

# The list of publications of Juha Kinnunen

## A monograph submitted for publication

1. J. Kinnunen, J. Lehrbäck and A. Vähäkangas, *Maximal Function Methods for Sobolev Spaces*, 265 pages (2020).

## Articles submitted for publication

2. P. Garain and J. Kinnunen, *Nonexistence of variational minimizers related to a quasilinear singular problem in metric measure spaces* (2020).

3. A. Banerjee, P. Garain and J. Kinnunen, *Some properties of subsolutions and supersolutions for a doubly nonlinear nonlocal parabolic  $p$ -Laplace equation* (2020).

4. R. Kr. Giri, J. Kinnunen and K. Moring, *Supercaloric functions for the parabolic  $p$ -Laplace equation in the fast diffusion case* (2020).

## Articles in international refereed journals

5. V. Bögelein, F. Duzaar, J. Kinnunen and C. Scheven, *Higher integrability for doubly nonlinear parabolic systems*, *J. Math. Pures Appl.* (9) **143** (2020), 31-72.

6. J. Kinnunen, R. Korte, J. Lehrbäck and A.V. Vähäkangas, *A maximal function approach to two-measure Poincaré inequalities*, *J. Geom. Anal.* **29** (2019), 1763-1810.

7. T. Heikkinen and J. Kinnunen, *A median approach to differentiation bases*, *Atti. Accad. Naz. Lincei Rend. Lincei Mat. Appl.* **30** (2019), 41-66.

8. J. Kinnunen, P. Lehtelä, P. Lindqvist and M. Parviainen, *Supercaloric functions for the porous medium equation*, *J. Evol. Equ.* **19** (2019), 249-270.

9. J. Kinnunen, J. Lehrbäck, A.V. Vähäkangas and X. Zhong, *Maximal function estimates and self-improvement results for Poincaré inequalities*, *Manuscripta Math.* **158** (2019), 119-147.

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12. J. Kinnunen and O. Saari, *Parabolic weighted norm inequalities and partial differential equations*, *Anal. PDE* **9** (2016), 1711-1736.

13. L. Berkovits, J. Kinnunen and J.M. Martell, *Oscillation estimates, self-improving results and good-lambda inequalities*, *J. Funct. Anal.* **270** (2016), 3559-3590.

14. J. Kinnunen and P. Silvestre, *Resistance conditions, Poincaré inequalities, the Lip-lip condition and Hardy's inequalities*, *Demonstr. Math.* **49** (2016), 50-63.

15. J. Kinnunen and O. Saari, *On weights satisfying parabolic Muckenhoupt conditions*, *Nonlinear Anal.* **131** (2016), 289-299.

16. J. Kinnunen and P. Lindqvist, *Unbounded supersolutions of some quasilinear parabolic equations: a dichotomy*, *Nonlinear Anal.* **131** (2016), 229-242.

17. J. Kinnunen, R. Korte, N. Marola and N. Shanmugalingam, *A characterization of BMO self-maps of a metric measure space*, *Collect. Math.* **66** (2015), 405-421.

18. H. Hakkarainen, J. Kinnunen and P. Lahti, *Regularity of minimizers of the area functional in metric spaces*, *Adv. Calc. Var.* **8** (2015), 55-68.

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22. B. Bojarski, J. Kinnunen and T. Zürcher, *Higher order Sobolev-type spaces on the real line*, J. Funct. Spaces, 2014, Article ID 261565, 13 pp.
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30. B. Bojarski, L. Ihnatsyeva and J. Kinnunen, *How to recognize polynomials in higher order Sobolev spaces*, Math. Scand. **112** (2013), 161-181.
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33. J. Kinnunen, N. Marola, M. Miranda and F. Paronetto, *Harnack's inequality for parabolic De Giorgi classes in metric spaces*, Adv. Differential Equations **17** (2012), 801-832.
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### Book review

86. J. Kinnunen, *Anders and Jana Björn: "Nonlinear potential theory on metric spaces"*, Jahresber. Dtch. Math.-Ver. **115** (2013), 47-50.