

CURRICULUM VITAE

Ke Shi

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PERSONAL INFORMATIONS

Gender: Male
Date of birth: November 1st, 1983
Place of birth: Wuhan, P.R.China
Present Citizenship: Chinese
Visa Status: F1

RESEARCH INTERESTS

Hybridizable Discontinuous Galerkin Methods.
Numerical Analysis in Continuum Mechanics.
Numerical Solutions in Stokes Equations.

EDUCATION

2006–present	Ph.D in Applied Mathematics at University of Minnesota, expected 2011; Adviser: Bernardo Cockburn.
2008–present	Master in Aerospace and Mechanical Engineering at University of Minnesota, expected 2011.
2006–2009	Master in Applied Mathematics at University of Minnesota; Adviser: Bernardo Cockburn; Thesis: HDG Locking-Free Methods for Timoshenko Beams.
2002–2006	BS in Mathematics at Peking University, Beijing, China.

WORKING EXPERIENCE

2006–present	Teaching Assistant in Math Department, University of Minnesota.
2004–2005	Vice Director of Practice Division of Student Union, School of Mathematical Sciences, Peking University, Beijing, China.

2003-2004 Organization Director of Class 2002, School of Mathematical Sciences, Peking University, Beijing, China.

REWARDS

2002 Freshman Fellowship with honor, Peking University, Beijing, China.

2001 Chinese Mathematics Olympiad, Silver Medal, Hongkong, China.

2001 National Mathematics Olympiad Competition, First Place, China.

2001 Bulgarian International Mathematics Olympiad Competition, Silver Medal, Sofia, Bulgaria.

COMPUTER AND LANGUAGE SKILLS

Programming Matlab, Fortran, Python.

Office Softwares MS Excel, MS Word, MS Powerpoint, Latex, Beamer.

Languages Chinese, English.

ADDITIONAL INFORMATION

I am in the forth year of my Ph.D program advised by Bernardo Cockburn. I passed the written preliminary exam in the May, 2007 and passed the preliminary oral exam on May, 2009. My potential Ph.D thesis topic is **Hybridizable Discontinuous Galerkin Methods for Fourth-order Problems in Continuum Mechanics**. I applied HDG methods on Timoshenko Beams model in the oral expository paper and we are trying to publish this paper by this year. Currently I am working on HDG methods for biharmonic equations as well as Reissner-Mindlin Plates model. I list some completed and current courses related with my work below:

mathematics Real Analysis, Complex Analysis, Functional Analysis, Math Modeling and Applied Math, Numerical Analysis and Scientific Computation, Numerical Analysis on Partial Differential Equations, Theory of Partial Differential Equations, General Algebra, Manifolds and Topology.

Mechanics Continuum Mechanics, Elasticity, Fluid Mechanics I, Non-linear Finite Element Methods.

Current GPA 3.81.