

# Xiao Xue

PhD Candidate École Polytechnique Fédérale de Lausanne

## personal

Born Jan.1992  
Shandong Province  
China

## address

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## contact

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## languages

Chinese/English

## education

2016-	PhD Candidate, <b>École Polytechnique Fédérale de Lausanne</b> Institute of Physics Research in Quantum Optomechanics and Quantum Device	Switzerland
2014-2016	Graduate Student, <b>Tsinghua University</b> Center for Quantum Information, Institute for Interdisciplinary Information Sciences (IIIS) Research in Quantum Information Science	Beijing, P.R.China
Feb-June 2014	Visiting Student, <b>Tsinghua University</b> Center for Quantum Information, Institute for Interdisciplinary Information Sciences (IIIS)	Beijing, P.R.China
2010-2014	<b>B.Sc.</b> Degree in Applied Physics, <b>University of Science and Technology of China (USTC)</b> School of Physics Majored in Condensed Matter Physics	Hefei, P.R.China

## previous research experience

2014-2016	<b>Research Assistant at Tsinghua</b> <i>supervised by Prof.Luming Duan&amp;Dr.Yipu Song</i> <b>Gate-confined Quantum Dots in Graphene</b>  <i>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&amp;Coulomb Diamond).</i>
Feb-June 2014	<b>B.Sc. Thesis at Tsinghua</b> <i>supervised by Prof.Luming Duan</i> <b>Quantum Memory with Cold Atoms</b>  <i>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 <math>^{87}\text{Rb}</math> atoms; Participate to set up a commercial Magneto-Optical Trap (MOT) of <math>^{87}\text{Rb}</math> atoms.</i>
2012-2013	<b>Research Assistant in USTC</b> <i>mentored by Prof.Chaoyang Lu</i> <b>Multi-Photon Entanglement</b>  <i>Participate to build a system of entangled photon pairs generated by SPDC; Study theory of Quantum Computation and Quantum Measurement.</i>

## experiment skills

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

## computer skills

Programming	<b>C, MATLAB, Mathematica, GitHub</b>
Data&Simulation	<b>COMSOL, Origin, R</b>
Machine Drawing	<b>AutoCAD, Solidworks</b>
Document&Website	<b>HTML, CSS, JavaScript, <math>\LaTeX</math>, Photoshop</b>

## scholarships

2012	<b>USTC Outstanding Student Scholarship (Grade 2, top 10% annually)</b>
2011	<b>USTC Outstanding Student Scholarship (Grade 3, top 20% annually)</b>

## interests

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