

# JIAQI (Jackie) JIANG

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## EDUCATION

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- Since Sep. 2013 Bachelor of Science in PHYSICS AND MATHEMATICS, **Tsinghua University**, Beijing, China
- Globally recognized and ranked as the No.1 university in China
- Overall GPA: 3.87/4.00 ; Core GPA: 3.90/4.00 (top 3%)**
- Summer 2014 Distinguished Freshmen Visiting Program at **University of Oxford**, U.K.
- Fall 2015 Exchange Semester at **University of California, Los Angeles**, US

## RELEVANT COURSEWORK

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- MATH: Advanced Algebra, Advanced Calculus, Complex Analysis, Mathematical Physics Equations  
Stochastic Mathematical Methods
- PHYSICS: Quantum Mechanics, Electrodynamics, Thermodynamics, Solid-State Physics
- OTHER: C++ Programming, Data Structure, Artificial Intelligence, Digital Signal Processing

## ACADEMIC EXPERIENCE

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- Apr.-Jul. 2014 | **China Undergraduate Physics Tournament**  
*Research on Scratch Hologram (Independent)*
- Found out the most suitable material to produce distinct scratch hologram
  - Summarized the imaging law and made simulation with Sketchpad
  - Modeled the formation of scratch hologram and analyzed the influencing factors of imaging quality
- Sep.-Dec. 2014 | **Department of Physics, Tsinghua University**  
*High precision measurement of H-D spectroscopic isotope shift and He-Ne spectrum*
- Measured H-D spectroscopic isotope by making known He-Ne spectrum reference
  - Used MATLAB to extract spectrum, denoise and seek spectra's accurate positions (error :0.04nm)
  - Assembled the optical instruments to photographed the entire visible He-Ne spectrum and calculated wavelength of some unknown spectra with interpolation method (error: 0.1nm)
- Jan. 2015 | **Department of Physics, Tsinghua University**  
*Quantum Computers and Dissipation (Under guidance of Professor Wang)*
- Studied relevant papers, illustrated relations between decoherence and computational complexity, analyzed efficiency and realism of the quantum factorisation algorithm
- Apr.-Jun. 2015 | **Department of Computer Science, Tsinghua University**  
*Text classification project*
- Got familiar with supervised learning, logistic regression and deep learning
  - Programed in python independently, realized the function of classifying emails into two groups according to their contents (Accuracy 95%)

## LEADERSHIP

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- 2014-2015 *Office Administrator* | **Student Union of Physics Department, Tsinghua University**
- 2014-2015 *Minster of Competition Department* | **Association of Science & Technology, Tsinghua University**

## SCHOLARSHIPS AND AWARDS

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- Jul. 2013 Gold medal of International Physics Olympiad (IPHO), representing China
- Jul. 2015 First prize of China Undergraduate Physics Experiment Competition, representing Tsinghua
- Sep. 2013 Excellent freshman scholarship (1%)
- Sep. 2014 National scholarship (0.2%)
- Sep. 2014 Scholarship for outstanding curriculum (5%)
- Sep. 2015 Santander Bank Scholarship

## SKILLS

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- Computer: C++, Python,  $\LaTeX$ , Mathematica, MATLAB, Photoshop, Origin, Word, Excel
- Language: Native speaker of Mandarin; Fluency in English
- Interests: Photography, Chinese painting, Skiing