Jiao HE

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Education

2016-Present, Claude Bernard University Lyon 1, Villeurbanne, France

Thesis title : Asymptotic behavior for the Boussinesq system and the fluid-solid system.

Advisors : Dragoş IFTIMIE (Lyon 1, ICJ), Lorenzo BRANDOLESE (Lyon 1, ICJ).

2015-2016, University of Picardie Jules Verne, Amiens, France

M2, AAM (Applied Analysis and Modelisation), UFR Sciences

Feb-June 2016, Thesis of master 2 supervised by Mr. Youcef MAMMERI.

Theme: The deterministic and stochastic behavior of fractional Benjamin-Bona-Mahony equation and their numerical methods.

2010-2015, Central China Normal University, Wuhan, China

B.S. and M1 in Mathematics.

Teaching Experience

Oct 2018 - Sept 2019, 64h TD in basic mathematical II, Claude Bernard University Lyon 1.
Tutorials on basic mathematical techniques for 1st year undergraduates in Maths-Info.

Spring 2018, 24h "Khôlles" in basic mathematical II, Claude Bernard University Lyon 1.
Oral assessements for 1st year undergraduates in mathematics.

Automne 2014, Central China Normal University, Wuhan (China).
Assistante in analysis Mathematics for 1st year undergraduates in mathematics.

Research Experience

Talks

19 October 2018, Institut Fourier, Grenoble Alpes University
PhD seminar

14-18 May 2018, Claude Bernard University Lyon 1
Colloque Inter'Actions en Mathématiques

23 April 2018, ENS de Lyon
PhD seminar

3 April 2018, Claude Bernard University Lyon 1

    Analysis and PDE Seminar

Poster

20-22 March 2017, Savoie Mont-Blanc University, Autrans, France

    Young researcher PDE days 2017

Conferences

8-9 November 2018, Institut Fourier, Grenoble

    Rhône-Aples PDE days

27-31 August 2018, Bordeaux University, Bordeaux

    14th Franco-Roumain colloque in applied mathematics

11-15 June 2018, Obernai, Alsace

    Partial differential equations days 2018

21-23 Mars 2018, Université de Lorraine, Nancy

    Young researcher PDE days 2018

5-9 June 2017, Roscoff, France

    Partial differential equations days 2017

9-10 March 2017, Polytechnic University of Hauts-de-France, Calais

    Conference : "Theory of the incompressible Navier-Stokes system and related topics"

10-21 March 2016, University of Picardie Jules Verne, Amiens

    Spring school in hyperbolic system and conservation laws

9-14 July 2013, FuDan university, Shanghai

    Mathematical Summer Camp.

Productions scientifiques

[1] Jiao He and Dragoş Iftimie. A small solid body with large density in a planar fluid is negligible (Journal of Dynamics and Differential Equations, 2018).

[2] Jiao He and Dragoş Iftimie. Small moving rigid body into a 3D incompressible viscous fluid (in preparation).

[3] Lorenzo Brandolese and Jiao He. Uniqueness theorems for the Boussinesq system (Submitted).

[4] Rafael Granero-Belinchón and Jiao He. On the dynamics of 3D electrified falling films (in preparation).

[5] Jiao He and Youcef Mammeri. Remark on the well-posedness of weakly dispersive equations (ESAIM: Proceeding and surveys, 2018)

Languages

Chinese: mother language

English: intermediate

French: intermediate