

Haocheng YANG - CV

Date of birth July 1998
Nationality Chinese
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Website <https://hcyang-math.github.io/>

Education

10/2022- **ENS Paris-Saclay**, Gif-sur-Yvette, France
Diploma : PhD (defense scheduled in June 2025)
Thesis : Existence, instability and energy partition for linear or nonlinear evolution equations issued from fluid mechanics
Directions : Thomas ALAZARD, co-direction with Jean-Marc DELORT

09/2020-09/2022 **Université Paris-Saclay**, Orsay, France
Diploma : Master Hadamard
Program : M1 + M2 Parcours Jacques Hadamard

09/2016-07/2020 **University of Chinese Academy of Science**, Beijing, China
Diploma : Bachelor of Mathematics and Applied Mathematics

Preprints and Publications

- [4] T. Alazard, C. Shao, H. Yang. *Global Well-posedness of a 2D Fluid-structure Interaction Problem with Free Surface*. arXiv:2504.00213
- [3] H. Yang. *Cauchy Problem for Cylinder-like Capillary Jets*. arXiv:2410.12506
- [2] H. Yang. *Virial Theorem and Its Applications in Instability of Two-Phase Water-Wave*. arXiv:2405.06517
- [1] H. Yang. *Microlocal Partition of Energy for Fractional-Type Dispersive Equations*. arXiv:2309.15282 (accepted by Analysis & PDE)

Talks and Posters

01/2025 **Analysis and PDE seminar - CY Cergy Paris Université** - Cergy, France

11/2024 **Mathematics of fluids in motion: Recent results and trends** - Marseille, France

06/2024 **Journées Écoulements & Fluides - Saclay** - Gif-sur-Yvette, France

01/2024 **Long Time Behavior and Singularity Formation in PDEs: Part VI** - Abu Dhabi, United Arab Emirates

12/2023 **Séminaire des doctorants d'analyse d'Orsay** - Orsay, France

Internships

04/2022-06/2022 **Internship M2** - ENS Paris-Saclay, Gif-sur-Yvette, France
Subject : Microlocal analysis of free-surface Euler equation
Tutor : Thomas ALAZARD

12/2019-06/2020 **Bachelor Thesis** - University of Chinese Academy of Science, Beijing, China
Subject : Long Time Behavior of the Solutions to Axisymmetric Navier-Stokes Equations
Tutor : ZHANG Ping

Teaching Experiences

01/2025-04/2025	L1S2PCST Système linéaire Université Paris-Saclay, Orsay, France
01/2023-05/2023	L1 Math 3 - Analyse 1 Université Paris-Saclay, Orsay, France
09/2023-12/2023	L1 Maths 2 : Algèbre et Géométrie Université Paris-Saclay, Orsay, France
01/2023-05/2023	L1 Math 3 - Analyse 1 Université Paris-Saclay, Orsay, France
10/2022-12/2022	L1 Soutien Math Université Paris-Saclay, Orsay, France

Scholarship and Awards

10/2022-09/2025	Allocations Doctorales LMH
09/2020-07/2022	Bourses Master Sophie Germain
09/2016-07/2019	Student Scholarship of UCAS

Skills

Language	Chinese (native), English (advanced), French (intermediary)
Computer	C, Python, \LaTeX