

## CURRICULUM VITAE

### PERSONAL DETAILS:

- **Name:** Gergely Pataki
- **Born:** 1975, Debrecen, Hungary
- **Place of work:**  
Budapest University of Technology and Economics, Institute of Mathematics  
H-1111 Egry József u. 1 (Building H), Budapest, Hungary.  
**Mailing address:** Pf. 91 H-1521, Budapest, Hungary.  
**Phone:** +36 1 463 2475  
**E-mail:** pataki@math.bme.hu  
**URL:** [www.math.bme.hu/~pataki](http://www.math.bme.hu/~pataki)

### EDUCATION:

- **University Diploma (M.Sc.) in Mathematics:** 1998, Kossuth Lajos University, Debrecen.  
Master Thesis Title: *A relátorterek jólláncoltsága (Well-chainedness of relators)*, (in hungarian).  
Supervisor: Árpád Száz.

### SCIENTIFIC DEGREE:

- **Ph.D. in Mathematics and Computer Sciences:** 2005, University of Debrecen.  
Ph.D. Thesis Title: *Well-chained, connected and simple relators*.  
Supervisor: Árpád Száz.

### JOBS:

- **University of Debrecen (UD), Faculty of Natural Sciences, Institute of Mathematics, Department of Analysis:**  
1998–2001: Computer assistant  
2001–2004: PhD student in platform Mathematical Analysis, functional equations and inequalities
- **Szent István University (SZIU), Gödöllő, Faculty of Mechanical Engineering, Institute of Mathematics and Informatics, Department of Mathematics:**  
2004–2005: Department engineer  
2005–2006: Assistant professor  
2006–2021: Senior lecturer
- **Budapest University of Technology and Economics (BUTE), Faculty of Natural Sciences, Institute of Mathematics, Department for Analysis:**  
2006–: Senior lecturer
- **Hungarian University of Agriculture and Life Sciences, Szent István Campus, Institute of Mathematics and Basic Science, Department of Mathematics and Modeling:**  
2021–2022: Egyetemi adjunktus

## LANGUAGES:

- **Hungarian** (mother tongue)
- **English**
- **German**

## PAPERS:

- *Two illustrating examples for comparison of uniform and proximal spaces using relators*, *Annales Mathematicae et Informaticae* **55** (2022), 137–157. MR????????, Zbl????????, DOI: <https://doi.org/10.33039/ami.2022.09.002>
- *Investigation of Topological Spaces Using Relators*, *Applied General Topology* **23(1)** (2022), 45–54. MR????????, Zbl????????, DOI: <http://dx.doi.org/10.4995/agt.2022.16128>
- *Investigation of Proximal Spaces Using Relators*, *Axioms*, **10**, **143** (2021), 1–10. MR????????, Zbl????????, DOI: <https://doi.org/10.3390/axioms10030143>
- *On the right-continuity of infimal convolutions*, *Ann. Math. Inform.*, **45** (2015), 69–77. MR3438814, Zbl0657.6823
- *On a generalized infimal convolution of set functions*, *Ann. Math. Sil.*, **27** (2013), 99–106. MR3157122, Zbl1321.03060
- *Well-chained, connected and simple relators*, Ph.D. Thesis, University of Debrecen, (2004), 1–120.
- *On the convergence of some particular series*, *Tatra Mt. Math. Publ.*, **28(2)** (2004), 169–177. MR2086989, Zbl 1112.40003
- *On the convergence of the series  $\sum a_n^{1-x_n/\log(1+n)}$* , *Buletinul Ştiinţific*, **18** (2002), Nr. 1, 65–68. MR2014284, Zbl 1030.40002
- *On the convergence of some particular series*, *Abstracts of The 17<sup>th</sup> Summer Conference on Real Functions Theory*, (Stará Lesná, 2002), 56–56.
- *On the convergence of the series  $\sum a_n^{1-x_n/n}$* , *Publikacije Elektrotehničkog Fakulteta* **12** (2001), 61–63. MR1920359, Zbl 1051.40003
- *A unified treatment of well-chainedness and connectedness properties*, *Acta Math. Acad. Paedagog. Nyházi. (N.S.)* **19(2)** (2003), (elektronikus), 101–165 (with Árpád Szász). MR2037991, Zbl 1049.54023
- *On the extensions, refinements and modifications of relators*, *Mathematica Balkanica* **15** (2001), no. 1-2, 155–186. MR1882531, Zbl 1042.08001
- *On the infinitesimal refinements of relators*, *Abstract of the Third Joint Conference on Mathematics and Computer Science*, Visegrád 1999, 61.
- *Supplementary notes to the theory of simple relators*, *Radovi Matematički* **9** (1999), no. 1, 101–118. MR1763711, Zbl 0943.54017

- *Well-chained relators revisited*, Tech. Rep., Inst. Math. Inf., Univ. Debrecen, **98/15**, 1–12 (with Árpád Száz).
- *Characterizations of nonexpansive multipliers on partially ordered sets*, *Mathematica Slovaca* **51** (2001), no.4, 371–382 (with Árpád Száz). MR1864106, Zbl 0991.06001
- *A relátorok jólláncoltsága (Well-chainedness of relators)* (in hungarian), Master Thesis, Kossuth Lajos University, Debrecen (1998), 1–39.

#### TALKS:

- *Az infimális konvolúcióról (On the infimal convolution)*, (in hungarian), *Analízis Szeminárium*, BME, 2016.
- *Uniform, topologikus és relátor terek (Uniform, topological and relator spaces)*, (in hungarian), *Analízis Szeminárium*, BME, 2014.
- *A relátor terekről (On the relator spaces)*, (in hungarian), *Analízis Szeminárium*, BME, 2013.
- *Well-chained, connected and simple relators*, Ph.D. Defence, University of Debrecen, 2005.
- *A relátorok jólláncoltságairól (On the well-chainednesses of relators)*, (in hungarian) 10<sup>th</sup> Síkfőkút Analysis Seminar, Síkfőkút 2004.
- *On the convergence of some particular series*, 17<sup>th</sup> Summer Conference on Real Functions Theory, Stará Lesná 2002.
- *A  $\sum a_n^{1-c_n/n}$  konvergenciájáról (On the convergence of  $\sum a_n^{1-c_n/n}$ )*, (in hungarian) 8<sup>th</sup> Síkfőkút Analysis Seminar, Síkfőkút 2001.
- *On the infinitesimal refinements of relators*, Third Joint Conference of Mathematics and Computer Science, Visegrád 1999.
- *A relátorok infinitezimális kifinomításáról (On the infinitesimal refinements of relators)*, (in hungarian) 7<sup>th</sup> Síkfőkút Analysis Seminar, Síkfőkút 1999.
- *Az egyszerűség fontosabb, mint a jólláncoltság (Simplicity is more important than well-chainedness)*, (in hungarian) 2<sup>nd</sup> Analysis Miniseminar, Kossuth Lajos University, Debrecen, 1999.