

# Dong Zhou

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nosarthur.github.io

(917) 207-8391 (mobile)  
with work authorization in US

## SUMMARY

A scientist and programmer. Interested in personal growth and social good. Past experience includes image processing, mathematical modeling, computational mathematics/physics, stochastic process. Familiar with magnetic resonance imaging, quantum computing and biophysics.

## SKILLS

Python, Matlab, C/C++, Linux shell scripts, d3.js, SQL  
Machine learning, Image processing, computational physics/mathematics  
Mathematical modeling, Optimization with regularization, Stochastic process

## EXPERIENCE

- Senior scientist at Schrödinger, LLC 2016-2016
- Postdoc in radiology, Weill Medical College of Cornell University 2012-2016  
Solved ill-posed inverse problems in medical imaging using Matlab, C and C++. Developed probes for transcranial magnetic stimulation.
- Postdoc in physics, Yale University 2011-2012  
Simulated solid state quantum optics (circuit QED) systems using Python. Developed schemes for quantum control and quantum gate.
- Research assistant, University of Wisconsin-Madison 2007-2011  
Studied quantum systems in the presence of classical noises using Matlab and C++. Developed scheme for quantum gate and quantum control. Developed algorithm for graph isomorphism problem. Performed X-ray diffraction and synchrotron radiation experiments on nacre (mother of pearl) and other samples.

## EDUCATION

- Ph.D in physics, University of Wisconsin-Madison (GPA 4.0) 2006-2011
- Graduate study in physics, University of Georgia-Athens (GPA 4.0) 2004-2006
- B.S. in physics, Honored Mixed Class, Zhejiang University, China (GPA 3.8) 2000-2004

## HONORS AND AWARDS

- International Society for Magnetic Resonance in Medicine (ISMRM) Merit Award, Magna Cum Laude, 2014
- International Student Academic Achievement Award, UW-Madison, 2011
- Ray and Anne Herb Award for Wisconsin Distinguished Graduate Fellowship, 2008
- Emanuel R. Piore Award for Highest Scorer on the Qualifier Exam, UW-Madison, 2007
- University Housing's Favorite Instructor Award for Fall 2006, UW-Madison, 2006
- Van Vleck Fellowship for Graduate Students in Physics, UW-Madison, 2006

- Honored Graduate of Zhejiang University, China, 2004
- Honorary Enrollment, Zhejiang University, China, 2000
- Tan Jiazhen (C. C. Tan) Scholarship for Outstanding High School Student in Biology, 1999
- Kang Hui Scholarship for Highest Scorer in High School Entrance Exam, Hangzhou, China, 1996

#### PUBLICATIONS AND SERVICES

Author for 30 journal articles and reviewer for 11 journals.