Joel Hakavuori

Curriculum Vitae

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- 1/2025— **PhD Student**, Sorbonne Université / IMJ-PRG
 Advised by Karim Adiprasito. I will spend the 2025-26 academic year as a Fulbright scholar at the University of Michigan.
- 1/2023- MSc Mathematics, Aalto University, GPA 4.94/5
- 9/2024 MSc thesis: "Nonpositive curvature, ℓ^2 -invariants, and right-angled Coxeter groups". Advised by Karim Adiprasito and Kaie Kubjas.
- 8/2020– **BSc Engineering Physics & Mathematics**, *Aalto University*, GPA 4.94/5 1/2023

Experience

- 5/2024- Research Assistant, Aalto University, Department of Mathematics
- 7/2024 Research assistant in the group of Prof. Kaie Kubjas, writing my MSc thesis.
- 5/2023- **Visiting Research Fellow**, *Hebrew University of Jerusalem, Einstein Institute of*
- 7/2023 Mathematics
 - REU participant, advised by Karim Adiprasito and Eran Nevo.
- 11/2022- Research Intern, Nokia
 - 5/2023
- 6/2022- Research Assistant, Aalto University, Department of Mathematics
- 8/2022 Research project in combinatorial commutative algebra advised by Alexander Engström and Milo Orlich.
- 9/2021- **Teaching Assistant**, Aalto University, Department of Mathematics
- 12/2024 TA for various courses in mathematics, including linear algebra, discrete mathematics, calculus, and optimization.

Research

Subadditivity of shifts, Eilenberg-Zilber shuffle products and homology of lattices (with Karim Adiprasito, Anders Björner, Minas Margaritis and Volkmar Welker), 2024. Submitted, available at arXiv:2404.16643.

Honours and Awards

2024 **Fulbright Finland Foundation**, Fulbright–Technology Industries of Finland Doctoral Grant, \$35,000–\$50,000

Fulbright grant for 1-year doctoral research visit in the US.

2024 Osk. Huttunen Foundation, Doctoral Grant, 85,500€

A three-year grant for doctoral studies in mathematics at the Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG).

2023 **Aalto University**, Combined Student Fund Scholarship, 1,000€

Award for academically successful master's students who have completed their BSc degree in Aalto University.

2023 **Aalto University, Department of Mathematics**, *Travel grant*, 500€ Travel grant to attend HUJI REU program.

2022 **Aalto University**, *Professor E.J. Nyström's scholarship*, 1,000€ Award for success in studies in mathematics.

2021-2024 **Aalto University**, *Dean's scholarship*, 500€ (annual) Award for success in studies.

Languages

Finnish Native

English Fluent

Swedish Professional proficiency