

Curriculum vitae

Benedek Valkó

Date of Birth:	1976	December 16	
Education:	1995–2000	Eötvös Loránd University of Budapest, Hungary	
	2000	M.Sc. in Mathematics	
	2000–2004	Ph.D. student in Mathematics Technical University Budapest, Hungary	
	2004	Ph.D. in Mathematics supervisor: Prof. Bálint Tóth thesis: Hydrodynamic behaviour of hyperbolic two-component systems	
Positions:	2003–	Junior Researcher, Rényi Inst. of Mathematics, Hungarian Academy of Sciences	
	2004–	Research Assistant, Technical University Budapest	
Research interests:		stochastics in space and time, interacting particle systems, hydrodynamic limits	
Conferences:	1999	Budapest	Paul Erdős and his Mathematics
	2000	Debrecen	Colloquium on Number Theory in honor of the 60th birthday of Professors Kálmán Győri and András Sárközy (conf. talk)
	2001	Eurandom, Eindhoven	Long Range Stochastic Dynamics
	2002	Eurandom, Eindhoven	Discrete Probability
	2003	IHP, Paris	Random Growth Models (conf. talk)
	2003	Budapest	Probability in Space and Time (conf. talk)
	2003	Ovonnaz	13th European Young Statisticians Meeting (conf. talk)
	2004	IMPA, Rio de Janeiro	Brazilian Workshop on Mathematical Physics (conf. talk)
	2004	Oberwolfach	Large Scale Stochastic Dynamics (conf. talk)

Seminar talks:	2002	St. Flour	International Probability School
	2003	Jülich	Forschungszentrum
	2003	Prague	Summer School in Statistical Mechanics
	2003	Munich	Technical University
	2003	Toronto	University of Toronto, Probability Seminar
Honours:	1997, 1999	First Prize, National Scientific Student Conference, Hungary	
	2000	Kató Rényi Prize awarded by the Bolyai János Mathematical Society of Hungary	
	2001	Pro Scientia Prize awarded by the Council of National Scientific Students' Associations	
	2004	Géza Grünwald Prize awarded by the Bolyai János Mathematical Society of Hungary	
Conferences organized:	Large Scale Behaviour of Interacting Particle Systems: Fluctuations and Hydrodynamics to be held in 2005 at Budapest, Hungary (member of the organizing committee)		
Teaching experience:	Number Theory, Probability, Calculus, Problem Solving Seminar		
Personal Data:	Address:	Rényi Institute of Mathematics, Hungarian Academy of Sciences H-1364 Budapest, P. O. Box 127, Hungary	
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List of Publications

1. G. Dombi, B. Valkó: On a problem of Erdős. *Acta Mathematica Hungarica*, **77** (1997), 47–56.
2. B. Valkó: On irregularities of sums of integers, *Acta Arithmetica*. **92** (2000), 367–381.
3. S. Csörgő, B. Valkó, W.B. Wu: Random multisets and bootstrap means. *Acta Sci. Math. (Szeged)*, **67** (2001), 843–875.
4. B. Valkó: Discrepancy of arithmetic progressions in higher dimensions, *Journal of Number Theory*, **92** (2002), 117–130.
5. B. Tóth, B. Valkó: Between equilibrium fluctuations and Eulerian scaling: Perturbation of equilibrium for a class of deposition models. *Journal of Stat. Phys.*, **109** (2002), 177–205
6. B. Tóth, B. Valkó: Onsager Relations and Eulerian Hydrodynamic Limit for Systems with Several Conservation Laws. *Journal of Stat. Phys.*, **112** (2003), 497–521
7. B. Tóth, B. Valkó: Perturbation of singular equilibria of hyperbolic two-component systems: a universal hydrodynamic limit. To appear in *Comm. Math. Phys.* (accepted in Oct. 2004)
<http://arxiv.org/math.PR/0312256>
8. B. Valkó: Hydrodynamic limit for perturbation of a hyperbolic equilibrium point in two-component systems. Submitted to *Annales de l'Inst. Henri Poincaré — Probab. et Stat.* (under revision)
<http://arxiv.org/math.PR/0402017>