

KALLE HEINONEN

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PERSONAL DETAILS

I am a mathematics master's student in the study track of geometry, algebra and topology at University of Helsinki.

EDUCATION

Bachelor of Science in Mathematics, University of Helsinki 2020 - 2023 completed

Minor in computer science

Master of Philosophy in Mathematics, University of Helsinki 2023-2024 to be completed

SKILLS

Technical Skills	Problem solving, LaTeX, Python, Haskell, basics of Matlab, R and SQL.
Mathematics knowledge	Mainly around fields such as topology, abstract algebra, modern geometry and some topics in analysis.
Computer science knowledge	The basic minor studies such as python programming, computer organization, algorithms and databases. Additionally functional programming in Haskell.
Languages	Finnish: Native, English: Full professional proficiency, Swedish: Limited.

TEACHING EXPERIENCE

Course assistant Oct 2021 - May 2024

University of Helsinki

- Solvery tutor¹.
- Academic skills in mathematics MAT20005 2 ECTS².
- Algebraic structures I and II / MAT21010 and MAT21011 5 + 5 ECTS.
- Functional analysis I and II / MAST30170 and MAST30171 5 + 5 ECTS.
- Topology Ia and Ib / MAT21005 and MAT21006 5 + 5 ECTS.

OTHER ACADEMIC ACTIVITIES

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| • Vice student representative of bachelor's program in mathematics at University of Helsinki. | 2023-2024 |
| • Vice member of the HYY ³ representative council. | 2022-2024 |
| • Multiple responsibilities including the board in Matrix Ry ⁴ . | 2021-2024 |
| • Vice chair of Moodi ry ⁵ . | 2024 |
| • Multiple responsibilities in University of Helsinki student nation Hämäläis-Osakunta. | 2021-2024 |

¹Tutoring sessions in university mathematics.

²Freshman course for mathematical reading and writing.

³Student union of the University of Helsinki.

⁴Mathematics student organization.

⁵Statistics student organization.