Xiao Xue

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

personal

Born Jan. 1992 Shandong Province

China

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China

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education

since 2014 Ph.D. Candidate in Physics, Tsinghua University

Center for Quantum Information,

Institute for Interdisciplinary Information Sciences (IIIS)

Majoring in Quantum Information Science

Feb-June 2014 Visiting Student, Tsinghua University

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) School of Physics

Majored 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

Beijing, P.R.China

Beijing, P.R.China

Heifei, P.R.China

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 87Rb

atoms

2012-2013 Research Assistant in USTC

> mentored by Prof.Chaovang 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, LATEX, 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

interests

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