

## Gang Zhou

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### Citizenship

Chinese citizen, Canadian landed immigrant

### Education

Ph.D. in Mathematics, expected June 2007  
University of Toronto, Toronto, ON, Canada

Exchange Student in Mathematics, 2003-2005  
University of Notre Dame, Notre Dame, IN, U.S.A.

M.S in Mathematics, 2002  
University of Windsor, Windsor, ON, Canada

B.S. in Applied Mathematics, July 1999  
Northeastern University, Shenyang, Liaoning, China

### Employment

Postdoctoral fellow, Swiss Federal Institute of Technology at Zuerich, 2007-2010

### Research

University of Toronto, Toronto, ON, Canada  
University of Notre Dame, Notre Dame, IN, U.S.A.  
Research Assistant 2002-2005  
Professor I.M.Sigal. Asymptotic stability of solitons of nonlinear Schrödinger equations and the blow-up problem of nonlinear Heat equations.

University of Windsor Windsor, ON, Canada  
Research Assistant 2000-2002  
Professor Zhiguo Hu. Interpolation of Operator Space on Locally Compact Groups.

### Invited Visiting

Research Associate, Columbia University, New York, U.S.A. January-March, 2007.

### Teaching

University of Toronto, Toronto, ON, Canada  
University of Notre Dame, Notre Dame, IN, U.S.A.  
Teaching Assistant 2002-2005  
Algebra and Calculus.

University of Windsor, Windsor, ON, Canada  
Teaching Assistant 2000-2002  
Algebra and Calculus.

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### Working Papers

*the Quenching Problem of Nonlinear Heat Equations*, submitted.

With I.M.Sigal, *Neck Pinching Dynamics Under Mean Curvature Flow*, in preparation.

### Published Papers

With I.M.Sigal, *Relaxation To Trapped Solitons in Nonlinear Schrödinger Equations with Potential*, to appear in *Advances in Mathematics*.

With S. Dejak, I.M.Sigal and S. Wang, *Blow-up Problem of Nonlinear Heat Equations*, to appear in *Advances in Applied Mathematics*.

With I.M.Sigal, *Asymptotic Stability of Nonlinear Schrödinger Equations with Potential*, *Reviews in Mathematical Physics*.

With I.M.Sigal, *Soliton dynamics of nonlinear Schrödinger equations*, to appear in *Geometric and Functional Analysis*.

*Perturbation expansion and N-th order Fermi Golden rule*, to appear in *Journal of Mathematical Physics*.

With Zhang Qinging, Jing Haiying and Wanquan Liu, *Generalized Lyapunov equations for stable singular system*, *Proceedings of the 39th IEEE Conference on Decision and Control*, Australia, 2000.

### Presentations

*Asymptotic Stability of Nonlinear Schrödinger Equations with Potential*, AMS regional meeting, 2004, Northwestern University; Banff International Research Station, September 2006.

*Relaxation To Trapped Solitons in Nonlinear Schrödinger Equations with Potential*, Departmental seminar, University of Windsor, February 2005; Applied mathematics seminar, University of Toronto, March 2005; Calderon-Zygmund Analysis Seminar, University of Chicago, December 2005; Banff International Research Station, April 2006.

*Soliton Dynamics of nonlinear Schrödinger equations*, Harvard-MIT joint seminar, February 2006; PDE seminar, University of California at Berkeley, April 2007.

*Perturbation Expansion and N-th Order Fermi Golden Rule of the Nonlinear Schrödinger Equations*, nonlinear-Schrödinger-equation session of Winter Meeting of Canadian Mathematical Society, 2006.

*Formation of Singularities of Reaction Diffusion Equations*, Young mathematician conference of PDE and Dynamics Systems, III, Fields Institute, April 2006.

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### Awards

- China Mathematical Contest in Modeling, Second Prize in Liaoning Province, 1999,
- University of Toronto fellowship, 2002-2006,
- Ontario graduate fellowship, 2006-2007,
- NSERC postdoctoral fellowship.

### Skills

- Languages: Chinese (native), English,
- Computer Skills: Matlab, C,  $\text{\LaTeX}$ , HTML.