

xiaoxue

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

personal

Born Jan.1992
Shandong Province
China

address

Zhong Guan Cun Bei
Road
Haidian Distinct
100084 Beijing
China

contact

xuex14@tsinghua
http://xiao.net

languages

bilingual
Chinese/English

education

- since 2014 **Ph.D Candidate in Physics, Tsinghua University** Beijing, P.R.China
Center for Quantum Information,
Institute for Interdisciplinary Information Sciences(IIIS)
Majoring in Quantum Information Science
- 02-06 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)** Heifei, P.R.China
School of Physics
Majored in Condensed Matter Physics

research experience

- 08 2014- **Ph.D Research in Tsinghua supervised by Prof.Luming Duan&Dr.Yipu Song** see more
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)*
- 02-06 2014 **B.Sc. Thesis in Tsinghua supervised by Prof.Luming Duan** see more
Laser Filter in 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 saturation absorption spectroscopy of ^{87}Rb atoms
Participate to set up a commercial Magneto-Optical Trap(MOT) of ^{87}Rb atoms*
- 06–08 2007 **Research Assistant in USTC mentored by Prof.Chaoyang Lu** see more
Multi-Photon Entanglement
*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**

Simulation **COMSOL**

Machine Drawing **AutoCAD, Solidworks**

Website Design **HTML5, CSS3, JavaScript**

Data Processing **Origin, R**

Document **L^AT_EX, Photoshop**

scholarships

2014-2019 **5-Year Scholarship for Ph.D Student of Tsinghua Univ.**

2012 **USTC Outstanding Student Scholarship(Grade 2)**

2011 **USTC Outstanding Student Scholarship(Grade 3)**

standardized test

GRE **Verbal: 149 Quantitative: 164 Analytical Writing: 3.5**

interests

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