

Kim Kristian Myyryläinen | CV

Aalto University, Department of Mathematics, P.O. Box 11100, 00076 Aalto, Finland

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EDUCATION

Aalto University	Espoo, Finland
• Doctor of Science (Technology) in Mathematics Advisor: Prof. Juha Kinnunen	2020 – 2024 (expected)
• Master of Science (Technology) in Mathematics The average grade of the master's studies is 5.00/5.	2018 – 2020
• Bachelor of Science (Technology) in Mathematics Minor: Computer Science The average grade of the bachelor's studies is 4.72/5.	2015 – 2018
École polytechnique fédérale de Lausanne (EPFL), Switzerland	
• Exchange student (master's level)	2018 – 2019

OTHER RESEARCH EXPERIENCE

Aalto University	Espoo, Finland
Research Assistant, advisor: Prof. Riikka Korte	
• Master's thesis on "John-Nirenberg spaces and medians".	Spring 2020
• A special assignment on "Functions of bounded mean oscillation defined by medians".	Summer 2017
• Bachelor's thesis on "Hausdorffin mitta ja tiheystuloksia".	Summer 2016

TEACHING EXPERIENCE

Aalto University	Espoo, Finland
Head Teaching Assistant for the courses:	
• Real Analysis	Spring 2024
• Measure and Integral	Fall 2023
• Harmonic Analysis	Spring 2023
• Measure and Integral	Fall 2022
• Real Analysis	Spring 2022
• Curves and Surfaces	Fall 2021
• Matrix Algebra (SCI)	Spring 2021
• Differential and Integral Calculus 1 (SCI)	Fall 2020
Aalto University	Espoo, Finland
Teaching Assistant for the courses:	
• Differential and Integral Calculus 3	Spring 2018
• Euclidean Spaces	Spring 2018
• Differential and Integral Calculus 1 (ELEC2)	Fall 2017
• Differential and Integral Calculus 3 (ENG)	Fall 2017
• Differential and Integral Calculus 3	Spring 2017

PUBLICATIONS

- J. Kinnunen and K. Myyryläinen, *Characterizations of parabolic Muckenhoupt classes*, Adv. Math. 444 (2024), Paper No. 109612.
- K. Myyryläinen and D. Yang, *Parabolic John–Nirenberg spaces with time lag*, Math. Z. 306 (2024), no. 3, 46.
- K. Myyryläinen, *Weak Gurov–Reshetnyak class in metric measure spaces*, Proc. Amer. Math. Soc. 152 (2024), no. 5, 2103–2116.
- J. Kinnunen, K. Myyryläinen, D. Yang and C. Zhu, *Parabolic Muckenhoupt weights with time lag on spaces of homogeneous type with monotone geodesic property*, Potential Anal. 60 (2024), 1513–1569.
- J. Kinnunen, K. Myyryläinen and D. Yang, *John–Nirenberg inequalities for parabolic BMO*, Math. Ann. 387 (2023), 1125–1162.
- J. Kinnunen and K. Myyryläinen, *Dyadic John–Nirenberg space*, Proc. Roy. Soc. Edinburgh Sect. A 153 (2023), 1–18.
- K. Myyryläinen, *Median-type John–Nirenberg space in metric measure spaces*, J. Geom. Anal. 32 (2022), no. 4, 131.

PREPRINTS

- J. Kinnunen and K. Myyryläinen, *Characterizations of parabolic reverse Hölder classes* (submitted).
- K. Myyryläinen, C. Pérez and J. Weigt, *Weighted fractional Poincaré inequalities via isoperimetric inequalities* (submitted).

ATTENDED CONFERENCES

- Workshop on Nonlinear Parabolic PDEs, Institut Mittag-Leffler (invited talk) May 2024
- Seminar on Stochastics and PDEs, University of Jyväskylä (invited talk) Mar 2024
- International Prague seminar, Charles University (invited talk) Feb 2024
- MathDays24, Aalto University (invited talk) Jan 2024
- Beijing Normal University (two invited talks) Nov 2023
- HADE, Bilbao, Spain Sep 2023
- Quasiworld Workshop, University of Helsinki Aug 2023
- IWOTA 2023, University of Helsinki (invited talk) Jul 2023
- IWOTA 2022, Krakow, Poland (invited talk) Sep 2022
- NCM28, Aalto University (invited talk) Aug 2022
- NAFSA 12, Czech Technical University in Prague May 2022
- AGENT–Forum, Aalto University (invited talk) Oct 2021
- GMT2018, University of Helsinki Jun 2018

GRANTS

- The Magnus Ehrnrooth foundation doctoral training grant 2022–2024

SKILLS

Foreign languages Finnish (native), English (fluent), Russian (fluent), Swedish (basic)