

# Curriculum Vitae

Péter Pál Pach

September 2018

## Personal Data

**Name:** Péter Pál Pach

**Place of birth:** Budapest

**Date of birth:** 30 December 1985

**E-mail:** ppp@cs.bme.hu

## Studies

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

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

**1998–2004:** Mihály Fazekas High School, Special Mathematics Class, Budapest

## Affiliation

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

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

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

**2017–2018** DIMAP, University of Warwick, research fellow

## Teaching

**2006–2013** Eötvös Loránd University (ELTE), in Hungarian

**2012–** Budapest University of Technology and Economics (BME), in Hungarian and in English

**2012–** Budapest Semesters in Mathematics (BSM), in English

**2015–** Aquincum Institute of Technology (AIT), in English

## Talks

1. Prague Summer School on Discrete Mathematics 2018 (invited lecture series)
2. Joint International Meeting of the Chinese Mathematical Society and the American Mathematical Society, Shanghai, 2018 (invited)
3. Combinatorial and Additive Number Theory, New York, 2018
4. 10 Year Anniversary DIMAP Workshop, University of Warwick, 2017
5. Workshop on Algebraic Methods in Combinatorics, Harvard, 2017 (invited)
6. Vilnius Conference in Combinatorics and Number Theory, Vilnius, 2017

7. Journées Arithmétiques, Caen, 2017
8. CanaDAM, Toronto, 2017 (invited minisymposium talk)
9. 10th Japanese-Hungarian Symposium on Discrete Mathematics and Its Applications, Budapest, 2017
10. Polynomial method workshop, Jerusalem, 2016 (invited)
11. Polynomial method workshop, Bristol, 2016 (invited)
12. Conference on elementary and analytic number theory, Strobl am Wolfgangsee, 2016
13. Combinatorial and Additive Number Theory, New York, 2016
14. Additive Combinatorics in Bordeaux, 2016
15. Combinatorial and Additive Number Theory, Graz, 2016
16. 9th Hungarian-Japanese Symposium on Discrete Mathematics and its Applications, Fukuoka, 2015
17. Summit:240 Conference, Budapest, 2014
18. International colloquium on graph theory and combinatorics, Grenoble, 2014
19. Paul Turán Memorial Conference, Budapest, 2011
20. Artic Number Theory School, Helsinki, 2011
21. International Congress of Mathematicians (Poster section), Hyderabad, India, 2010
22. Number Theory and its Applications, Debrecen, 2010
23. Summer School on General Algebra and Ordered Sets, Malenovice, 2010
24. International Conference on Algebras and Lattices, Prague, 2010
25. Combinatorics, Groups, Algorithms, and Complexity, Columbus, Ohio, 2010

### **Seminar Talks**

1. University of Bristol, Heilbronn Number Theory Seminar, 2018
2. University of Bristol, Combinatorics Seminar, 2018
3. University of Warwick, DIMAP Seminar, 2017
4. University of Birmingham, Combinatorics Seminar, 2017
5. London School of Economics, Seminar on Combinatorics, Games and Optimisation, 2017
6. University of Warwick, Combinatorics Seminar, 2017
7. PTE, Mathematics Seminar, 2017
8. ELTE, Analysis Seminar, 2016
9. ELTE, Finite Geometry Seminar, 2016
10. Rényi Institute, Combinatorics Seminar, 2016
11. Rényi Institute, Number Theory Seminar, 2016

12. BME, SZIT Seminar, 2012
13. ELTE, Algebra Seminar, 2011
14. ELTE, Algebra Seminar, 2009

## Prizes

1. Excellent Teacher of the Faculty, silver degree (2016)
2. János Bolyai Research Scholarship (2015-2018)
3. Géza Grünwald Medal (2015)
4. Erdős Pál Young Researcher Scholarship (2014)
5. Honourable Mention of the Dean (2013)
6. Sport and Education Scholarship (2011)
7. International Mathematics Competition for University Students, First prize, member of the winning team of ELTE (Blagoevgrad, 2008)
8. Excellent Student of the Faculty Award (2008)
9. Vojtěch Jarník International Mathematical Competition, 8th place (Ostrava, 2008)
10. Miklós Schweitzer Memorial Competition, honourable mention (2007)
11. International Mathematics Competition for University Students, First prize, member of the winning team of ELTE (Blagoevgrad, 2007)
12. Fellowship granted by the Republic of Hungary (2007-2008)
13. Miklós Schweitzer Memorial Competition, Third Prize (2006)
14. International Mathematics Competition for University Students, First prize (Odessa, 2006)
15. Vojtěch Jarník International Mathematical Competition, 4th place (Ostrava, 2006)
16. Operation Research Competition, First Prize (2005)
17. Miklós Schweitzer Memorial Competition, honourable mention (2005)
18. International Mathematics Competition for University Students, First prize (Blagoevgrad, 2005)
19. Fazekas Medal of Honour (2004)
20. International Mathematical Olympiad, First Prize (Athens, 2004)
21. International Mathematical Olympiad, Second Prize (Tokyo, 2003)

## Research projects

1. Hungarian Scientific Research Fund (NFKIH) K129335 Additive problems (2019-2022), investigator
2. European Research Council (ERC) No 648509, research fellow
3. Hungarian Scientific Research Fund (NFKIH) K124171 Optimal Mapping of Communication Services onto Cloud Computing Architectures Based on Discrete Mathematical Methods (2017-2021), investigator
4. Hungarian Scientific Research Fund (OTKA) PD115978 Applications of Combinatorics in Multiplicative Number Theory (2015-2019), principal investigator
5. Hungarian Scientific Research Fund (OTKA) K108947 Optimization Methods for Cloud Computing and Communications (2013-2018), investigator
6. Hungarian Scientific Research Fund (OTKA) NK67867 Discrete and Continuous: interfaces between graph theory, algebra, analysis and geometry (2010), investigator

## Role in Scientific Community

1. 2005– member of the Editorial Board of *Kömal*
2. 2009– member of the Kürschák Competition Committee
3. 2014– member of the Hungarian National Mathematical Olympiad (OKTV) Committee
4. refereeing for *Acta Mathematica Hungarica*, *Bulletin of the London Mathematical Society*, *Combinatorica*, *Demonstratio Mathematica*, *European Journal of Combinatorics*, *Journal of Number Theory*, *Journal of Combinatorial Series A*, reviewing for *Zentralblatt*