Qianshu Huang

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NO.3 Meiyuan Dormitory, Wuhan University

EDUCATION BACKGROUND

Wuhan University (WHU), Wuhan, China 09/2020-(expected graduation in 06/2024)

Mathematics and Statistics College, pure mathematics (**Hongyi Honor Program**)

GPA: 3.91/4.00 (majored) 3.74/4.00 (general)

Courses: *Functional Analysis, Differential Geometry, Probability Theory, Real Analysis, Complex Analysis, Topology, Harmonic Analysis, Abstract Algebra, Commutative Algebra, Ordinary Differential Equations, Linear algebra, Basic Analysis*

University of California, Berkeley, Berkeley, CA, United States 01/2023-08/2023

Berkeley Global Access (International exchange program)

GPA: 4.00/4.00

Courses: MATH 250B *Commutative Algebra, A+*
MATH 208 *C*-algebra, A*
MATH 126 *Partial Differential Equations, A+*

ACADEMIC INTEREST

Geometry and Topology; Operator Algebra; Functional Analysis

RESEARCH EXPERIENCE

Enflo problem **Wuhan University** 09/2023-11/2023

- Guided by Prof. Yanqi Qiu;
- Conducted an in-depth study of the Enflo problem, focusing on the paper *The Rademacher type and Enflo type coincide* [Annals of Mathematics 192 (2020)] and other related works by Pisier, Talagrand, and Naor;
- Learned the content and achievement of the Ribe Program through Naor's paper *An introduction to the Ribe program*;
- Delivered 2 presentations and reports on the Enflo Problem to study groups, including instructor and graduate students.

C*-Algebra and K-Theory **UC Berkeley** 06/2023-07/2023

- Guided by Prof. Marc A. Rieffel;
- Delving into the realms of K_0 group through projections by using Wegge-Olsen's textbook *C*-Algebra and K-Theory*;
- Studied the basic algebraic K_0 group and its properties for some special ring from the first chapter of John Milnor's textbook *Introduction to Algebraic K-Theory*;
- Studied a mini lecture course *Directed graphs, variations on directed graphs, and their C*-algebras* by Jack Spielberg.

SEMINAR

Algebraic Topology **Wuhan University** Fall 2022

- Gave a report on the calculation of the homology group of some classic simplicial complexes.

Fourier Analysis **Wuhan University** Spring 2022

- Read and finished the exercises of the first five chapters of Stein's Fourier analysis.
- Delivered a lecture about the classic Fourier transform over real numbers.

Hongyi Academic Seminar **Wuhan University** 2021-2022

- Discussed difficult exercises encountered in the textbook and gave a lecture to share new knowledge weekly.

TEACHING EXPERIENCE

Mentor, Wuhan University **Wuhan University** 2021-2022

- Provided one-on-one assistance to lower-class students in solving problems related to abstract algebra, basic analysis and real analysis.
- Guided them on effective learning strategies in mathematics.

HONORS & AWARDS

- First-Class Luojia Outstanding Exchange Scholarship, Wuhan University 11/2023
- Third-Class Scholarship for Outstanding Students, Wuhan University 10/2022
- Third-Class Scholarship for Outstanding Students of Hongyi Honor College 10/2022
- Outstanding Student Award, Wuhan University 12/2021
- Third-Class Scholarship for Outstanding Students, Wuhan University 12/2021
- First-Class Scholarship for Freshmen (top 5%), Wuhan University 12/2020