS

MANUSCRIPTS

1. Xilai Li, Tianfu Wu*, Xi Song and Hamid Krim, “AOGNets: Deep AND-OR Grammar Networks for Visual Recognition”, arXiv 1711.05847
2. Tianfu Wu*, Xilai Li, Xi Song, Wei Sun, Liang Dong and Bo Li, “Interpretable R-CNN”, arXiv 1711.05226

JOURNALS

1. Xi-Lai Li, Xiaopeng Duan, Yuriy G. Semenov, and Ki Wook Kim*, “Electrical switching of antiferromagnets via strongly spin-orbit coupled materials”, *Journal of Applied Physics* 121, 023907 (2017)
2. Yuriy G. Semenov, Xi-Lai Li, and Ki Wook Kim*, “Currentless reversal of Néel vector in antiferromagnets”, *Phys. Rev. B* 95, 014434 (2017)
3. Xiaopeng Duan, Xi-Lai Li, Yuriy G. Semenov, and Ki Wook Kim*, “Nonlinear magnetic dynamics in a nanomagnet–topological insulator heterostructure”, *Phys. Rev. B* 92, 115429 (2015)
4. Xiaopeng Duan, Xi-Lai Li, Xiaodong Li, Yuriy G. Semenov, and Ki Wook Kim*, “Highly efficient conductance control in a topological insulator based magnetoelectric transistor”, *Journal of Applied Physics* 118, 224502 (2015)

CONFERENCES

1. Xi-Lai Li, Xiaopeng Duan, Yuriy G. Semenov, Ki Wook Kim*, “Electrically controlled switching of antiferromagnets via proximity interaction induced by topological insulator”, 74th Annual Device Research Conference (DRC) 2016.

PRESENTATIONS

- DRC’16, University of Delaware, Newark, DE, 06/2016

AWARDS & SCHOLARSHIPS

- Second Prize Scholarship, University of Science and Technology of China, 2013
- Zhang Zongzhi Technology Scholarship, University of Science and Technology of China, 2012
- Second Prize Scholarship, University of Science and Technology of China, 2011
- Third Prize Freshman Scholarship, University of Science and Technology of China, 2010
- First Prize in National High School Olympic Competition in Chemistry, Chinese Chemical Society, 2009