

Curriculum Vitae

Yinzhe Gao

Education

Undergraduate: Tsinghua University, August 2014 – July 2018, expected.

- Major: Pure and applied mathematics
- GPA: 93/100 Rank 5/89

High school: Dalian No.24 High School, August 2011 – July 2014.

Honors

2017 S.-T. Yau College Mathematics Contests, Silver medal in Applied and Computational Mathematics, Bronze team medal

2017 Ruolin Excellent Undergraduate Award

Tsinghua Xuetang Talents Program (About 20% students are able to enter this program)

2017 Zhao FangXiong's Scholarship (First place in numerical analysis)

2017 Zhang Mingwei's Scholarship

2016 Sun Nianzeng's Scholarship (First place in mathematical analysis)

2016 Evergrande Scholarship

2015 Tung OOCL Scholarship

Conferences Attended

September 2017 AMS sectional meeting, UCF, Orlando, Florida.

April 2017 Tsinghua PhD forum

August 2016 Strings conference, Tsinghua University, Beijing, China.

Test Scores

GRE: 325/340 (Verbal 155, Quantitative 170, Analytic writing 3.5)

GRE Math subject: 910 (97%)

TOEFL: 108/120 (Reading 29, Listening 30, Speaking 22, Writing 27)

Academic Interest

Riemannian geometry, geometric analysis.

Research Experience

In general, I know some basic topology, Riemannian geometry and PDE.

I've followed two seminars in the past year. In the autumn of 2016, I read *Riemannian Geometry* by Peter Petersen under the supervision of Prof. Yuxiang Li. In the spring of 2017, I read the paper, *Minimal Two-Spheres and the Topology of Manifolds with Positive Curvature on Totally Isotropic Two-Planes*, under the supervision of Prof. Guoyi Xu.

In September 2017, I visited University of Wisconsin-Madison invited by Prof. Amir Assadi. We discussed about some ways of applying differential topology and differential geometry to

study signal processing.

Teaching Experience

I've taught high school students in Dalian No.24 High School about mathematical Olympiad contests during winter and summer holidays in 2015.

In the summer of 2017, I worked as a teaching assistant of a linear algebra class for Professor Amir Assadi.

Language Skill

English, Chinese (native), French (can read articles with the help of a dictionary)

Miscellaneous

I can use Matlab, Mathematica, Python, C++ and LaTeX.

I obtained the certificate of test of drum Lv.10 in 2007.

I am one of the editors of *Hesi* magazine, a magazine on mathematics held by students in mathematical department at Tsinghua.