

Tan Jun Wei

Website: tanjunwei03.github.io

Email: tanjunwei03@gmail.com

Orcid: 0000-0003-0505-0157

Education

- **NUS High School of Mathematics & Science Diploma (High Distinction)** 2017-2022
Mathematics & Physics Honours, Chemistry Major CAP: 4.6
- **National University of Singapore** 2022
PC2174A Mathematical Methods in Physics Grade: A
- **Julius-Maximilians-Universität Würzburg** 2023-2025
Bachelor in Mathematical Physics In Progress

Professional Activities

- **Astronomy Club, NUS High School**
President 2021
In this position, I took an organisational role in the day to day functions of the Club, streamlining sessions while promoting the study of astronomy.
- **Singapore Physics League Organising Team**
Data Analyst 2023
In this role, I actively developed our capabilities of catching cheating teams from scratch, researching, analysing and advancing known research such as those listed in Lan (2014) and Wang (2020) applying maximum likelihood estimators, bayesian inference and variational analysis, modifying and assimilating them to the unique context of the Singapore Physics League.
Problem Setter 2023
In this role, I set and reviewed physics problems for talented students of ages from 13 to 18.

Research

Papers

- [1] R. Yang, J. W. Tan, T. Tai, J. M. Koh, L. Li, S. Longhi, and C. H. Lee, “Designing non-hermitian real spectra through electrostatics,” *Science Bulletin*, vol. 67, no. 18, pp. 1865–1873, 2022.

Conference Participation

- **Institute of Physics Singapore Meeting Poster Presentation** 2022

Projects in Progress

- Non-Hermitian generalization of the percolation problem
- Non-Hermitian Skin Effect in Moire Bilayer Lattices

Research Group Membership

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| • Prof. Lee Ching Hua | 2021- |
| • Prof. Dr. Ronny Thomale | 2023- |