

Xiao Xue

Prospective Student from China

personal

Born Jan.1992
Shandong Province
China

address

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contact

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languages

Chinese/English

education

- 2014-2016 Graduate Study, **Tsinghua University** Beijing, P.R.China
Center for Quantum Information,
Institute for Interdisciplinary Information Sciences (IIIS)
Research 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)** Hefei, P.R.China
School of Physics
Majored in Condensed Matter Physics

previous research experience

- Aug.2016 **Research Internship at EPFL**
supervised by Prof.Tobias Kippenberg
Cavity Optomechanics with Superconducting Circuits

Mechanical Simulation (COMSOL) & Fabrication of optomechanical system .
- 2014-2016 **Research Assistant at Tsinghua**
supervised by Prof.Luming Duan&Dr.Yipu Song
Gate-confined Quantum Dots in Graphene

*Fabricate single and double quantum dots in bilayer graphene;
Observe confinement in single quantum dot (Coulomb Blockade&Coulomb Diamond).*
- Feb-June 2014 **B.Sc. Thesis at Tsinghua**
supervised by Prof.Luming Duan
Quantum Memory with Cold Atoms

*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;
Set up commercial Magneto-Optical Trap (MOT) of ^{87}Rb atoms.*
- 2012-2013 **Research Assistant in USTC**
mentored by Prof.Chaoyang Lu
Multi-Photon Entanglement

*Participate to build a 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 Systems on Platform**

computer skills

Programming **C, Python, MATLAB, Mathematica, GitHub**

Data&Simulation **COMSOL, Sonnet, Origin, R**

Machine Drawing **AutoCAD, Solidworks**

Document&Website **HTML, CSS, JavaScript, \LaTeX , Photoshop**

publication

2016 **Coulomb oscillations in a gate-controlled few-layer graphene quantum dot**

Nano Letters 16.10 (2016)

scholarships

2012 **USTC Outstanding Student Scholarship (Grade 2, top 10% annually)**

2011 **USTC Outstanding Student Scholarship (Grade 3, top 20% annually)**

interests

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