

Jingyuan Zhu

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EDUCATION

Master Mathématiques et Applications Faculté des Sciences, Orsay, France Université Paris-Saclay, Mark: 17.62/20.00, with highest honors	September 2023 - September 2024
Bachelor of Science Department of Mathematical Sciences, Beijing, China Tsinghua University, CGPA: 3.76/4.00	August 2019 - June 2023
HSC Yueqing Zhilin High School, Wenzhou, China	September 2016 - June 2019
SSC Yuecheng Public Boarding School, Wenzhou, China	September 2013 - June 2016

RESEARCH INTERESTS

higher category, higher algebra and their parametrised or equivariant variants;
equivariant and nonequivariant stable homotopy theory;
algebraic K -theory and Hermitian K -Theory;
also homotopical algebra, especially model category.

INTERNSHIP/TRAININGS

Equivariant ∞-Category and Real Topological Hochschild Homology <i>Master thesis</i> <ul style="list-style-type: none">· This thesis generalised THR to the case of E_σ algebra in C_2-∞-category, using equivariant factorisation homology, with also a tentative trial to give an equivariant analogue of the fibre sequence relating THH and André–Quillen cohomology.· Supervised by Gabriel Angelini-Knoll and cosupervised by Geoffroy Horel at Paris 13.	March 2024 - June 2024
Reading Seminar on Infinity Category <ul style="list-style-type: none">· A talk at the reading seminar on ∞-category organised by Jordan Levin and Ran Azouri at Paris 13.	December 2023 - March 2024
Nielsen Realisation Problem <i>Undergraduate Dissertation</i> <ul style="list-style-type: none">· Investigated Teichmüller theory and Teichmüller geometry, mapping class group, and MMM classes; derived several representational results regarding Nielsen realisation problem.· Supervised by Weiyan Chen at Tsinghua University.	October 2022 - June 2023
Morse Theory and its Applications <i>Major Project as a part of a curriculum named Research Training Program</i> <ul style="list-style-type: none">· A research training project in collaboration with Zhongxian Cao· Explored the major content of Morse theory, deriving a proof of Bott periodicity theorem for U and O.· Mentored by Pin Yu at Tsinghua University.	April 2022 - January 2023
A Report on Removable Singularities in Yang–Mills Fields <i>Minor Project as a part of curriculum</i>	December 2022 - January 2023

· A Report of an article by Karen K. Uhlenbeck.

A Report on the Existence of Harmonic Diffeomorphism from \mathbb{C} to \mathbb{D} November 2021 - December 2021
Minor Project as a part of curriculum

- A Report of an article by P. Collin and H. Rosenberg, in collaboration with Jianqiao Shang et al.
- Disproved Schoen's conjecture that there does not exist a harmonic diffeomorphism from \mathbb{C} to \mathbb{D} .

HONORS/AWARDS

Sophie Germain Scholarship	2023–2024
Tsinghua XueTang Mathematics Program Scholarship	2021–2023
S.-T. Yau College Student Mathematics Contest 2022, Geometry and Topology, reward of excellence	2022
S.-T. Yau College Student Mathematics Contest 2022, Algebra and Number Theory, reward of excellence	2022
S.-T. Yau College Student Mathematics Contest 2021, Algebra and Number Theory, reward of excellence	2021

LANGUAGES

Chinese (mother tongue), English (C1), French (A2), Japanese (N4)

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.