

Wenjun Zhao | Curriculum Vitae

Courant Institute of Mathematical Sciences, 251 Mercer Street – New York, NY 10012

☎ (646) 509 4683 • ✉ wenjun@cims.nyu.edu • 🌐 cims.nyu.edu/~wenjun

Education

PhD candidate in Atmosphere Ocean Science and Mathematics <i>Courant Institute of Mathematical Sciences, New York University</i> Advisor: Professor Esteban G. Tabak	New York, US 2016–now
BS in Computational Mathematics <i>Special Class for Gifted Youth, University of Science and Technology of China (USTC)</i>	Hefei, China 2012–2016
Visiting student at Department of Computer Science, University of Oxford	2015

Research interests

Optimal transport and its applications; theoretical and computational geophysical fluid dynamics.

Research experience

Publication in preparation	
Conditional Density Estimation through Optimal Transport <i>With Professors Esteban Tabak and Giulio Trigila</i> From conventional barycenter optimal transport problem, we propose a methodology to explain the variability and provide simulated conditional density estimation with applications in forecast of US ground temperature. Presented at student seminar, NYU.	New York, US Submitted to SIMODS
Undergraduate research projects	
New Algorithms for Optimal Portfolio Deleveraging Problem <i>Undergraduate thesis at Chinese Academy of Sciences</i> Advisor: Professor Yuhong Duan	Beijing, China 2016
Model Verification for Partially Observable Stochastic Hybrid System <i>Summer project at Department of Computer Science, University of Oxford, funded by USTC</i> Mentor: Professor Alessandro Abate	Oxford, UK 2015
Macro Scheduling in Face of Ebola <i>Meritorious Winner in Mathematical Contest of Modeling</i>	2015
Numerical Methods in Solving the Resistance of Grid Problems <i>Presented at Department of Physics, USTC and won first prize in school-wide Contest of Electromagnetics</i>	2013
Participation	
NASA JPL-Caltech Summer School <i>Annual event on satellite observations and climate models</i>	Pasadena, US 2018

Programming skills

C, Java, MATLAB, Python, Mathematica, \LaTeX , Linux

Honors

MacCracken Fellowship <i>Courant Institute of Mathematical Sciences, New York University</i>	New York, US 2016–now
--	---------------------------------

Teaching

Grader for undergraduate and graduate ODEs/PDEs, New York University	2017–2018
Teaching assistant for undergraduate multivariable calculus, USTC	2015