

# Haocheng YANG - CV

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**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

**05/2025** **AG Nichtlineare Partielle Differentialgleichungen (KIT)** - Karlsruher, Germany

**04/2025** **Junior Analysis Seminar (ICL)** - London, United Kingdom

**01/2025** **Analysis and PDE seminar (CY)** - 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, Chine  
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,  $\text{\LaTeX}$