

## Biographical sketch for László A. Székely

**HOME PAGE:** <http://www.math.sc.edu/~szekely/> gives link to

- his publication list (over 130 items)
- his citation list (over 1350 items)

### DEGREES:

- Master of Sci., Eötvös University, 1980,
- Ph. D., Eötvös University, 1983,
- Candidate for Math. Sci., Hungarian Academy of Sciences, 1987,
- Doctor of the Hungarian Academy of Sciences, 1998.

### POSITIONS:

- 1982–84: research fellow at József Attila University, Szeged,
- 1984–91 associate professor at Eötvös University, Budapest,
- 1986–87: postdoctoral fellow at the University of Auckland, New Zealand,
- 1988–90: visiting associate professor at University of New Mexico,
- 1991–96 senior associate professor at Eötvös University, Budapest,
- 1991–92: Alexander von Humboldt Fellow, Bonn, Germany
- 1992–93: visiting associate professor at University of New Mexico,
- 1994–96 Director of the Institute of Mathematics I at Eötvös University, Budapest
- 1996– professor at the University of South Carolina, Columbia
- 2002–03 Visiting Fellow at the National Center for Biotechnology Information, Bethesda MD, (ten months, while on sabbatical leave)
- 2005–07 Interim Director of the Industrial Mathematics Institute at USC, Columbia

**Ph.D. THESIS ADVISEES:** Yiting Yang (current), Hua Wang (2005)

**MASTER'S DEGREE THESIS ADVISEES:** D. Henson (2006), J. Burns (2000), S. Bokros (1999), C. Szász (1996), G. Heteyi (1988), J. Solymosi (1988), B. Radtke (1985), L. Körmöczy (1984), Z. Blázsik (1984)

### EDITORSHIP:

- Managing editor of the journal *Combinatorica* 1987–1995 (with some gaps),
- Editorial board member of the journal *Combinatorica* since 1995,
- Editorial board member of the journal *Central European J. Mathematics* since 2009
- Editorial board member of the journal *International J. Combinatorics* since 2009
- Editorial board member of the journal *SIAM J. Discrete Mathematics* since 2003,
- Guest editor of the special issue **35A** (1993) of *Ars Combinatoria*,
- Editor of the volume *Graph Theory and Combinatorial Biology*, Bolyai Society Mathematical Studies **7**, Budapest, 1999,
- Guest editor of the issue **28** (2002) (4) of *Discrete and Computational Geometry*.

### AWARDS, HONOURS, SCHOLARSHIPS:

- “People’s Republic Scholar”, for the academic years 1978–79 and 1979–80 (university student population).
- Alexander von Humboldt Fellow, 1991–92, 12 months, 2010, 3 months at the Rheinische Friedrich-Wilhelms Universität, Bonn, Germany
- “Doctor of the Hungarian Academy of Sciences”, 1998.
- Russell Research Award for Science, Mathematics and Engineering, University of South Carolina, 2007

- Two Thumbs Up! teaching award, University of South Carolina, 2009
- Marie Curie Fellowship in bioinformatics at the Rényi Mathematical Research Institute of the Hungarian Academy of Sciences (2 months in 2007) (2 months in 2008) (2 months in 2009) (2 months in 2010)

#### **CONFERENCE ORGANIZATION:**

- organizer of a session on “Mathematical Methods in Molecular Biology” at the International Conference on Combinatorics and Graph Theory, Balatonlelle, 1996
- organizer of the poster session of the conference “Paul Erdős and His Mathematics”, Budapest, 1999
- co-organizer of a special session on “Discrete and Computational Geometry and Graph Drawing”, # 963 Meeting of the American Mathematical Society, Columbia SC, 2001.
- member of the organizing committee of the NSF/CBMS Regional Research Conference in Mathematical Sciences on Geometric Graph Theory, Denton TX, 2002,
- co-organizer of an invited double minisymposium at the SIAM Conference on Discrete Mathematics Nashville, June 2004
- member of the Program Committee of the 12th International Symposium on Graph Drawing, New York City, September 29–October 2, 2004
- member of the organizing committee of the SIAM Discrete Mathematics Conference, June 2006, Vancouver BC
- member of the organizing committee of the Ondrej Šýkora Memorial Theory Day, June 11 2006, Loughborough University
- co-organizes a Special Session on “Algebraic and Extremal Combinatorics” at the AMS Southeastern Sectional Meeting, March 2007, Davidson College, NC
- member of the organizing committee of the “Mini-Conference on Applied Combinatorics with emphasis on Search Theory” at Columbia SC, October 2007
- member of the Scientific Committee of “Fifth International Conference of Applied Mathematics and Computing” Plovdiv, Bulgaria, August 12 - 18, 2008
- co-organizer of an invited double minisymposium at the SIAM Conference on Discrete Mathematics, Burlington, Vermont, June 2008
- Conference chair of the “33rd SIAM-SEAS conference”, April 2009, Columbia SC

#### **RESEARCH GRANTS:**

- Efficient communication in networks, (1992-93) ONR contract N-0014-91-J-1385  
co-PI, PD: Roger C. Entringer, total amount: \$ 75,000
- New problems in the theory of finite set systems, (1995-98)  
by the Hungarian National Science Fund contract T 016 358  
PD, co-PI: Péter L. Erdős, total amount: HUF 1,480,000
- Extremal combinatorics, (1997-2000), by NSF contract DMS 9701211  
co-PD, co-PD: Jerry Griggs, total amount: \$ 135,000
- On the analysis and interpretation of biological sequence data, (2000),  
by the South Carolina Commission on Higher Education,  
co-PI, PD: A. Hughes, co-PIs: Walter Piegorsch, John Rose  
total amount applied for: \$ 170,000 (approved with reduced budget),
- Combinatorics and its applications, (2000-2003), by NSF contract DMS 0072187  
co-PD, co-PD: Jerry Griggs, total amount: \$ 165,000.

- Computational improvements in statistical genomics through the use of novel hardware and parallelized software (2002), by USC (Focal Points of Excellence)  
co-PD, co-PDs: Peter Waddell and Duncan Buell, total amount: \$ 58,108
- Visiting Fellow at the National Center of Biotechnology Information (NCBI/NLM/NIH) (2002-03, ten months), by the Oak Ridge Institute for Science and Education, total amount: \$ 34,000
- Combinatorics with Applications (2003–2006), by NSF contract DMS 0302307,  
co-PD, co-PD: J. Griggs, total amount: \$ 210,601
- Phylogenetic Analysis with with Complex Genome Rearrangement Events (2006–2009)  
by NIH NIGMS 1 R01 GM078991-01,  
co-I, PI: Jijun Tang (USC CSE) and co-I Todd Vision (UNC Biology)  
total amount: \$ 649,000
- Extremal and Probabilistic Combinatorics (2007–2010)  
by NSF under contract DMS 070 1111  
PI, co-PI: Lincoln Lu  
total amount: \$ 104,118
- Administrative Supplement: Phylogenetic Analysis with Complex Genome  
Rearrangement Events (2009–10)  
by NIH NIGMS under contract number 3 R01 GM078991-03S1  
co-I, PI: Jijun Tang, co-I's: Eva Czabarka and Todd Vision  
total amount: \$ 89,000

#### **INVITATIONS TO CONFERENCES:**

Have been invited speaker at conferences in the USA, Canada, China, Mexico, Hungary, New Zealand, France, England, Germany, Slovakia, Slovenia and the Netherlands.

#### **SEMINARS:**

Among other places, gave talks at Yale University, University of Pennsylvania, University of California at Berkeley, and the Los Alamos National Laboratory. Gave seminars in the following foreign countries: England, Hungary, Italy, Germany, Poland, Canada, Australia, New Zealand, South Africa.

#### **LONGER VISITS:**

- Memphis State University (1 month in 1989)
- Zentrum für interdisziplinäre Forschung, Bielefeld (one week in 1991)
- Università degli Studi di Napoli Federico II, Naples (two weeks in 1991)
- DIMACS at Rutgers, (Math. Support to Mol. Biology Year) (one month in 1995)
- Stefan Banach International Mathematical Center, Warsaw (two weeks in 1999)
- Loughborough University, England, (3 wks 2001)(2 wks 2002)(1 mth 2004)(1 mth 2005)  
(1 mth 2006)
- University of Canterbury, Biomathematics Research Centre, Christchurch, New Zealand  
(one month in 1998) (two weeks in 2000) (three weeks in 2004);
- Rényi Institute, Budapest (2 months in 2007, 2008, 2009, 2010)
- Newton Institute, Cambridge University (1 month in 2007)

#### **REVIEWER:**

wrote 23 book reviews, more than 300 reviews for Zentralblatt, reviewed proposals for NSF, NSA, NSERC, Israeli NSF, Hungarian NSF (OTKA), Austrian NSF (FWF)