

ZHE CHEN

Website: <https://zhechenmath-wq.github.io/zhechen-website/> | Telephone : +33 7 53 53 31 03 | E-Mail : zhe.chen@u-paris.fr |

EMPLOYMENT

- **Teaching and researching assistant (A.T.E.R.)** MAP5 (Université Paris Cité) September 2025- Current

EDUCATION

Ph.D., Applied Mathematics, October 2022- December 2025

Laboratoire Jacques-Louis Lions (Sorbonne Université),

Supervised by Frédérique Charles & François Golse

Master 2, Mathematics, Paris Dauphine University-PSL September 2021-September 2022

BS, Mathematics, Wuhan University September 2017-June 2021

TEACHING EXPERIENCE

- Teaching assistant of **Complex Analysis MAA313**, École Polytechnique, Ingénieur 1A / Bachelor 3 2023-2024
- Teaching assistant of **Complex Analysis FMA3Fo13EP**, École Polytechnique, Ingénieur 1A / Bachelor 3 2024-2025
- Teaching assistant of **Ml01E035 Maths et Calcul 1**, Université Paris Cité, Bachelor 1 2025-2026
- Teaching assistant of **Ml02E015 Maths et Calcul 2**, Université Paris Cité, Bachelor 1 2025-2026
- Supervision of an **undergraduate project**, Université Paris Cité, Bachelor 1 2025-2026

PUBLICATIONS AND PREPRINTS

- F. Charles, Z. Chen, and F. Golse, "Local Conservation Laws and Entropy Inequality for Kinetic Models with Delocalized Collision Integral" *Mathematical Models and Methods in Applied Sciences* (2026)
- Z. Chen, "A Formal Derivation of the Thick Spray Model from the Enskog-Boltzmann System" (Submitted)
- Z. Chen, "Conservative Formulations of the Standard Enskog and Povzner Equations" (Submitted)

INTERNSHIP

- **Title:** The Grad limit for a system of soft sphere June 2022-September 2022
Supervisor: François Golse, Centre de mathématiques Laurent Schwartz, École Polytechnique
- **Title:** On a Two-Species Micro-Macro Model for Wormlike Micellar Solutions: Dynamic Stability Analysis April 2021 - June 2021
Supervisor: Ning Jiang, Wuhan University

CONFERENCES AND DOCTORAL SCHOOL ATTENDED

- HSM, Bonn** Special Topic School: Particles in flow. 23 June -27 June 2025
- CIRM, Marseille** : Kinetic theory and fluid mechanics: couplings, scalings and asymptotics. 24-28 March 2025
- Aussois, France** Modeling, theory and numerics for PDEs (kinetic and hyperbolic systems) 8-11 October 2024
- Chania, Greece** Summer school and research conference : Festum π 8-20 June 2024
- ETH Zürich** Kinetic and hydrodynamic PDEs : Conference in honor of François Golse's 60th birthday 16 - 19 January 2024
- ENS, Paris** Salve winter school 6-8 December 2023
- Max-Planck institute, Leipzig** Shocking Developments: New Directions in Compressible and Incompressible Flows: A Conference in Honor of Alexis Vasseur's 50th Birthday 26 - 30 June 2023

IHES, Bures-sur-Yvette Advances in Nonlinear Analysis and Nonlinear Waves, conference in honor of Frank Merle 22 - 26 May 2023

CIRM, Marseille Kinetic theory research school 14 - 18 November 2022

IST Austria 2nd IST Austria Summer School in Analysis and PDEs 25 - 29 July 2022

ETH Zürich When Kinetic Theory meets Fluid Mechanics 18 - 22 July 2022

TALKS AND SEMINAR

Working seminar for Ph.D. students, LMO, Université Paris-Saclay 28, April, 2026

PhD Defense, LJLL, Sorbonne Université 19, December, 2025

Working seminar Analyse, Modelisation & Simulation, MAP5, Université Paris Cité 19, September, 2025

Working seminar for Ph.D. students, LJLL, Sorbonne Université 19, March, 2025

Second year PhD student presentation, CMLS, École Polytechnique 11, June, 2024

First-year PhD student research talks, LJLL, Sorbonne Université 23, November, 2023

Organizer of Working seminar for Ph.D. students in the LJLL (Groupe de Travail des Thésard·es du LJLL) May, 2023-July, 2024

Host of Advanced Analysis Reading Group, Wuhan University September, 2018-April, 2019

Host of Mathematical Analysis and Linear Algebra Reading Group, Wuhan University September, 2017-April, 2018

SKILLS

Software MATLAB, \LaTeX .

Languages Mandarin(Native), English(Academic), French(Intermediate)