

Xiaosheng Li

Department of Mathematics, Florida International University, Miami, FL 33199

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EDUCATION

Ph.D. in Mathematics, University of California at Los Angeles, USA June 2005

Thesis: *Inverse Scattering Problems for System of Differential Operators*

Advisors: Prof. Gregory Eskin and Prof. James Ralston

M.S. in Mathematics, Peking University, P. R. China July 2000

Thesis: *A Priori Estimate, Existence and Asymptotics of Positive Solutions of Semi-Linear Elliptic System*

Advisor: Prof. Kung-Ching Chang

B.S. in Mathematics, Peking University, P. R. China July 1997

PROFESSIONAL EXPERIENCE

Assistant Professor, Florida International University, USA 2008 - Present

Acting Assistant Professor, University of Washington, USA 2005 - 2008

Mentors: Prof. Gunther Uhlmann and Prof. Hart Smith

Research Fellow, Institute for Pure and Applied Mathematics, USA Fall 2003

RESEARCH INTERESTS

- Partial Differential Equations, Inverse Problems, Microlocal Analysis
- Financial Mathematics, Stochastic Partial Differential Equations
- Non-Linear Functional Analysis, Variational Methods

AWARDS AND HONORS

PIMS Postdoctoral Fellow 2006 - 2007

Pacific Institute for the Mathematical Sciences, Canada

Dissertation Year Fellowship, UCLA, USA 2004 - 2005

IPAM/NSF Research Stipend Award Fall 2003

Institute for Pure and Applied Mathematics, USA

Regent's Registration Fee Grant, UCLA, USA 2000 - 2005

California Nonresident Tuition Fellowship, UCLA, USA 2000 - 2005

PUBLICATIONS

1. Xiaosheng Li, "Inverse scattering problem for the Schrödinger operator with external Yang-Mills potentials in two dimensions at fixed energy"

Communications in Partial Differential Equations, 2005, Vol 30, 451-482.

2. Xiaosheng Li, "On the inverse problem for the Dirac operator" *Inverse Problems*, 2007, Vol 23, 919-932.
3. Horst Heck, Xiaosheng Li, Jenn-Nan Wang, "Identification of viscosity in an incompressible fluid" *Indiana University Mathematics Journal*, 2007, Vol 56, 2489-2510.
4. Xiaosheng Li, Jenn-Nan Wang, "Determination of viscosity in the stationary Navier-Stokes equations" *Journal of Differential Equations*, 2007, Vol 242, 24-39.

PRESENTATIONS

- Colloquium, Florida International University, Miami, USA (March 2008)
- Conference on Applied Inverse Problems 2007: Theoretical and Computational Aspects, University of British Columbia, Vancouver, Canada (June 2007)
- Symposium on Inverse Problems Honoring Alberto Calderón, IMPA, Rio de Janeiro, Brazil (January 2007)
- Inverse Problems Seminar, University of Washington (November 2006)
- Inverse Problems in Applied Sciences --- towards breakthrough ---, Hokkaido University, Sapporo, Japan (July 2006)
- IPAM Inverse Problems Reunion Conference II, Lake Arrowhead, California (June 2006)
- IPAM Inverse Problems Reunion Conference I, Lake Arrowhead, California (June 2005)
- Analysis Seminar, UCLA (May 2004)
- IPAM Inverse Problems Culminating Workshop at Lake Arrowhead, Lake Arrowhead, California (December 2003)

REFEREE JOB

Proceedings of the American Mathematical Society

Proceedings of Applied Inverse Problems 2007

Electronic Journal of Differential Equations

TEACHING EXPERIENCE

Instructor 2008 - Present

Department of Mathematics, Florida International University

Instructor 2005 - 2008

Department of Mathematics, University of Washington

Teaching Associate/Assistant 2002 - 2004
Department of Mathematics / Program in Computing, UCLA

Teaching Assistant 1997 - 2000
School of Mathematical Science, Peking University, P. R. China

SUMMER SCHOOLS

- Summer School on Inverse Problems in Radiative Transfer, University of Washington. (June 2007)
- Seismic Imaging Summer School, University of Calgary, Calgary, Canada. (August 2006)
- PIMS-MITACS-VIGRE Summer Graduate School on Inverse Problems, University of Washington. (August 2005)

CERTIFICATE

Inverse Problems: Computational Methods and Emerging Applications (Fall 2003)
International Semester Program, Institute for Pure and Applied Mathematics, USA