Curriculum vitae
Lajos Rónyai

Personal

Born: January 18, 1955, Szekszárd, Hungary.
Citizen and permanent resident of Hungary.
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Education, degrees

Corresponding member of the Hungarian Academy of Sciences, since 2001.
DSc from the Hungarian Academy of Sciences, 1999.
Obtained the degree Dr. Habil. from the Technical University, Budapest in 1997.
PhD from the Hungarian Academy of Sciences, 1987.
Thesis Title: Algebraic Algorithms. Adviser: Prof. László Babai
Diploma in Mathematics, Eötvös University, Budapest, 1979.
Thesis Title: Nilrings. Adviser: Prof. Ervin Fried
Studied mathematics at Eötvös University, 1974-79.

Awards

Farkas Bolyai Prize, 2000 from the Hungarian Academy of Sciences for work in research and education.
Ottó Benedikt Prize, 2000 for distinguished achievements in research and education.
Received *Count Széchenyi Professorial Scholarship* in 1997 for the period 1998-2001.
Recipient of the *László Kalmár Memorial Medal* from the John von Neumann Computer Society, Hungary, for outstanding work in research and education in the Computing Sciences, 1997.
Recipient of the *Prize of the Research Division, MTA SZTAKI*, 1994, for quality publications.
Recipient of the *Junior Scientist Award* of the Hungarian Academy of Sciences, 1985, for work in Computer Science.

Current position

Chairman of the Department of Algebra at the Technical University, Budapest, since 2001.
Professor of Computer Science and Mathematics, Technical University of Budapest, since 1997.
Head, Informatics Laboratory, Computer and Automation Institute, Hungarian Academy of Sciences, since 1995.
Scientific Advisor, Computer and Automation Institute, Hungarian Academy of Sciences, since 1999.

Visiting positions

Visiting Professor at the Department of Computer Science, University of Chicago, 1995.
Visiting Assistant Professor at the Department of Computer Science, University of Chicago, 1988-89.
Visiting Assistant Professor at the Department of Computer Science, University of Chicago, spring quarter 1987.
Visiting Instructor at the Computer and Information Science Department, University of Oregon, 1984-85.

Fields of interest

Computer science, in particular high-performance algorithms in symbolic computation, information systems, data structures, databases, theory and practice of programming.
Mathematics, in particular algebra, and discrete mathematics.

Teaching experience

Courses on algebra and computing at the Faculty of Natural Sciences, Technical University, Budapest, since 2000.

Lecturer of the course *Database systems* for 3rd year informatics-majors at the Faculty of Electrical Engineering and Informatics, Technical University, Budapest, 1990-2000 (4 classroom hours/week, Spring semester).

Lecturer of the course *Theory of algorithms* for 2nd year informatics-majors at the Faculty of Electrical Engineering and Informatics, Technical University, Budapest, since 1990-2000 (3 hours/week, Fall semester).

Algebra and theory of computing courses at Eötvös University, 1980, 1987.
Graduate courses on databases, and on arithmetical and algebraic algorithms at the University of Chicago, 1988-89 and Spring 1987.
Regular teaching (average 6 classroom hours per week) at the Department of Computer and Information Science, University of Oregon (4 quarters, 1984-85), including advanced undergraduate and graduate data structures, graduate and undergraduate databases, undergraduate analysis of programs, graduate algorithms.

Graduate students

Gábor Ivanyos, 1994-1996, defended Candidate of Math. Thesis in 1997.
Ferenc Bodon, Technical University, Budapest, since 2000.
Gábor Hegedűs, Technical University, Budapest, since 2001.

Hungarian research projects

OTKA Infrastructure Grant, 1999, (proposer).
OTKA 104051, Algebraic methods in computer science, 1999-2002. (project leader).
OTKA T016503, Algebraic methods in computer science, 1995-1998. (project leader).
AKP 96-350/24, Algorithms for representations of algebras, 1996-1997. (project leader).
OTKA 2581, Algebraic algorithms and finite valued logics, 1991-1994. (project leader).

International research projects

INCO/COPERNICUS ALTEC-KIT, 1997-1998. (Hungarian site manager).
EC Cooperative Action IC 1000, ALTEC (Algorithms for Future Technologies), 1992-1995. (Hungarian site manager).

Publications

Over 50 research papers, one textbook, a book-chapter, 7 educational and popular scientific articles. Topics covered include algorithms for symbolic computation, databases, theoretical computer science, discrete mathematics.

Membership in learned societies

External Fellow of the Mathematical Institute, Hungarian Academy of Sciences, 1996.
Gesellschaft für Angewandte Mathematik und Mechanik, since 1993.
Hungarian Chapter of the ACM, since 1992.
János Bolyai Mathematical Society, Hungary, since 1979.

Membership in professional committees

Board of Natural Sciences, OTKA (National Fund for Scientific Research, Hungary), since 2001.
Hungarian National Committee of GAMM (Gesellschaft für Angewandte Mathematik und Mechanik), since 1993.
Computer Science Committee of the Hungarian Academy of Sciences, since 1993.

Membership in editorial boards

Editorial Board of the *Journal of Algorithms*, a monthly periodical of Academic Press, since 1995.
Editorial Board of *Matematikai Lapok* , the official journal of J. Bolyai Math. Soc., since 1991.
Editorial Board of *Acta Mathematica Hungarica*, since 2001.

Language skills

Mother tongue: Hungarian. Fluent in English, reading skill in German, Russian.