

Xiao Xue

Ph.D. Candidate in Physics (2nd year) Tsinghua University

personal

Born Jan.1992
Shandong Province
China

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languages

Chinese/English

education

- since 2014 **Ph.D. Candidate in Physics, Tsinghua University** Beijing, P.R.China
Center for Quantum Information,
Institute for Interdisciplinary Information Sciences (IIIS)
Majoring in Quantum Information Science
- Feb-June 2014 **Visiting Student, Tsinghua University** Beijing, P.R.China
Center for Quantum Information,
Institute for Interdisciplinary Information Sciences (IIIS)
- 2010–2014 **B.Sc. Degree in Applied Physics, University of Science and Technology of China (USTC)** Heifei, P.R.China
School of Physics
Majoried in Condensed Matter Physics

research experience

- Aug 2014- **Ph.D. Research at Tsinghua**
supervised by Prof.Luming Duan&Dr.Yipu Song
Gate-confined Quantum Dots in Graphene see more

*Fabricate single and double quantum dots in bilayer graphene;
Carry out Low-T measurement in dilution refrigerator;
Observe confinement in single quantum dot (Coulomb Blockade&Coulomb Diamond).*
- Feb-June 2014 **B.Sc. Thesis at Tsinghua**
supervised by Prof.Luming Duan
Laser Filter in Quantum Memory with Cold Atoms see more

*Design a Fabry-Pérot Cavity as a laser filter and get better idler photons signal in background of strong reading laser;
Build an optical systems to get the saturated absorption spectroscopy of ^{87}Rb atoms;
Participate to set up a commercial Magneto-Optical Trap (MOT) of ^{87}Rb atoms.*
- 2012-2013 **Research Assistant in USTC**
mentored by Prof.Chaoyang Lu
Multi-Photon Entanglement see more

*Participate to build an system of entangled photon pairs generated by SPDC;
Study Theory of Quantum Computation and Quantum Measurement.*

experiment skills

Clean Room	E-Beam Lithography, Photolithography, E-Beam Evaporation, Atomic Force Microscopy, Raman Spectroscopy, ICP, PECVD, Probe Station, Wire Bonder, Profilometer, Plasma Cleaning
Low-T Tech	Operation of Dilution Refrigerator
Optics	Building Optical Paths on Platform

computer skills

Programming	C, MATLAB, Mathematica, GitHub
Data&Simulation	COMSOL, Origin, R
Machine Drawing	AutoCAD, Solidworks
Document&Website	HTML, CSS, JavaScript, L^AT_EX, Photoshop

scholarships

2014-2019	5-Year Scholarship for Ph.D. Student of Tsinghua Univ.
2012	USTC Outstanding Student Scholarship (Grade 2, top 10% annually)
2011	USTC Outstanding Student Scholarship (Grade 3, top 20% annually)

standardized test

GRE	Verbal: 149 Quantitative: 164 Analytical Writing: 3.5
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interests

Tennis, Ping-Pong, Badminton, Cycling, Moutaineering
Programming, History of Science