

# FAN YE

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## INTERESTS

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I am interested in low-dimensional topology, especially gauge theory and knot theory. I also have interests in symplectic geometry and mathematical physics.

## EDUCATION

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**PhD, University of Cambridge** Oct. 2019 - now  
Pure Maths and Math Statistics

**Bachelor of Science, Peking University** Sept. 2015 - July 2019  
School of Mathematical Sciences

**Special Student Program(non-degree), Massachusetts Institute of Technology** Feb. 2018 - Jan. 2019  
Department of Mathematics

## AWARDS AND HONORS

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**June 2019** Outstanding Graduates in Peking University  
**Dec. 2018** Bronze Medal in Alibaba Global Mathematics Competition  
**Oct. 2017** May Fourth Scholarship from Peking University  
**July 2017** Winning Prize in S. T. Yau College Student Mathematics Contests  
**May 2017** Honorable Mention in Mathematical Contest In Modeling  
**Nov. 2016** Accessit in China Undergraduate Mathematical Contest in Modeling  
**Oct. 2016** Merit Student at Peking University

## RESEARCH AND PROJECTS

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**Trisections of four manifolds(Senior Thesis)** Sept. 2018 - June 2019  
Supervised by Professor Clifford Taubes at Harvard.  
**Proofreading of lecture notes on algebraic geometry** July 2018 - Sept. 2018  
Supervised by Professor Michael Artin at MIT.  
**Representations of knot groups in  $SU(2)$**  May 2018 - Nov. 2018  
Supervised by Professor Tomasz Mrowka at MIT.  
**Fukaya category and homological mirror symmetry** Sept. 2016 - Oct. 2018  
Supervised by Professor Huijun Fan at Peking University.

## SELECTED TALKS

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**Khovanov homology, Lee theory and Rasmussen invariant, four talks.** Sept. 2018  
At the seminar held by Professor Clifford Taubes at Harvard.  
**Definition and application of Heegaard Floer homology, six talks.** June 2018  
At the seminar held by Professor Clifford Taubes at Harvard.  
**Symplectic topology and Darboux theorem, three talks.** Nov. 2017  
At the seminar held by Professor Bohan Fang at Peking University.

## CONFERENCES

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**Graduate Summer School in Park City Mathematics Institute, Utah, USA.** July. 2019  
**Sixth Abel Conference, Minneapolis, USA.** Nov. 2018  
**International Congress of Mathematicians(ICM), Rio De Janeiro, Brazil.** Aug. 2018  
**East Asian Symplectic Conference, Sichuan, China.** Oct. 2017