Curriculum vitae
December 5, 2024

1 Personal Data

Name:	Péter L. Erdős
Born:	August 24. 1956
Citizenship:	Hungarian
Languages:	Hungarian (native), English (fluent), German, and Dutch (read)
Spouse:	Gabriella Erdős
Children:	Dorka (1985), Marci (1988)
Home address:	H-1037 Budapest, Góbé u. 11/3, Hungary, Phone: +36302746940
Affiliation:	A. Rényi Institute of Mathematics, L. Eötvös Research Network, Budapest, Hungary, Phone: +3614838302 E-mail: erdos.peter@renyi.hu
Mailing address:	H-1053, Reáltanoda u. 13-15, Budapest, Hungary,

2 Education

Doctor	of the Hungarian Academy of Sciences, 2008
Candidate	of the Mathematical Sciences, Hung. Academy of the Sciences, 1991
Ph. D.	Eötvös L. University, Budapest, 1982, advisor: G.O.H. Katona
M.S.	Eötvös L. University, Budapest, 1980, advisor: M. Simonovits

3 Positions

2009–	Research Professor, A. Rényi Institute of Mathematics, Eötvös Lóránd Research Network (ELKH), Budapest, Hungary
2002–2009	Senior research associate, A. Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary
1997– 2002	Senior research associate, Head of Department, A. Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary
1995–1996	Lecturer, Institute of Mathematics and Computer Science, University of Agriculture, Gödöllő, Hungary
1983–1996	Research Fellow by Title, Mathematical Institute of the Hungarian Academy of the Sciences
1994–1995	Computer Advisor to the Hungarian delegation to Organization for Prohibition of Chemical Weapons, United Nations, The Hague, The Netherlands

1992–1995	Visiting researcher, Center for Mathematics and Computer Science, Amsterdam, The Netherlands
Spring 1992	Research fellow, Department of Applied Mathematics, University of Twente, Enschede, The Netherlands
Fall 1991	Universitair Docent, Department of Econometrics, University of Groningen, Groningen, The Netherlands
Spring 1991	Research fellow, Department of Applied Mathematics, University of Twente, Enschede, The Netherlands
1989–1990	Research fellow of the A.v.Humboldt Stiftung, Institut für Ökonometrie und Operations Research, University of Bonn, Bonn, Germany
1985–1989	Various positions in the computer business, Budapest Hungary
1980–1987	Assistant Professor of Mathematics, University of Economics, Budapest

4 Mentoring young researchers

2019–2023	Tamás Róbert Mezei, A. Rényi Institute of Mathematics.

5 Memberships

2019	Visiting Professor, School of Computing, Engineering and Mathematics, Western Sydney University, Sydney, Australia.
2013	Visiting Professor, Dept. of Physics, University of Notre Dame, IN, USA.
2008	Visiting Fellow in the School of Computing Sciences, University of East Anglia, Norwich, UK.
2006–2020	Hungarian Society for Bioinformatics,
2002–2003	Member of the Research Group - "General Theory of Information Transfer and Combinatorics", ZIF, University of Bielefeld, Germany
1995–	Institute of Combinatorics and its Applications, Winnipeg, Canada
1978–	J. Bolyai Mathematical Association, Budapest, Hungary

6 Recent short-term visits

Sept. - Dec. 2024	"Theory, Methods, and Applications of Quantitative Phylogenomics", ICERM, Brown University, Providence, RI
October 2019	Western Sydney University, Sydney; University of Tasmania, Hobart; Australia
June - July 2019	University of Notre Dame, Indiana, USA
October 2018	Northeastern University, Boston, USA

October 2018	University of Notre Dame, Indiana, USA
October 2018	University of Illinois at Urbana-Champaign, Illinois, USA
April / May 2018	University of Canterbury, Christchurch, New Zealand, University of New South Wales, Sydney, Australia
March 2018	Technical University of Delft, Delft, The Netherlands
May 2017	Technical University of Delft, Delft, The Netherlands
April 2017	Tel Aviv University, Tel Aviv, Israel;
April 2016	University of Colorado at Denver, Denver, Colorado; Los Alamos National Laboratory, Los Alamos, New Mexico, USA
November 2015	Tel Aviv University, Tel Aviv, Israel
Sept.-Dec. 2014	Humboldt Fellow, Universität Hamburg, Hamburg, Germany
June 2013	Max-Planck-Institute für Physik Komplexer Systeme, Dresden, Germany
March 2013	University on Notre Dame, Indiana, USA
Feb. 2013	Warwick Complexity Forum, University of Warwick, UK
Jan.–April 2011	Humboldt Fellow, University of Bielefeld, Germany
Oct.–Dec. 2010	University of Illinois at Chicago, USA

7 Acting as scientific expert for international projects

Jan. 2022	Reviewer of Paris Region Fellowship Programme, MSCA, France
Jan. 2021	Reviewer of Paris Region Fellowship Programme, MSCA, France
2016 − 2020	Reviewer for H2020 MSCA IF - MAT
Jan. 2016	Reviewer for ICT Programme PLEXMATH
Jan. 2015	NSA Mathematical Sciences Grants Program
2014 - 2023	Different European Union sponsored research programs (Marie Curie Fellowship, Twinning Program, etc.)
Jan. 2014	NSA Mathematical Sciences Grants Program
Nov. 2013	Reviewer for ICT Programme PLEXMATH
March 2013	NSA Mathematical Sciences Grants Program
continuous	reviewer for several international scientific journals

8 Invited speaker at recent conferences

Sept. 16 - 20, 2024	"Current Methods and Open Problems in Mathematical and Statistical Phylogenetics", ICERM, Brown University, Providence, RI, USA
July 20 - 27, 2024	International Symposium on Combinatorial Optimization, 2024, Montrel, Canada
Nov. 24 - 26, 2023	Workshop on Information Theory and Related Fields In Memory of Ning Cai, Bielefeld, Germany
March 19 − 24, 2023	Dagstuhl Seminar 23121, Pattern Avoidance, Statistical Mechanics and Computational Complexity, Germany
October 13-14, 2022	Middle-European Conference on Applied Theoretical Computer Science, MATCOS-22, Kopr, Slovenia
July 11-15, 2022	29th British Combinatorial Conference, United Kingdom
Nov. 4-9, 2018	Genomics, Pattern Avoidance, and Statistical Mechanics, Workshop 18451, Dagstuhl, Germany
July 9-13, 2018	ICGT 2018, Lyon, France
June 26-30, 2017	The Second Malta Conference in Graph Theory and Combinatorics, Malta
Feb. 14-19, 2016	Pattern Avoidance and Genome Sorting, Workshop 16071, Dagstuhl, Germany
Jan. 4, 2014	Workshop in Honour of Miklós Simonovits, Budapest
May 15, 2013	Workshop for the General Assembly meeting Hungarian Academy of Sciences in Honour of Ervin Győri
July 15-20, 2012	Structure Discovery in Biology: Motifs, Networks & Phylogenies, Workshop 12291, Dagstuhl, Germany
May 14-18, 2012	Mathematical Physics of Complex Networks: from Graph Theory to Biological Physics (MAPCON12), Max Planck Institute for the Physics of Complex Systems in Dresden, Germany.
Aug. 29-02, 2011	Eurocomb 2011 and Katona '70, Budapest, Hungary
June 21-24, 2011	Alignment-free sequence comparison, Venice, Palazzo Cavalli-Franchetti, Italy.
June 6-11, 2010	Structure Discovery in Biology: Motifs, Networks & Phylogenies, Workshop 10231, Dagstuhl, Germany
July 27-31, 2009	XV. Midsummer Combinatorial Workshop, Prague, Czech Republic
April 7-9, 2009	Pretty Structures, Existential Polytime and Polyhedral Combinatorics, Institute Henri Poincare, Paris, France
May 12-15, 2008	ROGICS'08 Mahdia, Tunezia

March 27-29, 2008	Molecular Informatics and Bioinformatics; International Symposium, Institute for Advanced Study, Collegium Budapest, Hungary
Oct. - Nov. 2007	Phylogenetics, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom
March 19-21, 2007	From Molecular Informatics To Bioinformatics International Symposium, Institute for Advanced Study Collegium Budapest, Hungary
June 13-14, 2006	First conference of the Hungarian Bioinformatics Society, Budapest, Hungary
May 2006	"Combinatorial and Algorithmic Foundations of Pattern and Association Discovery" - Schloss Dagstuhl, International Conference And Research Center For Computer Science, Germany
May 2004	"Gathering on Phylogenetic Combinatorics" - The Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany
Febr. 2002	"Paths, Permutations and Trees", Nankai University; invited speaker and Chairman of the Opening Session
Nov. 2002	Opening conference of the research group "General Theory of Information Transfer and Combinatorics", Center for Interdisciplinary Research, Bielefeld, Germany
Oct. 2002	Conference "Wissenschaftsdialog in Südosteuropa zum Thema Neue Technologien", A.v. Humboldt Foundation, Zagreb, Croatia

9 Recent Scientific Grants

2020-2023	National Research, Development and Innovation Office — NKFIH grant SSN 135643.
2019-2022	National Research, Development and Innovation Office — NKFIH grant K 116769.
2017-2019	National Research, Development and Innovation Office — NKFIH grant KH 126853.
2016-2019	National Research, Development and Innovation Office — NKFIH grant K 116769 and SNN 116095.
2012-2015	Grant #FA9550-12-1-0405 from the U.S. Air Force Office of Scientific Research (AFOSR) and the Defense Advanced Research Projects Agency (DARPA).
2009-2013	Hungarian National Scientific Fund (OTKA) No.: NK 78439
2007-2011	Hungarian National Scientific Fund (OTKA) No.: K 68262
2007-2010	Hungarian Bioinformatics MTKD-CT-2006-042794, Marie Curie Host Fellowships for Transfer of Knowledge
2006-2009	Hungarian National Scientific Fund (OTKA) No.: NK 62321

2005-2008 Hungarian National Scientific Fund (OTKA) No.: AT 048826

2003-2006 Hungarian National Scientific Fund (OTKA) No.: T 37846

2001-2004 Hungarian National Scientific Fund (OTKA) No.: T 34702

Oct.–Dec. 2002 A.v Humboldt fellowship, University of Bielefeld, Germany

Sept. 2001 NATO research fellowship, University of Cologne, Germany

Sept.–Oct. 2000 DAAD visiting professor scholarship, University of Cologne, Germany

10 Research Area

- Topics in Combinatorics:
    - Extremal problems for set systems and for partially ordered sets
    - Degree sequence problems in graph theory
    - Extremal graph theory
- Bioinformatics:
    - Phylogenetics
    - DNA String problems
    - Genom rearrangement
- Theoretical Computer Science
    - Constrain Satisfaction Problem
    - Complex networks
    - Sampling problems in Network theory

Papers in a separate list