

CURRICULUM VITAE

Date of Birth: 1961

Name: Dr. Károly SIMON

Present appointment: Professor (full professor) at the Technical University of Budapest, Hungary

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Nationality: Hungarian (EU National)

Studies and degrees:

2007: DSc. degree from Hungarian Academy of Sciences.

2002: Habilitation. Awarded by Technical University of Budapest.

1992: Awarded the degree of "candidate of sciences" (from the Hungarian Academy of Sciences, supervisor: Péter Major).

1991: Awarded doctorate (Budapest, Eötvös University, supervisor: Miklós Laczkovich).

1984: Ms.C. from mathematics, (University of Szeged, Hungary. Supervisor: Vilmos Totik).

Appointments:

2008: Professor at the Technical University of Budapest.

2008: Visiting professor at the Institute of Mathematics Polish Academy of Sciences (IMPAN) for 2 months.

2005-2006: Marie Curie Research Fellow at the University of Warwick.

2005: Visiting associate professor at the University of Washington (for 6 months).

2002 Visiting professor at the Facult de Mathmatiques et d'Informatique Universit de Picardie Jules Verne, Amiens, France for a month.

1999-: Associate professor at the Technical University of Budapest.

1996-97: Visiting associate professor at the University of Washington.

1994-99: Associate professor at the University of Miskolc (Hungary).

1993-94: Postdoctoral fellow at the University of Warwick.

1992-93: Lecturer at the University of Miskolc.

Research

Research interests: Fractals, Dynamical Systems, Real Analysis. I have been working on the computation of Hausdorff dimension and Hausdorff measure for attractors of deterministic or random hyperbolic dynamical systems since 1990. Previously I worked on some fields connected to one dimensional dynamics and real analysis.

Some of the invited Talks at Conferences:

1. Probabilistic and dynamical properties of (semi)-group actions. Univ. de Santiago de Chile. (Minu corse of 6 talks, each 90 minutes.) 7-18, January, 2008.
2. Univ. of Warwick, Chaotic Properties of Dynamical Systems. Coventry, 20-24 August 2007.
3. Rényi Institute, Randomness and Hyperbolicity in Dynamical Systems, Budapest, 21-25 August 2006.
4. Banach Center, Fractal Geometry and Dynamics, mini course, Warsaw, 10 - 14 April, 2006.

5. Univ. of Warwick, Symbolic Dynamics and Ergodic Theory, 7-18 July, 2003.
6. Friedrichroda (Germany), Fractal Geometry and Stochastic III, 17-22 March, 2003.
7. Nanjing (China), Fractal Geometry and Applications, 29 Aug.- 2 Sept. 2002.
8. Hong Kong, Fractals and Dynamical Systems, 4-8 December, 2000.
9. Bielefeld, (ZIF) Fractals in Natural Sciences, 13-17 March, 2000.
10. Lisbon, Smooth Ergodic Theory Workshop, 29-31 March, 1999.
11. University of Maryland, Dynamical Systems and Related Topics Workshop 26-29 April, 1997.

Grants from OTKA (National Science Foundation in Hungary):

1. Title: Fractals and Probability Theory. (2003-06) OTKA #T42496.
2. Title: Smooth Dynamical Systems and Dimension Theory. (1996-97) OTKA #T19104.
3. Title: Cantor Sets of Overlapping Construction. (1996-99) OTKA #F19099.
4. Title: Hyperbolic Dynamical Systems (1992-96) OTKA #F4411.

Further grants:

1. Marie Curie Intra European Fellowship. One-year fellowship at the University of Warwick in 2005/06.
2. "NSF-OTKA-MTA" American- Hungarian collaboration project. In each of the years 2002-2004 provided 2 weeks visits to *University of Washington*. Working with B. Solomyak.
3. "Nato Scholarship". 1 month visit to *Univ. of Warwick* 2003. Working with A. Manning.

4. "Scipio Foundation". 1 month visit to *Pennsylvania State University* in 2001. Working with Y. Pesin.
5. NWO-OTKA grant 1998/99 supporting my 5-month visit at *CWI Amsterdam* working with Mike Keane.
6. "Eötvös Fellowship" (from Hungarian Ministry of Education). Three-month fellowship at the *University of Manchester* (1996). Working with Mark Pollicott.
7. "Go West" European grant. Three-month visit to *Univ. of Warwick* 1993. Working with A. Manning and M. Pollicott.

Visiting professorship:

1. Visiting professor at the Institute of Mathematics Polish Academy of Sciences (IMPAN) for 2 months.
2. Visiting associate professor for six months at the University of Washington in 2005.
3. Visiting professor (1 month) at the Univ. of Picardie 2002.
4. Visiting associate professor for 1 year at the University of Washington 1996/97.

Postdoctoral Fellowship

1. Royal Society Postdoctoral Fellowship for one year to Univ. of Warwick (UK) 1993/93.

Professional Service

Organizing conferences:

- 2000** One of the two organizers of Measure Theory with Geometric and Dynamical Aspects conference, Révfülöp (Hungary).
- 1998** The organizer of Dimensions and Dynamics Conference, Miskolc (Hungary).

Editorial work:

I was an editor of the Central European Journal of Mathematics until 2007.

Refereeing:

I have refereed papers submitted to the following journals: , Proc. London Math. Soc, Communications in Math. Phys, Trans. Amer. Math. Soc., Proc. Amer. Math. Soc, Ergodic Th. & Dyn. Syst, Journal of Stat. Phys., Nonlinearity, Pacific J. Math., Real Analysis Exchange, Fundamenta Mathematicae, Linear Algebra and Its Applications, Indagationes, Fractals, Journal of Mathematical Analysis and Applications, Acta Mathematica Hungarica, Monatshefte für Mathematik, Colloquium Mathematicum, Matematica Panonica.

Teaching

Teaching in Hungary:

I teach the course Random fractals and the course Chaotic systems every second year at the Technical University of Budapest for student of mathematics major.

Further, I have taught several calculus and differential equations courses for engineering students at the Technical University of Budapest. Earlier I taught also calculus courses and Real analysis, Functional analysis and Vector analysis courses for engineering students at the University of Miskolc.

Teaching in the UK and in the US:

1. I taught two quarters at the *University of Washington* in 2005. (Differential equations, linear algebra, probability theory courses.)
2. I taught four quarters at the *University of Washington* in 1996-97. These courses involved: linear algebra, vector analysis, real analysis and calculus courses.
3. I taught the course "Geometric integration" at the *University of Warwick* in 1994.

Teaching in high school:

In 1984 I taught mathematics in a high school in Székesfehérvár (Hungary) for a semester.