

CURRICULUM VITAE

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Work Address

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Education

Temple University, Philadelphia, Sept 2002 - May 2008

- Ph.D. in Mathematics 2008
- M.A. in Mathematics 2005

Dalian University of Technology, Dalian, China, 1996 - 2000, 2000 - 2002

- Postgraduate Study in Optimization and Control Systems
- B.S. in Applied Mathematics July 2000

Teaching Experience

Temple University, Department of Mathematics

- Courses that were taught including
 - Calculus III, 2006
 - Intermediate Algebra, 2004
 - Elementary Algebra, 2003
 - Prealgebra, 2003
- Teaching assistant for courses including
 - Intermediate Algebra, Basic Concepts of Mathematics
 - Elements of Statistics and Calculus III
- Tutor at Math and Science Resource Center, Temple University, 2002, 2003

Temple University, Russell Conwell Educational Services Center

· Participated as a Math instructor in the Summer Bridge Program designed to help first-generation and low income students make a smooth and successful transition from high school to college. Students in this program are Pennsylvania residents whose scores on admission tests qualify them for Temple University's Freshman Referral Programs.

- Lectured and held problem solving sessions, emphasis on intermediate algebra and pre-calculus

Dalian University of Technology, Dalian, China

- Assisting Discrete Mathematics 2001

Research Experience

Doctoral Research: Department of Mathematics, Temple University, 2002 - 2008, (research advisor: Dr. Daniel B. Szyld).

· Research on optimization of additive Schwarz preconditioned GMRES without coarse grid correction, inexact GMRES for singular linear systems and varying iteration accuracy using inexact CG

governed by partial differential equations.

Research Interest

- Numerical Analysis
- Scientific Computing
- Numerical Linear Algebra
- Domain Decomposition

Conferences Attended

- 2008 Joint Mathematics Meetings, San Diego, Jan 6-9 2008
- Varying Iteration Accuracy Using Inexact CG in Control Problems Governed by PDE's, SIAM Conference on Mathematics for Industry, Philadelphia, Oct 9-11 2007
- On Convergence Bounds of Additive Schwarz Preconditioned GMRES, Joint GAMM-SIAM Conference on Applied Linear Algebra, University of Düsseldorf, Germany, (July 24-27 2006).
- On Convergence Bounds of Additive Schwarz Preconditioned GMRES, Ninth Copper Mountain Conference on Iterative Methods, Denver, (Apr 2-7 2006)
- Teaching Conference and new teaching assistant orientation, Temple University, Philadelphia, Aug 26-27 2002.

Seminar Presentations

- Solving Inverse Problems by Inexact Conjugate Gradient Method, Graduate Students' Seminar, Temple University Oct 24th, 2007.
- On Convergence Bounds of Additive Schwarz Preconditioned GMRES, Applied Mathematics Seminar, Temple University Oct 18th, 2006.

Publications and Preprints

- Varying iteration accuracy using inexact CG in control problems governed by PDE's (with Eldad Harber, Maria Karampataki and Daniel B. Szyld), 16 pages, preprint.
- Inexact GMRES on linear singular systems (with Daniel B. Szyld), 17 pages, submitted to BIT Numerical Mathematics.
- A note on the mesh independence of convergence bounds for additive Schwarz preconditioned GMRES (with Daniel B. Szyld), 10 pages, to appear in Numerical Linear Algebra with Applications.
- The comparison of several evolutionary algorithms and analysis of their computational efficiency (with Huanwen Tang), 7 pages, published at Journal of GuiZhou University, 2001, 18, z1 1-7.

Awards

- Received teaching assistantship at Temple University 2007
- Received research assistantship at Temple University 2005-2007
- Temple graduate student conference travel award 2006
- Received teaching assistantship at Temple University 2002-2005
- Graduate with honor at Dalian University of Technology July 2000
- Received first prize scholarship, July 1997, July 1998, July 1999, July 2000.
- Received second prize, CUMMC (China Undergraduate Mathematics Modeling Contests), 1999

Computer Skills:

- Microsoft: Word, Excel, Outlook, PowerPoint and Access; SAS, S-plus, Latex, C/C++ and Matlab.