Xiao **Xue**

Prospective Student from China

personal

Born Jan.1992
Shandong Province
China

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Switzerland

contact

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languages

Chinese/English

education

Aug.2016- Internship**, École Polytechnique Fédérale de Lausanne** Lausanne, Switzerland
Institute of Physics
Research Intern in Cavity Quantum Optomechanics

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

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;
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
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;
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

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**

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