ZHENGJIANG LIN

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EDUCATION

Zhejiang University — Hangzhou, Zhejiang, China
B.S. Candidate in Mathematics and Applied Mathematics — Sep. 2015 – present

- Overall GPA: 3.92/4.00 (rank 3/114)
- Third year GPA: 4.00/4.00

MIT — Massachusetts, U.S.
Visiting Student — Aug. 2017 – Dec. 2017

- Secured A in three graduate courses and one undergraduate course; audited Algebraic Geometry

The Chinese University of Hong Kong — Hong Kong, China
Visiting Student — Aug. 2018 – Sep. 2018

- Studied graduate-level algebraic topology, differential topology and Morse theory

RESEARCH EXPERIENCE

Zhejiang University (Department of Mathematics)
Research Assistant to Dr. Wenshuai Jiang — Mar. 2018 – Jul.2018
Multiple projects in geometric analysis

- Considering Sobolev inequalities on a special measure space
- Finding optimal constant of Logarithmic-Sobolev inequalities
- Considering generalization of Cheeger's compactness theorem

AWARDS

1. China National Scholarship (twice; top 1% performance each year)
2. Tang Lixin Scholarship (awarded to those with outstanding leadership and academic performance)
3. Outstanding Winner & INFORMS Award at 2017 American Interdisciplinary Contest in Modeling(top prize; held by SIAM and INFORMS)
4. Chu Kochen Honors College at Zhejiang University

ACADEMIC WORK EXPERIENCE

1. Teaching Assistant of Mathematical Analysis at Zhejiang University — Mar. 2018 – Jul. 2018
2. Teaching Assistant of Algebraic Topology at Zhejiang University — Sep. 2018 – present

GRADUATE-LEVEL COURSES

1. Algebraic Topology Ⅰ (studied at MIT, Hatcher's *Algebraic Topology*)
2. Geometry of Manifolds Ⅰ (studied at MIT, do Carmo's *Riemannian Geometry* and some parts of Yau's *Lectures on Differential Geometry*)
3. Introduction to Lie Groups (studied at MIT, course notes)
4. Algebraic Number Theory (Jurgen Neukirch's *Algebraic Number Theory*)
5. Elliptic Partial Differential Equations of Two Order (Fanghua Lin's *Elliptic Partial Differential Equations*)
6. Seminar of Lie Algebra (Humphreys's *Introduction to Lie Algebras and Representation Theory*)

HIGH-LEVEL READINGS

1. Peter Lax's *Functional Analysis* (completed most exercises in the first twenty-five chapters in sophomore year)
2. Michael Atiyah's *Introduction to Commutative Algebra* (most parts)
3. John Milnor's *Morse Theory* (completed)
4. Raoul Bott's *Differential Forms in Algebraic Topology* (studied at Chinese University of Hong Kong)
5. Victor Guillemin's *Differential Topology* (completed)
6. Phillip Griffiths's *Introduction to Algebraic Curves* (completed)
7. Peter Petersen's *Riemannian Geometry*
8. Peter Topping's *Lectures on the Ricci Flow*