

personal

Born Jan. 1992 Shandong Province

China

address

EPFL-SB-IPHYS-

LPQM Station 3

CH-1015 Lausanne

Switzerland

contact

xueqinfo@gmail.com

languages Chinese/English education

Internship, École Polytechnique Fédérale de Lausanne Lausanne, Switzerland Aug.2016-

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 2014Visiting 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) 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

Hefei, P.R.China

Diamond).

Feb-June 2014B.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 87Rb

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