EDUCATION

Harbin Institute of Technology (HIT)

09/2017- 06/2021

Bachelor of Science in Mathematics and Applied Mathematics.

Aix-Marseille University

09/2021-06/2022

Master of Fundamental Mathematics; Representation Theory and Langlands program

Full Scholarship Supported by the Archimedes Institute

Cardiff University

(Not enrolled because of Pandemic)

Doctor of Philosophy in Quantum Field Theory

Full Scholarship Supported by China Scholarship Council

Zurich Graduate School of Mathematics

02/2023-(ongoing)

Doctor of Philosophy in Homogeneous dynamics and trace formula

With Supervisor Prof. Dr. Alexander Gorodnik

SUMMER SCHOOL

University of Zurich: Distribution of Orbits: Arithmetics and Dynamics

05/27/2024-05/31/2024

 $On line\ Program\ Website:\ https://sites.google.com/view/distribution-of-orbits-2024/home$

Jagiellonian University: Dynamics and number theory
Online Program Website: https://dante.c.matinf.uj.edu.pl/home

05/27/2024-05/31/2024

Beijing University: Satellite Conference in Number Theory

Online Program Website: https://satelliteconference2023.casconf.cn

07/10/2024-07/14/2024

University of Zurich: Zurich Dynamics Conference and School

Oniversity of Zurich: Zurich Dynamics Conference and School

06/08/2023-06/16/2023

 $On line\ Program\ Website:\ https://www.math.uzh.ch/zdc23/index.php?id=130$

IMPAN Warsaw: Ergodic theory and parabolic dynamics

05/22/2023-06/02/2023

Online Program Website: https://www.impan.pl/en/activities/banach-center/conferences/23-ergodicthapady/program
University of Copenhagen: Relative Trace Formulae Master class 08/22/2022-08/26/2022

Online Program Website: https://www.math.ku.dk/english/calendar/events/relative-trace-formulae/

SuZhou University: Summer School about Theta Correspondence

07/03/2021-07/16/2021

Arizona Winter Semester 2021: Virtual School in Number Theory

01/25/2021-05/01/2021

Online Program Website: https://www.math.arizona.edu/~swc/

With additional support from CIMPA

AGITTOC Foundations of Algebraic Geometry, Stanford University Ravi Vakil

06/30/2020-09/17/2020

Course Format: Seminar

AASU-Algebra and Arithmetic Summer School, University of Antwerp

07/06/2020-07/11/2020

Online Program Website:

Smooth Representations of Reductive P-adic Groups Over Arbitrary Fields Short Course, Peking University

01/14/2020-01/17/2020

Algebraic Geometry, Algebraic Number Theory, Representation Theory Summer School, University of Chinese Academy of Sciences 07/27/2019-08/26/2019

The Road to Mathematics: Algebra and Number Theory Summer School, HIT

07/08/2019-07/28/2019

Total Score: A-

RESEARCH & PROJECT

The Equivalence of Godement-Jacquet and Langlands-Jacquet L-functions

Paris

Supervisor: Prof. Farrell Brumely

04/2022-07/2022

- Recollect the classical theory of L-functions by Riemann, Hecke and Tate
- Understand Construction of the equivalence between those two types of L-functions by theta correspondence
- Studied Spherical varieties to construct a unitary equivalence of L-fucntions

Local Langlands Programme

Weihai

Supervisor: Prof. Pi Qinghua

09/2019-11/2020

- Studied the Langlands theory, delivered Local Langlands Conjecture on GL(2) in the seminar
- Learned the course of *Module Form* and *Analytic Number Theory* in Shandong University, discussed the first four chapters of *Langlands Programme by Bushnell and Henniart* and *Bump* with graduate students

The Classification of Polygon with Genus 2 and 3

Supervisor: Prof. Wouter Castryck

07/03/2019-07/26/2019

- Completed the course of *Arithmetic Geometry* with excellent grade A- and ranked No.6 in the total of 65 classmates
- Finished the thesis, tried to improve the existing classification methods to make the estimation more accurate when Genus=N
- Further solidified the foundation of *Algebra and Number Theory*, understood the current research methodologies of number theory through participating in the international conference

Hopf Bifurcation Analysis in a Diffusive SIP Model with Time Delay

Weihai

Harbin

Supervisor: Prof. Niu Ben

09/2017-06/2021

- Analyzed the stability of the SIP/SIR model, explained the corresponding biological phenomena
- Understood the geometric theory of differential equations, delivered the course of *Ordinary Differential Equations and Geometric Theory* in the seminar of the research group
- Mastered the MATLAB to conduct the numerical simulation, completed the mathematical paper and thesis through Latex
- Participate in analysis the spread of epidemic diseases: Coronavirus-19

TA/RA EXPERIENCE

Local Langlands Correspondence on GL(2)

09/2019-02/2020

Ordinary Differential Equations and Geometric Theory

04/2018-07/2019

INTERNSHIP (La Stage)

Paris(ENS)-Bonn workgroup

Paris(ENS)

Research internship with Prof. Farrell Brumley

10/07/2021-06/30/2022

- Study the notes of Stanford Course note by Akshay Venkatesh on Geometric Quantization
- The details for papers of Nelson and Venkatesh
- > Understood Microlocal methods in automorphic forms
- Working on Master thesis about equivalence between Godement-Jacquet and Jacquet-Langlands by Gal Dor's method