



PERSONAL INFORMATION

Name Jan Grebík
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PROFESSIONAL EXPERIENCE

MSCA Global Fellow – Masaryk University and UCLA	since 2023
Research Assistant – Mathematics Institute, University of Warwick	2019–2023
Student Researcher – Institute of Mathematics Czech Academy of Sciences	2015–2019
Student Researcher – Institute of Computer Science CAS	2018

EDUCATION

PhD in Mathematics, Charles University, Czechia	2016–2020
Visiting student, Cornell University, US	spring 2019
Mgr in Mathematics, Charles University, Czechia	2014–2016
Bc in Mathematics, Charles University, Czechia	2011–2014

SUMMARY OF SCIENTIFIC RECORD

Research interests: descriptive set theory, combinatorics, random processes, local algorithms, tilings

Publications: 28 papers (20 papers published in mathematical journals, 1 paper published at a computer science conference, 7 preprints)

Journal publications include those in Forum of Mathematics Pi, Advances in Mathematics, International Mathematics Research Notices (IMRN), Enseignement Mathématique, Proceedings of the American Mathematical Society (PAMS), Annales Henri Lebesgue, Combinatorica, Journal of Symbolic Logic (JSL), Journal of Combinatorial Theory, Series B (JCTB), Journal of Combinatorial Theory, Series A (JCTA), and Fundamenta Mathematicae.

Awards:

Marie Skłodowska-Curie Global Postdoctoral Fellowship 2023-2025

Mary Ellen Rudin Award 2022

Faculty of Science, Engineering and Medicine PostDoc Prize University of Warwick 2021

Josef Hlávka Prize 2018

SELECTED INVITED TALKS

Derandomization in descriptive graph combinatorics, Descriptive Set Theory Dynamics conference, (2023, Warsaw, Poland)

Descriptive graph combinatorics and distributed computing, The 37th Summer Conference on Topology and Its Applications, *plenary talk*, (2023, Youngstown, Ohio)

Measurable Vizing's theorem, Measured Group Theory, Stochastic Processes on Groups

and Borel Combinatorics, (2023, CIRM, Luminy, France)
Measurable tilings, Workshop on Borel and Measurable Combinatorics in Algebra and Dynamics, (2023, Fields Institute, Toronto, Canada)
Descriptive set theory and distributed computing, 56th Spring Topology and Dynamical Systems Conference (STDC), *plenary talk*, (2023, online)
Descriptive set theory and distributed computing, Colloquium, (2023, University of Florida, US)
Borel graphs with large Borel chromatic number, SEALS 2023, (2023 University of Florida, US)
Complexity problem in measurable combinatorics, Nankai Logic Colloquium (online), (2022, Nankai University, China)
Local problems from various perspectives, Descriptive graph theory, (2022, American Institute of Mathematics, San Jose, USA)

INVITED SEMINAR TALKS (20+)

Including UCLA combinatorics seminar, UCLA logic seminar, CMU logic seminar, Caltech logic seminar, University of Florida Logic seminar, Oxford Algorithms Seminar, McGill Descriptive Dynamics and Combinatorics Seminar, DIMAP seminar, UBC Probability seminar, EPC webinar, Lancaster Algebra and Geometry Seminar, Warwick Combinatorics seminar, Cornell Logic Seminar

TEACHING AS INSTRUCTOR

Functional analysis I, University of Warwick, Term 1, 2022-2023.

STUDENTS

Nicholas Andrew Hodge, *Improved Bounds on the Sunflower Lemma*, *MSc Thesis*, University of Warwick, 2021-2022.

ORGANIZING CONFERENCES AND SEMINARS

Thematic semester Measurable Combinatorics, Erdos Center, Hungary, 2024
AlgoMaNet Algorithms and Mathematics Network, Jagiellonian University, Poland, 2024
UCLA logic colloquium, UCLA, US 2024
Oberwolfach mini-workshop Descriptive Combinatorics, LOCAL Algorithms and Random Processes, Germany, 2022
Winter school in Abstract Analysis: Set theory and topology, Czechia, 2020–2024
Warwick Combinatorics seminar, University of Warwick, UK 2020–2022

LONG TERM RESEARCH VISITS

Cornell University, US, visiting student, host S. Solecki, March–May 2019
Warwick University, UK, host O. Pikhurko, November 2018
Thematic semester in descriptive set theory, Lausanne, Switzerland, June 2018
AKTION program, University of Vienna, Austria, supervisor B. Miller, March–May 2018
National Autonomous University of Mexico, Mexico, host M. Hrušák, May 2017