JAKUB TAKÁČ

University of Warwick, United Kingdom

EDUCATION

Ph.D. study, Mathematics Mathematics Institute, University of Warwick, United Kingdom Supervisor: David Bate Field of interest: <i>Geometric measure theory</i>	2021 - present
Master study, Mathematical Analysis Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic Master thesis: Interpolation of logarithmically convex combinations of operators	2019 - 2021
Bachelor study, Mathematics Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic Bachelor thesis: <i>Optimality of function spaces for integral operators</i> ; see [3]	2016 - 2019
PUBLICATIONS AND PREPRINTS	
[1] D. Bate and J. Takáč, Typical Lipschitz maps on rectifiable metric spaces; arXiv:2306.07943	
[2] V. Musil and L. Pick and J. Takáč, <i>Optimality problems in Orlicz spaces</i> ; arXiv:2209.14208	
[3] J. Takáč, Optimality of function spaces for kernel integral operators; Math. Nachr. (2023), 1-25., https://doi.org/10.1002/mana.201900545	
AWARDS	
Second place in the competition SVOČ in Mathematics and Computer Science held in Brno for project titled <i>Optimality of function spaces for integral operators</i>	2019
Dean's prize for the best Bachelor thesis in the academic year 2018/2019 in mathe- matics (Charles University in Prague, Faculty of Mathematics and Physics) for the thesis Optimality of function spaces for integral operators	2019
Second place (no first place awarded) in the competition SVOČ in Mathematics and Computer Science held in Prague for project titled <i>Interpolation of logarithmically</i> convex combinations of operators	2021
Dean's prize for the best Master thesis in the academic year 2020/2021 in mathe- matics (Charles University in Prague, Faculty of Mathematics and Physics) for the thesis Interpolation of logarithmically convex combinations of operators	2021
Awarded the Red Diploma (i.e. graduated with exceptional grades) for my Master study (see above)	2021
SCHOLARSHIPS AND GRANTS	
Scholarship for excellent study results	2016/2017
Scholarship for excellent study results	2019/2020
P201-18-00580S, Czech Science Foundation (young researcher)	2018-2020
Danube Region Grant no. 8X21 TIFREFUS (young researcher in the Czech team)	2020-2021
GAUK (Grant agency of the Charles university) number 327321 (principal investigator)	2021

INVITED TALKS

Function spaces seminar, Charles University, Prague, Czech Republic	December 2022
Geometric Analysis and Calculus of Variations (GeoCa 22), Lysečiny, Czech Republic	December 2022
Workshop on geometric measure theory and analysis on metric spaces, University of Warwick, United Kingdom	August 2022
TEACHING EXPERIENCE	
Teaching Assistant, Mathematics 1, Faculty of Social Sciences, Charles University Awarded the "Zlatý kurz" (=golden course) prize	winter 2019/2020
Teaching Assistant, Mathematics 2, Faculty of Social Sciences, Charles University Awarded the "Zlatý kurz" (=golden course) prize	summer 2019/2020
Teaching Assistant, Mathematical Analysis 1, Faculty of Mathematics and Physics, Charles University	winter 2020/2021
Guide for first year students during times of distant teaching (part of the official "Pruvodci" programme at the Faculty of Mathematics and Physics, Charles University)	2020/2021
Teaching Assistant, Measure Theory, University of Warwick	winter 2022/2023
Teaching Assistant, Norms, Metrics and Topologies, University of Warwick	spring 2022/2023
PARTICIPATION AT CONFERENCES AND WORKSHOPS	
Function Spaces and Applications XII, Spring School on Analysis, Paseky nad Jizerou, Czech Republic	2023
NAFSA 12 (Nonlinear Analysis, Function Spaces, Applications), Prague, Czech Republic	2022
International Workshop on "Geometric measure theory and Harmonic analysis", Hausdorff center for mathematics, Bonn, Germany	2022
International Conference "LUBOŠ60", Železná Ruda, Czech Republic	2021
International Workshop "Per Partes", Lysečiny, Czech Republic	2021
International Workshop "GeoCa" (Geometric Analysis and Calculus of Variations), Lysečiny, Czech Republic	2020
International Conference "QIND60" (Qualitative Improvement and New Dimensions), Špindleruv Mlýn, Czech Republic	2020
Sommerschule "Analysis und Theoretische Numerik", Siegmundsburg, Germany	2020
Semminar "Function Spaces and PDEs", Male Ciche, Poland	2019
Sommerschule "Analysis und Theoretische Numerik", Siegmundsburg, Germany	2019
11^{th} Spring School of Function Spaces and Applications, Paseky nad Jizerou, Czech Republic	2019