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Research Interests

I am interested in mathematics from physics, in particular, symplectic geometry/topology and mirror symmetry.

Now, I am focusing on sheaves techniques in symplectic geometry. In the beginning, we are trying to use sheaves to obtain some results about symplectic geometry of cotangent bundles. Next, we will go beyond the cotangent bundle to general symplectic manifolds.

I am also interested in gauge theory.

Education

Université Grenoble Alpes

Ph.D. student in Pure mathematics

Project : Sheaves Techniques and Symplectic Geometry.

Advisor : Damien Gayet, Stéphane Guillermou, and Claude Viterbo

Grenoble, France

2019-Present

Université Grenoble Alpes

M2R Fundamental Mathematics

Advisor : Stéphane Guillermou

Grenoble, France

2018–2019

Academy of Mathematics and Systems Science, CAS

MS in Pure Mathematics

Advisor : Wei-dong RUAN (阮卫东)

Beijing, China

2015–2018

Hunan University

BS in Mathematics

Advisor : Jun LI (李军)

Changsha, Hunan, China

2011–2015

Papers

— **Capacities from the Chiu-Tamarkin Complex.**

Preprint : arXiv 2103.05143.

Talks

April 2021 : Capacities from the Chiu-Tamarkin complex.

Symplectic Zoominar, CRM-Montréal, Princeton/IAS, Tel Aviv, and Paris (Online)

Nov 2020 : What is "larger" in symplectic geometry ?

Séminaire compréhensible, l'Institut Fourier, Université Grenoble Alpes

July 2020 : Embedding problem from microlocal sheaf theory.

Shanghai Maths Seminar, Tongji University

April 2020 : Homotopy equivalence of nearby Lagrangian and sheaf quantization.

Student Seminar on Symplectic Geometry, Princeton University

May 2017 : A_∞ -relations and Fukaya Categories.

Topics on Non-commutative Geometry, YMSC, Tsinghua University

Awards

2018 : IDEX M2 Scholarship of Université Grenoble Alpes.

2015 : Excellent New Student Scholarship, AMSS, CAS.

2014 : Shiing-Shen Chern (Geometry and Topology) Silver Award, S.T.Yau College Student Mathematics Contests.

Activities Organized

May 2020 : Bingyu's Friends - Young Mathematicians Colloquium, online.

Spring 2017 : Student Seminar on K3 Surfaces, AMSS, CAS.

Winter 2016 : Student Seminar on Homological algebra, Sheaves and Stacks, AMSS, CAS.

Spring 2016 : Student Seminar on Gauge Theory, AMSS, CAS.

Teaching

Spring 2018 : TA on Linear Algebra-II.

University of Chinese Academy of Sciences. **Instructor** : Prof. Ziming LI (李子明).

Autumn 2017 : TA on Calculus-III A.

University of Chinese Academy of Sciences. **Instructor** : Prof. Wei-dong RUAN (阮卫东).

Skill

Cooking : Intermediate

I would like to be a chef if I don't want to do math anymore.

Chinese : Mother tongue

English : Intermediate

French : Beginner

Maybe nothing