

CURRICULUM VITAE

Hendrik Don

Personal information

Date of birth April 8, 1984
Place of birth Rhenen, The Netherlands
Office address Radboud University Nijmegen
 Faculty FNWI, Institute for Mathematics,
 Astrophysics and Particle Physics
 Heyendaalseweg 135, 6525 AJ Nijmegen,
 The Netherlands
 Tel.: 024-3652996
E-mail h.don@math.ru.nl
Website <http://www.math.ru.nl/~henkdon/>

Education

January 2009 M.Sc. Delft University of Technology (cum laude)
March 2013 Ph.D. Delft University of Technology, advisor Prof. dr. F.M. Dekking
 Title: *Reflecting walls and dissipating tiles*

Employment

Mar. 2013 - Aug. 2013 Lecturer, Delft University of Technology
Sep. 2013 - Jan. 2017 Postdoctoral Researcher, Radboud University Nijmegen
Feb. 2017 - Jul. 2017 Assistant Professor, Vrije Universiteit Amsterdam
Aug. 2017 - present Assistant Professor, Radboud University Nijmegen

Research

Research interests

Random fractals, random graphs, percolation theory, branching processes, probabilistic combinatorics, epidemic models, synchronizing automata.

Publications

1. Don, H. – *On the distribution of the distances of multiples of an irrational number to the nearest integer*, Acta Arithmetica 139 (2009), 253–264.
2. Dekking, F.M. and Don, H. – *Correlated fractal percolation and the Palis conjecture*, Journal of Statistical Physics. 139 (2010), no. 2, 307–325.
3. Don, H. – *Polygons in billiard orbits*, Journal of Number Theory 132 (2012), no. 6, 1151–1163.
4. Don, H. – *New methods to bound the critical probability in fractal percolation*, Random Structures and Algorithms 47 (2015), 710–730.
5. Don, H. – *The Černý conjecture and 1-contracting automata*, The Electronic Journal of Combinatorics 23 (2016), Issue 3, P3.12.
6. Cator, E.A. and Don, H. – *Constructing conditioned multi-type Galton-Watson trees*, ESAIM: Probability and Statistics 20 (2016), 400–416.
7. Don, H. and Zantema H. – *Finding DFAs with maximal shortest synchronizing word length*, In: Drewes F., Martín-Vide C., Truthe B. (eds), Language and Automata Theory and Applications. LATA 2017. Lecture Notes in Computer Science, vol 10168. Springer, Cham (2017).
8. Cator, E.A. and Don, H. – *Self-averaging sequences which fail to converge*, Electron. Commun. Probab. Volume 22 (2017), paper no. 16, 12 pp.
9. De Bondt, M; Don, H. and Zantema, H. – *DFAs and PFAs with long shortest synchronizing word length*, to appear in proceedings of Developments in Language Theory (2017).
10. Don, H. and Zantema, H. – *Synchronizing non-deterministic finite automata*, (2017), arXiv: 1703.07618, to appear in Journal of Automata, Languages and Combinatorics.

Preprints

1. Cator, E.A.; Don, H. and Van Mieghem, P. – *Non-negative matrix factorization for heterogeneous SIS epidemics in large networks*, (2016), arXiv: 1609.07636.
2. Don, H.; Zantema, H. and De Bondt, M; – *Slowly synchronizing automata with fixed alphabet size*, (2017), arXiv: 1703.07995.

Talks

2010	Lorentz workshop Numeration, Leiden
2011	Meeting of AiOs in Stochastics, Hilversum
2011	Intercity Seminar, Delft

2012	Stochastics Seminar, Delft
2012	Stochastics Seminar, Utrecht
2014	Fractal Geometry and Stochastics V, Tabarz (Germany)
2016	Brouwer Seminar, Nijmegen
2016	Combinatorics, Automata and Number Theory, Marseille (France)
2017	STAR Workshop on Random Graphs, Utrecht
2017	Probability Seminar, Leiden
2017	Language and Automata Theory and Applications, Umeå (Sweden)
2017	Aperiodic Patterns in Crystals, Numbers and Symbols, Leiden
2017	Colloquium, VU Amsterdam
2018	Dutch Mathematical Congress, Veldhoven

Posters

2009	Meeting of AiOs in Stochastics, Hilversum
2010	Stochastics Meeting, Lunteren

Teaching

Courses taught, Delft University of Technology

2009-2011	Calculus for Civil Engineering
2009-2012	Stochastic Processes (teaching assistant)
2009-2013	Mathematical Modelling and Simulation
2010	Calculus for Aerospace Engineering
2011	Linear Algebra for Mechanical and Maritime Engineering
2013	Linear Algebra for Civil Engineering
2013	Statistics for Architecture
2013	Probability and Statistics for Technology, Policy and Management
2013	Probability and Statistics for Electrical Engineering
2013	Engineering Analysis for Industrial Design
2013	Modelling Practicum for Mathematics

Courses taught, Radboud University Nijmegen

2013-2017	Mathematics for Artificial Intelligence
2014-2016	Statistics for Biologists
2017	Introduction Statistics
2018	Random Graphs

Courses taught, Vrije Universiteit Amsterdam

2017	Probability and Statistics (at the Amsterdam University College)
2017	Experimental Design and Data Analysis (teaching assistant)
2017	Mathematical Modelling

Students

2012	Arthur Bik	Honorary project
2016	Veronique Rademaekers	BSc project

Other teaching activities

2016	Development of lecture notes Mathematics for Artificial Intelligence
------	--