

# CHONG SHAO

## E-MAIL

cshao@cs.unc.edu

## PRESENT ADDRESS

425 Hillsborough ST, APT 6C  
Chapel Hill, NC 27514  
(919) 619-0326

## EDUCATION

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

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

University of California, Berkeley, CA  
Summer Session, Computer Science, Summer 2010  
"Structure and Interpretation Computer Programs" and Discrete Math  
G.P.A. 3.50/4.0

New York Institute of Technology, New York, NY  
Electrical and Computer Engineering, 2007-2009  
G.P.A. 3.59/4.0

## EXPERIENCE

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

Conduct research on statistics of shapes. Focus on medical image applications.

<b>Computer Science Tutor</b>	Tutoring Center	Sometime in 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>Trainee</b>	Suzhou Software Testing Center	Summer 2008
	Suzhou, China	

Took short training courses on software testing process; 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.

Other projects can be found on my [GitHub page](#)

## COMPUTER SKILLS

Programming skills in Matlab, C++, Java, Objective-C, Python, Ruby

Knowledge in developing MVC web applications in Python and Java

Knowledge in using L<sup>A</sup>T<sub>E</sub>X

Knowledge in using Linux

## HONORS AND AWARDS

Dean’s List of Distinguished Students: Spring 2009-Fall 2011

## EXTRACURRICULAR ACTIVITIES

Contestant in ACM-ICPC Greater NY: 2011

Member of NYU-Polytechnic ACM-ICPC programming team: Since 2010

Chairman of a student Open Source Software Community in Nanjing, China: 2008-2009

Developer of one iPhone app on Apple app store

## CERTIFICATIONS

Sun Certified Java Programmer (SCJP)

Sun Certified Java Web Developer (SCWCD)

Cisco Certified Network Associate (CCNA)