

Qinghua Luo

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Education

Ph.D. in Mathematics, University of Oklahoma, Expected in Summer 2012

Thesis Title: *Optimization Problem for Klein-Gordon Equation*
Advisor: Dr. Semion Gutman

M.Ed. in Mathematics Education, University of Oklahoma, Expected in May 2012

Advisor: Dr. Stacy Reeder

M.A. in Mathematics, University of Oklahoma, July 2008

B.S. in Mathematics, Zhejiang University, China, July 2000

Professional Certificate

Endorsement for Preparation for Teaching Undergraduate Mathematics, Department of Mathematics, University of Oklahoma, April 2011

Research Interests

Nonlinear Functional Analysis, Differential Equations, Optimization and Inverse Problems

Academic Experience

Graduate Teaching Assistant, University of Oklahoma, 2005-Present

Duties: Giving lectures; designing syllabus; designing and grading homework, quizzes, and exams; holding office hours; tutoring students; proctoring exams.

Courses Taught:

Instructor for Calculus II, Summer 2010, Summer 2011

Instructor for Precalculus for Business, Life and Social Science, Spring 2010

Discussion Section Leader for Calculus I, Spring 2008, Fall 2008, Fall 2009, Fall 2010

Discussion Section Leader for Calculus II, Fall 2007

Courses Graded:

Calculus III, Calculus IV, Abstract Linear Algebra, Discrete Mathematical Structures, Introduction to Functions of a Complex Variable, Introduction to Partial Differential Equations, Mathematical Theory of Probability, Applied Modern Algebra, Physical Mathematics.

Non-Academic Professional Experience

Lotus Notes Domino Software Engineer, Zhejiang Sinostride Technology Co. Ltd, Hangzhou, Zhejiang, China, 2002-2004

Duties: Software development, installation, integration, testing and maintenance.

Web Developer, Zhejiang Top Software Park, Shaoxing, Zhejiang, China, 2000-2002

Duties: Web design for Database management

Publications and Preprints

Optimization Problem for Klein-Gordon Equation (submitted).

Professional Conferences

Poster Presenter on “Optimization Problem for Klein-Gordon Equation”

2011 The AWM Anniversary Conference “40 Years and Counting: AWM’s Celebration of Women in Mathematics”, Brown University, Providence, RI, September 17-18, 2011

Joint Mathematics Meetings, New Orleans, LA, January 6-9, 2011

Professional Workshops

Poster Presenter on “Optimization Problem for Klein-Gordon Equation”

The Third Oklahoma PDE Workshop, Oklahoma State University, November 12-13, 2011

2011 Brock Symposium on Excellence in Education, University of Oklahoma, April 8, 2011

The Second Oklahoma PDE Workshop, University of Oklahoma, October 9-10, 2010

Algebraic, Geometric, and Combinatorial Methods of Optimization Summer Graduate Workshop, MSRI, Berkeley, CA, August 2-13, 2010

The First Oklahoma PDE Workshop, Oklahoma State University, November 21-22, 2009

Technical and Parallel Computing with MATLAB, University of Oklahoma, Feb 26-27, 2009

Climate Change Summer Graduate Workshop, MSRI, Berkeley, CA, July 14-August 1, 2008

Seminar Talks

Books review: *The Flicker Mind*(by Todd Oppenheimer) and *Rethinking Education in the Age of Technology*(by Allan Collins and Richard Halverson, RUME Seminar, University of Oklahoma, April 25, 2011

Properties for the nonlinear term of the damped Klein-Gordon Equation, Applied Math Seminar, University of Oklahoma, April 19, 2011

An approach to errors as opportunities for learning and inquiry, RUME Seminar, University of Oklahoma, April 11, 2011

Application of Wavelet Analysis, Applied Math Seminar, University of Oklahoma, September 24, 2008

Professional Memberships

American Mathematical Society (AMS) August 2005-Present

Mathematical Association of America (MAA) August 2005-Present

Society for Industrial and Applied Mathematics (SIAM) August 2008-Present

Honors and Awards

Sooner Heritage Scholarship 2010, 2011, University of Oklahoma

Robert E. and Mary B. Sturgis Scholarship 2008, University of Oklahoma

Graduate Teaching Assistantship 2005-Present, Department of Mathematics, University of Oklahoma

Service

Volunteer for Sooner Saturday, November 19, 2011

Volunteer for Women in Science Conference, Oklahoma City, OK, October 4, 2011

NISO Leader (New International Students Orientation Leader)

Volunteer for the Big Event(OU's official day of community service), Spring 2011

Volunteer for OU MathFest, 2007, 2009

Computer Skills

Matlab, Fortran, VBScript, JavaScript, SPSS, Microsoft SQL Server, ASP (Active Server Pages), Lotus Domino R6, LaTeX.

Language Skills

Fluent in English

Mandarin (Native Speaker)