

Xiaohan YAN

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Gender: Male **Pronouns:** He/Him/His
DOB: 10/29/1999

EDUCATION

University of California Berkeley

Ph.D. in Mathematics (Thesis advisor: Prof. Alexander Givental)

2017-Present

Peking University

B.S. in Mathematics (Thesis advisor: Prof. Huijun Fan)

2013-2017

HONORS AND AWARDS

Outstanding GSI Award, *University of California, Berkeley*

2019

Ning's Fellowship for Chinese Students, *University of California, Berkeley*

2017-2019

Graduate summa cum laude, *Peking University*

2017

Founder Fellowship, *Peking University*

2015-2016

Yizheng Fellowship, *Peking University*

2014-2015

RESEARCH

Math

- Xiaohan Yan, "Quantum K-theory of flag varieties via non-abelian localization", *preprint*. arXiv: 2106.06281
- Alexander Givental and Xiaohan Yan, "Quantum K-theory of grassmannians and non-abelian localization", *Symmetry, Integrability and Geometry: Methods and Applications* **17**(2021), 018, 24 pages. arXiv:2008.08182 doi:10.3842/SIGMA.2021.018
- Danning Lu and Xiaohan Yan, "Relative Morse Categorification Theory", *preprint, undergraduate research*. arXiv:1611.06471

Non-Math

- Teng Yu, Wenlai Zhao, Pan Liu, Vladimir Janjic, Xiaohan Yan, Shicai Wang, Haohuan Fu, Guangwen Yang and John Thomson, "Large-Scale Automatic K-Means Clustering for Heterogeneous Many-Core Super-computer," *IEEE Transactions on Parallel and Distributed Systems*, **31**(2020), 5, pp. 997-1008. doi: 10.1109/TPDS.2019.2955467

TALKS

Quantum K-theory of flag varieties via non-abelian localization

- Korea Institute of Advanced Studies Geometry Seminar, *Seoul, Korea* Sept. 2021
- University of North Carolina Chapel Hill Physically Inspired Seminar, *Chapel Hill, US* Sept. 2021
- Institute for Advanced Study in Mathematics, *Hangzhou, China* June 2021

TEACHING AND EVALUATIONS

Math 54: Linear algebra and differential equations

- Graduate Student Instructor: evaluation 6.19/7 (department mean 5.77/7) *Spring 2021*
- Graduate Student Instructor: evaluation 6.24/7 (department mean 5.77/7) *Spring 2020*
- Graduate Student Instructor: evaluation 6.45/7 (department mean 5.71/7) *Fall 2019*

SKILLS

Python, C, Matlab, Auto CAD, LaTeX.

LANGUAGES

Mandarin (*native*), English (*fluent*), French (*Intermediate*), Latin (*Intermediate*).