

# CHONG SHAO

## E-MAIL

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## PRESENT ADDRESS

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## EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill, NC  
Doctor of Philosophy, Computer Science, 2012-2017 (expected)  
Advisor: Stephen Pizer

Polytechnic Institute of New York University, Brooklyn, NY  
Bachelor of Science, Electrical Engineering and Computer Engineering, 2010-2012  
G.P.A. 3.86/4.0

Courant Institute of New York University, New York, NY  
Graduate Level Course on Computer Vision, 2011  
G.P.A. 3.70/4.0

Nanjing University of Posts and Telecommunications  
Electrical and Computer Engineering, 2007-2009  
G.P.A. 3.59/4.0

## EXPERIENCE

<b>Research Assistant</b>	Computer Science Department	Since August 2012
	University of North Carolina at Chapel Hill	
	Chapel Hill, NC	

Conduct research on statistics of objects in context using medial/skeletal models. Result is applied in radiology.

<b>Tutor</b>	Tutoring Center	Spring 2010 - Spring 2012
	Polytechnic Institute of NYU	
	Brooklyn, NY	

Helped students solve problems in computer science courses; made mock exams for review purpose. Worked on C++, Matlab and Python programming problems.

<b>Research Assistant</b>	Information Systems and Internet Security Lab, Summer 2011
	Polytechnic Institute of NYU
	Brooklyn, NY

Worked on problems in image forensics, especially on the problem of fast source camera model identification. Applied Locality-Sensitive Hashing (LSH) method to the problem, analyzed the algorithm, implemented the algorithm and analyzed the experiment result. Wrote formal reports. Gave presentations to colleagues.

<b>Internship</b>	Suzhou Software Testing Center	Summer 2008
	Suzhou, China	

Worked with experienced engineers on several enterprise software testing tasks.

## PROJECTS

**Handheld 3D Scanner**                      Computational Photography, NYU Courant                      Fall 2011

Implemented “structure from motion” in two ways: Bundler and factorization method. Wrote code to implement factorization method. Applied two matlab toolboxes in camera calibration.

**Parallel Sorting**                      Intro to Embedded System, NYU-Poly                      Fall 2011

Implemented parallel sorting on two Silicon Labs microcontrollers, which involved writing code for communication and sort algorithm.

**Arithmetic Logic Unit**                      Intro to VLSI, NYU-Poly                      Spring 2011

Designed the circuit and layout of an ALU. It contained function ADD, SUB, MUL, LSHIFT, RSHIFT, AND, OR and AND.

**Quantum Compilers**                      Physics of Quantum Computers, NYU-Poly                      Spring 2011

Did a survey on the proceedings of quantum compilers. Studied Dr. Svore’s Ph.D. Thesis and Prof. Aho’s research. Gave presentations to classmates and professor.

**Naïve Bayes OCR**                      SICP, UC-Berkeley                      Summer 2010

Implemented an optical character recognition system based on a naive Bayes classifier model in University of California, Berkeley summer session class.

**Other recent projects can be found on my GitHub page: <https://github.com/tingleshao>**

## APPLICATIVE SKILLS

Proficient programming in Matlab, Python, Ruby  
Familiar with C++, Scheme, Haskell, HTML/CSS, JavaScript, Java  
Experience in developing MVC web applications in Python and Java  
Familiar with Linux Administration and Programming  
Familiar with CMake  
Proficient document formatting using L<sup>A</sup>T<sub>E</sub>X  
Fluent in English and Chinese

## SELECTED COURSES

**at University of North Carolina at Chapel Hill:**

Medical Image Analysis, Object-Oriented Data Analysis, Scientific Computing

**at New York University:**

Computer Vision, Computational Photography, Optimization Methods

**from Resources on the Web:**

Machine Learning, Convex Optimization, Natural Language Processing

**EXTRACURRICULAR ACTIVITIES**

Contestant in ACM-ICPC Greater NY: 2011

Developer of one iPhone app on Apple app store in 2010

**CERTIFICATIONS**

Sun Certified Java Programmer (SCJP), obtained in 2008