

Jingyuan Zhu

Yongzhong Street Longxiang Road No. 2988 \diamond Wenzhou \diamond China
+33 7 44 88 65 54 \diamond jingyuan.zhu@universite-paris-saclay.fr \diamond zhuju19@gmail.com
Personal webpage (under construction): <https://jingyuan-zhu.com/>

EDUCATION

Master Mathématiques et Applications Faculté des Sciences, Orsay, France Université Paris-Saclay, Note: 17.62/20.00, with highest honor	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.	March 2024 - June 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	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 CaoExplored the major content of Morse theory, deriving a proof of Bott periodicity theorem for U and O	April 2022 - January 2023
A Report on Removable Singularities in Yang–Mills Fields <i>Minor Project as a part of curriculum</i> <ul style="list-style-type: none">A Report of an article by Karen K. Uhlenbeck	December 2022 - January 2023
A Report on the Existence of Harmonic Diffeomorphism from \mathbb{C} to \mathbb{D} <i>Minor Project as a part of curriculum</i> <ul style="list-style-type: none">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}	November 2021 - December 2021

HONORS/AWARDS

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

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.