School of Mathematics and Information Sciences
Guangzhou University
510006, Guangzhou, China
☎ *(0086) 2039366859*
🖷 *(0086) 2039366859*
✉ *tingjianluo@gmail.com*
🖥 *http://tluo.perso.math.cnrs.fr/Tingjianluo.htm*

Tingjian Luo

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Personal information

Date of Birth:	October 19th, 1985
Place of Birth:	Hengnan, Hunan Province, China
Nationality:	Chinese
Current Position:	Assistant professor in the department of applied mathematics, Guangzhou University (Since May 2014 –)

Education

2010 – 2013 **Doctorat (Ph.D.) in Mathematics**, *Université de Franche-Comté, Besançon, France*, Advisor: Prof. Louis Jeanjean, Title: Existence, non-existence and multiplicity of normalized standing waves for some nonlinear elliptic equations.
Thesis jury: Farid Ammar Khodja (Univ. Franche-Comté), Nabile Boussaid (Univ. Franche-Comté), Thierry Cazenave (Univ. Paris 6) (Referee), Jean Dolbeault (Univ. Paris 9) (Referee), Philippe Gravejat (Ecole Polytechnique), Mark Groves (Universität des Saarlandes) (President of the jury), Louis Jeanjean (Univ. Franche-Comté).

2008 – 2010 **Master in Mathematics**, *Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, China*, Advisors: Profs. Huan-Song Zhou and Zhengping Wang, Title: Nodal type bound states for nonlinear Schrödinger equations with decaying radial potentials.

2004 – 2008 **Bachelor in Mathematics**, *Hunan Normal University, Changsha, China*, Advisor: Prof. Qiuyi Dai, Title: Solutions of the first boundary-value problems on three special domains via Green functions method.

Research interests

Existence of normalized solutions;

The orbital stability or instability theory of standing waves;

Existence and instability of solutions with prescribed norm for nonlinear elliptic equations.

Publications and Preprints

[1] T-J. Luo, Z-P. Wang, Nodal Type Bound States for Nonlinear Schrödinger Equations with Decaying Potentials, *J. Partial Differential Equation*, 25 (2012), 79–89.

[2] L. Jeanjean, T-J. Luo, Sharp nonexistence results of prescribed L2-norm solutions for some class of Schrödinger-Poisson and quasi-linear equations, *Z. Angew. Math. Phys.* 64 (2013), 937–954.

[3] J. Bellazzini, L. Jeanjean, T-J. Luo, Existence and instability of standing waves with prescribed norm for a class of Schrödinger-Poisson equations, *Proc. London Math. Soc.* (3) 107 (2013) 303–339.

[4] L. Jeanjean, T-J. Luo, Z.-Q. Wang, Multiple normalized solutions for quasi-linear Schrödinger equations, *arXiv identifier 1403-2176.*

[5] T-J. Luo, Multiplicity of normalized solutions for a class of nonlinear Schrödinger-Poisson-Slater equations, *J. Math.Anal.Appl.* 416 (2014) 195–204.

Ph.D. Thesis   Existence, non-existence and multiplicity of normalized standing waves for some nonlinear elliptic equations, 125 Pages, 2013.

Talks

03/30/2012   *Séminaire Doctorant*, Department of Mathematics, Université de Franche-Comté, Besançon, France.

05/10/2012   *Séminaire EDPs*, Department of Mathematics, Université de Franche-Comté, Besançon, France.

06/04/2012   *Spring School in Nonlinear Partial Differential Equations*, Department of Mathematics, Université Libre de Bruxelles, Brussels, Belgium.

06/15/2012   *XIIIe Journées des Ecoles Doctorales Carnot-Pasteur*, Department of Mathematics, Université de Franche-Comté, Besançon, France.

04/21/2013   *Seminary*, Department of Mathematics, University of Guangzhou, Guangzhou, China.

Conferences and Workshops

05/26 - 06/01/2009   Conference: *International Workshop on Variational and Computational Methods for Multiple Solutions to Nonlinear PDE*, Capital Normal University, Beijing, China.

07/08 - 07/09/2010   Conference: *The 7th East China Conference on Partial Differential Equations*, Huazhong Normal University, Wuhan, China.

06/27 - 06/28/2011   Workshop: *Recent Advances on Elliptic Issues*, Université de Franche-Comté, Besançon, France.

05/05 - 05/06/2011   Conference: *XIIe Journées des Ecoles Doctorales Carnot et Pasteur*, Université de Bourgogne, Dijon, France.

11/21 - 11/24/2011   Conference: *Stability problems in nonlinear dispersive PDEs*, Université de Cergy-Pontoise, Paris, France.

05/30 - 05/31/2013   Conference: *XIVe Journées des Ecoles Doctorales Carnot-Pasteur*, Université de Bougogne, Dijon, France.

12/19/2013   Workshop: *Nonlinear PDE day 2013*, Université de Franche-Comté, Besançon, France.

Teaching experience

10/09 - 11/09/2007   one month normal teaching as a practice teacher in a high school in China.

Professional Service

Scientific responsibilities

2012   Referee for *Electronic of J. Differential Equations*

Organization of Conferences

06/27 -   *Recent Advances on Elliptic Issues*, Université de Franche-Comté, Besançon,
06/28/2011 France, with Louis Jeanjean and Kazunaga Tanaka.

12/19/2013 *Nonlinear PDE day 2013*, Université de Franche-Comté, Besançon, France,
            with Louis Jeanjean.

Miscellaneous

Language skills

Chinese: native language

English: skilled in reading, speaking and writing

France: reading and common communication

Computer skills

Mathematical   Maple, Matlab
softwares:

Language   Latex, C language, HTML
programs:

Office tools: WPS, Microsoft Office series

Hobbies

Playing badminton and tennis, Reading.