

# Jingrui Niu

## Curriculum Vitae

Laboratoire Jacques-Louis Lions  
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### Education

- 2021 – Now **Post-doc.**  
LJLL, Sorbonne Université. Supervisor : *Oana Ivanovici*
- 2017 – 2021 **PhD in Fundamental Mathematics.**  
LMO, Université Paris-Saclay. Supervisors : *Nicolas Burq & Pierre Lissy*  
-*Dissertation* : The Controllability of the Coupled Wave Systems
- 2016 – 2017 **M2 in Analysis, Modelization, Simulation**  
Université Paris-Saclay, Supervisor : *Nicolas Burq*  
– *Mémoire* : On the proof of the Strichartz estimates on the compact manifold
- 2014 – 2016 **Master student**  
Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing. Supervisor : *Ping Zhang*
- 2010 – 2014 **Bachelor of Science in Pure and Applied Mathematics**  
Nankai University, Tianjin.  
-Enrolled in Nankai Bo-Ling Mathematics Class-2010

### Research Interests

I am interested in various domains of partial differential equations, including control and stabilization on dispersive equations, microlocal and semi-classical defect measures and unique continuation properties.

### Current Research Topics

I mainly focus on the control problem of the coupled wave systems and the wellposedness of the wave equation with the certain boundary. Now I am a member of the project ERC ANADEL, under direction of Oana Ivanovici.

- J. Niu. Simultaneous Control of Wave Systems. *SIAM J. Control Optim.*, 59(3) :2381–2409, 2021

- P. Lissy and J. Niu. Controllability of a coupled wave system with a single control and different speeds. preprint, 2022

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## Academic Activities

1. Summer school "Microlocal Methods in Global Analysis", Göttingen, 27-30 August 2018.
2. Conference "Workshops on nonlinear fluids and PDEs", Nanjing, 06-09, August 2019.
3. Invited talk, "Microlocal methods on the controllability of wave equations", Fudan University, Shanghai, 20 August 2019.
4. Conference "Control and dynamics of PDE", Strasbourg, 28-31 October 2019.
5. Workshop "Nonlinear Waves and Hamiltonian PDEs", La Thuile, February 20-26, 2022.