Yang Liu

Contact Information

School of Mathematics
University of Minnesota
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Visa Status

F-1. Citizen of P.R. China

Research Interests

Numerical and applied analysis, Scientific computing.
Mathematical modeling in finance and biophysical systems.
Probability, Stochastic process and Statistics.

Education

University of Minnesota, Minneapolis, Minnesota, USA

Ph.D in Mathematics **Sep 2005 – present**

- Master in Mathematics: Oct.2009
- Date of Passing Preliminary Oral Exam: Sep 2009
- Years in the program: 4
- Advisor: Professor Yoichiro Mori
- Thesis Title: Convergence results for some Stokes Immersed Boundary method

University of Science and Technology of China, Hefei, Anhui, China

B.S. in Mathematics and Applied Mathematics **Sep 2001 – Jul 2005**

Honours and Awards

Outstanding Freshman Scholarship, Univ of Sci.& Tech. of China, 2001

Outstanding Student Scholarship for 4 consecutive years, Univ of Sci.& Tech. of China, 2001-2005

Research Publications

Y.Mori and Y.Liu, Convergence of Immersed Boundary Discretizations of Elliptic problems with singular source terms: Discrete Delta Functions and Smoothing Order, In Prepration.

Y.Mori and Y.Liu, Convergence results for the Pressure of A Stokes Immersed Boundary Method, In preparation.

Teaching & Research Experience

Teaching Assistant, School of Math, UMN, 2005-2009.
Research Assistant for professor Yoichiro Mori, UMN, 2009.

Related Courses

Completed Related Courses: Real analysis 1 & 2, Complex Analysis 1 & 2, Theory of Statistics 1 & 2, Partial Differential Equations 1 & 2, Manifold and Topology 1 & 2, Probability Theory 1 & 2, Stochastic Process, Time Series Analysis, Functional Analysis, Topics in Probability, Engineering Optimization 1, Mathematical Finance 2 (audit), Microeconomics (audit).

Current Courses: Numerical Analysis of P.D.E., Capital Markets Theory (Audit)

Programming

C, Matlab, Mathematica, R, LaTeX. Some experience with SAS, S-Plus.