

Jiarui Li

Massachusetts Institute of Technology
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Educational Background

Department of Physics, Massachusetts Institute of Technology	Beijing, China
Research Assistant	Sep. 2016 – Present
School of Physics, Peking University	Beijing, China
Bachelor of Science (Hons.)	Sep. 2012 – Jun. 2016
Institute of Physics, Chinese Academy of Sciences	Beijing, China
Internship	Jun. 2014 – Jun. 2016

Research Experiences

Department of Physics, Massachusetts Institute of Technology	Cambridge, MA
Advisor: Prof. Riccardo Comin (Photon Scattering Lab)	Sep. 2016 – Present

- Investigation of charge and magnetic orders in strongly correlated cuprates and nickelates.
- Development of soft X-ray nanobeam scattering technique.
- Studies of Raman scattering in strongly correlated materials.

School of Physics, Peking University	Beijing, China
Advisor: Prof. Yuan Li (International Center for Quantum Materials)	Mar. 2014 – Jun. 2016

- Synthesis, doping control and scattering studies of $\text{HgBa}_2\text{CaCu}_2\text{O}_6$.
- Studies of the nematic order and superconductivity in iron based superconductors.
- Investigation of charge orders in 2D materials.

Institute of Physics, Chinese Academy of Sciences	Beijing, China
Advisor: Prof. Xingjiang Zhou (National Lab for Superconductivity)	Jul. 2014 – Present

- Instrumentation of table top 11eV vacuum ultraviolet laser.
- Investigations of band gap engineering in transitional metal dichalcogenides.
- Installation of a new big-momentum and ultralow-temperature ARPES system.

Publications

Xiao Ren, Lian Duan, Yuwen Hu, **Jiarui Li**, Rui Zhang, Huiqian Luo, Pengcheng Dai, and Yuan Li.
“Nematic crossover in BaFe_2As_2 under uniaxial stress”. [Phys. Rev. Lett. 115, 197002](#)

Conferences

Poster “Synthesis, doping control and Raman scattering study of high-quality $\text{HgBa}_2\text{CaCu}_2\text{O}_6$ ”.
Max Planck Institute for Solid State Research, Stuttgart, Germany. Jul. 2015

Honours & Awards

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| • Outstanding graduates, Peking University | 2016 |
| • Successful participant of Mathematical Contest Modeling | 2015 |
| • Wang’s Scholarship and Outstanding University Student Award (1 st in 78 awarded students) | 2015 |
| • Weiming Xuezi Scholarship, School of Physics (awarded to top 35 in Physics Department) | 2015 |
| • Second Prize of China Undergraduate Mathematical Contest in Modeling (national) | 2015 |
| • All-round Excellent Student of Peking University (Top 5%) | 2015 |
| • Tung OOCL Scholarship, Peking University (4 in 229) | 2015 |
| • Excellent Prize of University Volunteer Work (national, top 20 teams in 158) | 2014 |
| • Weiming Xuezi Scholarship, School of Physics (awarded to top 25 in Physics Department) | 2014 |
| • Second Prize of China Undergraduate Mathematical Contest in Modeling (national) | 2014 |
| • Kwang-Hua Scholarship, Peking University (5 in 223) | 2014 |
| • Special Prize of University Physics Competition in China (national, 1 st in 1,000) | 2013 |
| • Kwang-Hua Scholarship, Peking University (6 in 219) | 2013 |