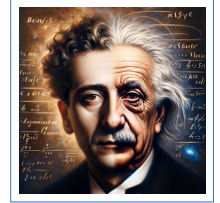


# Xianquan Yan

## Curriculum Vitae

Department of {Physics, Computer Science}  
National University of Singapore

 [Homepage](#)  [Github](#)  [LinkedIn](#)



### Education

2023–present **PhD Candidate, {Physics, Computer Science}**, *National University of Singapore*, Singapore.  
Supervisors: [Lee Ching Hua](#) and [Kenji Kawaguchi](#)  
Research Interests: Topological Matter, Complex Systems, AI for Physics, Graph Representation Learning.

GPA: 5.00/5.00

2019–2023 **BS, Physics**, *Sichuan University*, Chengdu, China.

GPA: 3.96/4.00 (Ranking 1/285)

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2022 **Visiting Student (BPIE), Physics**, *University of California, Berkeley*, Berkeley, CA, USA.

GPA: 4.00/4.00

2022 **Summer Institute, Physics**, *University of Oxford*, Oxford, UK.

GPA: 90/100

### Publications

- 2025 Xianquan Yan and Jian-Song Pan. Precise Identification of Topological Phase Transitions with Eigensystem-Based Clustering. 2025.
- 2025 Xianquan Yan, Hakan Akgün, Kenji Kawaguchi, N. Duane Loh, and Ching Hua Lee. Hsg-12m: A large-scale spatial multigraph dataset, 2025.
- 2025 Xianquan Yan. Automated Metric Discovery: Navigating Quantum Geometry with Symbolic Regression. 2025.
- 2025 Hakan Akgun, Xianquan Yan, Tamer Taskiran, Muhamet Ibrahim, Ching Hua Lee, and Seymur Jahangirov. Scale-invariant dynamics in a purely deterministic game of life model, 2025.

### Experience

2024–2025 **Teaching Assistant**, *National University of Singapore*, Singapore.

2022 **Student Research Assistant**, *Lawrence Berkeley National Laboratory*, Berkeley, CA, USA.

Supervisor: [Benjamin Nachman](#)

### Honors and Awards

- 2020 & 2021 **China National Scholarship** (Top 0.2%), The Ministry of Education of the P.R. China
- 2022 **1st Prize, Scholarship of Bajian program for fundamental disciplines 2.0**, The Ministry of Education of the P.R. China
- 2022 **1st Prize, CASC Scholarship**, China Aerospace Science and Technology Corp
- 2012 **Gold, Asia International Mathematical Olympiad Open Contest**, A.I.M.O. Union
- 2019 **Provincial Excellent Student Leader**, The Education Department of Sichuan Province
- 2020 **1st Prize and Best Demeanor Award**, South-West Undergraduate Physics Tournament, Sichuan Physical Society
- 2020 **2nd Prize, National English Competition for College Students**, Advisory Board for College Foreign Language Teaching

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## Extracurricular Activities

2013–2023 **Football (Soccer)**, *Captain, Left-Winger*, School Team.

2019–2021 **Debater**, *English Debate Team of Sichuan University & Chinese Debate Team of Department of Physics*.

2021–2023 **Director**, *Sichuan University Mathematica Society*.

2019–2021 **Director**, *Sichuan University English Association*.

**Calligraphy**.

**Marathon Runner**.