

Since middle school, I have always been interested in mathematics and its applications in computer science. I initially entered Department of Computer Science and Technology, Tsinghua University with a silver medal in CMO'14 and a first prize in NOIP'13, and from middle school I am especially interested in geometry and combinatorics, which has built up a preliminary background for my current interests.

I entered IIS in Spring 2016. The early times in Dept CST helped me strengthen my fundamental understanding in computer science; after entering IIS, as I decided to take more courses than required to make more variety in my knowledge background, I found myself doing better in courses in connection with mathematics than those about algorithms or coding, and then gradually developed my research interest in the general direction: whatever combines mathematics and computer science, especially in computational topology, theoretical machine learning and computer graphics.

In Spring 2018, on the visiting program to UT Austin, I did research in the field of data-driven topological reconstruction under the supervision of Qixing Huang and Chandrajit Bajaj. During the visiting program, my supervisors let me learn by exploring instead of lead my way, so I gained much understanding about dictionary learning, information theory, non-convex optimization and etc, making an unusual experience as my first time to be a researcher. Now I am also doing a project on SLAM for dynamic landmarks under the supervision of Shi-Min Hu, expecting to publish on ICCV 2019.

As I have made a good foundation for academic research during the first two years in college, I am currently making my way and getting fulfilling progress for academic research. In the future way as a PhD, I will keep growing and put my passion and advantage for mathematical and interdisciplinary thinking into my academic career.