Wenjun Zhao

Personal Data

Gender:	Female
Date of Birth:	28 March 1995
Address:	Courant Institute of Mathematical Sciences 251 Mercer Street New York, NY, 10012
Phone:	+1 (646) 509-4683
Email:	wz1042@nyu.edu wenjun@cims.nyu.edu
Homepage:	http://www.cims.nyu.edu/~wenjun

Education

Sept 2016– (Current)	PhD, Atmosphere Ocean Science and Mathematics **New York University** Courant Institute of Mathematical Sciences Center for Atmosphere Ocean Science
Aug 2012– –June 2016	BSc, Mathematics **University of Science and Technology of China** Department: School for the Gifted Young Major: Information & Computational Mathematics
July 2015– –Sept 2015	Visiting Student **University of Oxford**, Department of Computer Science

Honors

Since Sept 2016	MacCracken Fellowship of New York University
July 2015	Fellowship for Summer Program at the University of Oxford
Feb 2015	Meritorious Winner in the Mathematical Contest in Modeling

Research Interests

- Mathematical Models
  - Stochastic Processes in Application
  - Numerical Methods

Computer Skills

C, Java, MATLAB, Mathematica, LaTeX, Linux

Academic Experiences

July-Sept 2015 | Took part in a summer project at University of Oxford
Model Verification for Partially Observable Stochastic Hybrid System
Supervisor: Prof. Alessandro Abate

Wrote a code based on the point-based algorithm developed by Dr.Kendra Lesser in MATLAB and Java to generate a discrete model to do model verification of *Partially Observable Markov Decision Process (POMDP)* in both single-objective and multi-objective situations. Designed a GUI to guarantee the intelligence of the software which will be available online in the future.

Aug 2015 | Attended a conference at University of Oxford
New Direction In Numerical Computation

June 2015 | Conducted a class project of *Wavelet Analysis*
A Wavelet-based Image Retrieval System
Supervisor: Prof. Juyong Zhang

Made abstractions of 1000 given pictures by getting their wavelet coefficients and defining a feature vector based on these matrices with MATLAB. Analyzed the Precision-Recall (PR) curve of the results and tested the stability.

Feb-July 2015 | Worked as a teaching assistant of *Multivariable Calculus*

Feb 2015 | Participated in the Mathematical Contest in Modeling
Macro Scheduling in Face of Ebola

Set up models about spreading trends of disease, transportation methods and allocation of medicine and vaccinates in Africa with MATLAB, Mathematica and C within a team of three undergraduate students. Responsible for the allocation system and paper writing.

June 2013 | Took part in project contest of *Electromagnetics*
Numerical Method Solving the Resistance of Grid Problems

Gave numerical solutions to resistance problems about finite and infinite grids under various circumstances using circuit analysis method and programming with MATLAB and Mathematica. Studied the properties of the solution.

June 2013 | Conducted a class project of *Life Science: Brain and Cognition*
Synesthesia–the Bond between Smell and Memory

Designed experiments with control variable method to check if the bond between smell and memory exists. Analyzed the data to support the hypothesis.