

Curriculum Vitae

Péter Pál Pach

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Personal Data

Name: Péter Pál Pach

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Studies

2009–2012: PhD in Theoretical Mathematics, Eötvös Loránd University (ELTE), Budapest (PhD 2013)

2004–2009: MSc in Mathematics, Eötvös Loránd University (ELTE), Budapest

Affiliation

2024–present HUN-REN Rényi Institute, senior research fellow, head of the MTA-HUN-REN RI Lendület „Momentum” Arithmetic Combinatorics Research Group

2019–2024 head of the MTA-BME Lendület „Momentum” Arithmetic Combinatorics Research group

2022–present Department of Computer Science and Information Theory, Budapest University of Technology and Economics (BME), senior research fellow

2017–2022 Department of Computer Science and Information Theory, Budapest University of Technology and Economics (BME), associate professor

2017–2018 DIMAP, University of Warwick, research fellow (advisor: Dan Král’)

2013–2017 Department of Computer Science and Information Theory, Budapest University of Technology and Economics (BME), assistant professor

2012–2013 Department of Computer Science and Information Theory, Budapest University of Technology and Economics (BME), assistant lecturer

Prizes

- Csanád Imreh Commemorative Prize, 2025
- Frontiers in Science Award, 2024
- Paul Erdős Prize, 2023
- European Prize in Combinatorics, 2021
- Bolyai plaque, 2020
- Géza Grünwald Medal, 2015

Fellowships and grants as PI

- Lendület (Momentum) Grant (2024-2029)
- Lendület (Momentum) Grant (2019-2024)
- Hungarian Scientific Research Fund (OTKA) PD115978 Applications of Combinatorics in Multiplicative Number Theory, 2015-2019 (36 months)
- János Bolyai Research Scholarship, 2015-2019 (36 months)
- Erdős Pál Young Researcher Scholarship, 2014 (5 months)

Selected invited talks

- Workshop on Additive Combinatorics and Algebraic Connections, Princeton, IAS, 2022
- The 1st Workshop on Developments in Combinatorics, Shandong University (online), 2021
- EuroComb, Barcelona (online), 2021 (prize lecture)
- 7th International Conference on Uniform Distribution Theory, Linz (online), 2021
- Additive Combinatorics, CIRM, Luminy (hybrid), 2020
- One day Meeting on Extremal Combinatorics, EWha University, Seoul, 2020
- IBS One-Day Conference on Extremal Graph Theory, Daejeon, 2019
- The 11th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications, Tokyo, 2019
- London Colloquia in Combinatorics, 2019
- One day workshop on Extremal Combinatorics, EWha University, Seoul, 2019
- Additive Combinatorics workshop, Linz, 2018
- Arithmetic Ramsey Theory in Manchester, 2018
- Workshop on Algebraic Methods in Combinatorics, Harvard, 2017
- Polynomial method workshop, Jerusalem, 2016
- Polynomial method workshop, Bristol, 2016

Colloquium talks

Masaryk University, Brno; FU Berlin; TU Graz

Seminar talks

Bordeaux, Eötvös University (Budapest), FU Berlin, London School of Economics, Masaryk University (Brno), Rényi Institute (Budapest), University of Birmingham, University of Bristol, University of Warwick, University of Waterloo, TU Graz

Tutorial series

Summer School: Additive Combinatorics, Erdős Center, Budapest (2024), Minicourse, Budapest (2022), Prague Summer School on Discrete Mathematics (2018)

Other contributions to the research community

- 2005–present: member of the Editorial Board of *Kömal*
- 2009–present: member of the Kürschák Competition Committee, between 2019–2023 the chair of the committee
- 2014–present: member of the Hungarian National Mathematical Olympiad (OKTV) Committee, from 2021 the chair of the committee
- 2020–present: editor of *Studia Scientiarum Mathematicarum Hungarica*
- 2021–present: member of the Hungarian Young Academy (FKA)
- Organizer of REU programs (2020, 2021, 2022, 2023, 2024, 2025)
- Organizer of Drafting Workshop in Discrete Mathematics and Probability (Budapest, 2023)
- External evaluator of research proposals: ISF
- Refereeing for journals including *Acta Arith.*, *Acta Math. Hungar.*, *Adv. Math.*, *Australasian Journal of Combinatorics*, *Bull. of the LMS*, *Combinatorica*, *Coll. Math.*, *Dem. Math.*, *Discrete Analysis*, *Disc. Appl. Math.*, *Disc. Math.*, *Eur. J. of Combinatorics*, *Finite Fields and their Applications*, *Forum of Math. Sigma*, *Integers*, *Israel Journal of Math.*, *Journal of Number Theory*, *JCTA*, *Math. Annalen*, *Linear Algebra and Its Applications*, *Mathematische Nachrichten*, *Proc. of the AMS*, *Proc. of the LMS*
- Reviewing for MathSciNet and Zentralblatt