

Kian Shah

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Overview

A third-year B.Sc. Mathematics and Physics student with a keen interest in Lie theory, differential geometry, and algebraic topology. Eager to contribute to theoretical physics research in these areas, focusing on connections between mathematical structures and physical phenomena.

Education

- 2023 – …  **B.Sc. Mathematics and Physics (Double Degree), University of Groningen**
Expected Graduation: 2027
Enrolled in Honours college program.
- 2016 – 2023  **Sahyadri School KFI**, Pune, India

Teaching experience

- 2025  **Teaching Assistant**- Metric and Topological Spaces, Functional Analysis
- 2024  **Graph Theory Workshop**, organized for students at my alma mater, Sahyadri School KFI

Projects

- 2024  **Minimal Surfaces Associated With Nonpolynomial Contact Symmetries**, ongoing Honours project.
-  **The Euler-Mascheroni Constant**, first-year Mathematics project.

Skills

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|---------------------|---|
| Languages |  Native proficiency in English, Hindi, Gujarati. |
| Coding |  Proficient in Java, Python, C/C++, comfortable with OOP, pointers, data structures. |
| Libraries and Tools |  L ^A T _E X, Matplotlib, Manim, Maple, and similar mathematical and visual tools. |
| Software |  Skilled at using Adobe Creative Suite applications, and 3D software Blender. |
| Music |  Multi-instrumentalist: Guitar, Drums, Piano, Tabla. |

Extracurricular Activities

- 2025  **Programme Committee** Chair of the Student Members - (Applied) Math, Systems and Control.
-  **Mentor**, for first-year (Applied) Mathematics students.
-  **PromoTeam**, (Applied) Mathematics.
- 2024  **Programme Committee** Member - (Applied) Math, Systems and Control.

Publications

- 1 K. Shah, “Problem 61 from kvpy 2016,” *At Right Angles*, vol. 13, pp. 62–63, 2022, ISSN: 2582-1873.  URL: <https://publications.azimpremjiuniversity.edu.in/id/eprint/3756>.