

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Réka Szabó
Date of Birth: 27 - March - 1990
Place of Birth: Budapest, Hungary

CONTACT INFORMATION

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CURRENT OCCUPATION

Post-doctoral fellow: CEREMADE, CNRS, Université Paris-Dauphine, PSL University, France
(since September, 2019)
Advisor: Cristina Toninelli

EDUCATION

2015-2019 Ph.D. Mathematics, University of Groningen, the Netherlands
Advisor: Daniel Valesin
Thesis title: Inhomogeneous Contact Process and Percolation
2012-2014 M.Sc. Computer Science, EIT ICT Labs Master School
2012-2013 University of Trento, Italy
2013-2014 Eötvös Lóránd University Budapest, Hungary
2011-2015 M.Sc. Applied Mathematics, Budapest University of Technology and Economics,
Hungary
Advisor: Bálint Vető
2008-2011 B.Sc. Mathematics, Budapest University of Technology and Economics, Hungary

PUBLICATIONS AND PREPRINTS

- Ages of Records in Random Walks. R. Szabó, B. Vető. *Journal of Statistical Physics* 165(6) (2016), 1086-1101.
- From survival to extinction of the contact process by the removal of a single edge. R. Szabó, D. Valesin. *Electronic Communications of Probability* 21 (2016).
- Inhomogeneous percolation on ladder graphs. R. Szabó, D. Valesin. *Journal of Theoretical Probability* 33 (2020), 992–1010.
- Multi-range percolation on oriented trees: critical curve and limit behavior. B. N. B. de Lima, R. Szabó, D. Valesin. *Random Structures and Algorithms* (in press), arXiv:2103.05316.

- Generalised oriented site percolation. I. Hartarsky, R. Szabó. *Markov Processes and Related Fields* 28 (2022), 275–302.
- Peierls bounds from Toom contours. J. M. Swart, R. Szabó, C. Toninelli. arXiv:2202.10999.
- Subcritical bootstrap percolation via Toom contours. I. Hartarsky, R. Szabó. Submitted for publication, arXiv:2203.16366.

CONFERENCES ATTENDED

- Networks Training Week on Computational Geometry and Random Graphs. Utrecht, the Netherlands, 2015.
- 12th Workshop on Algorithms and Models for Web graphs (WAW). Eindhoven, the Netherlands, 2015.
- The 25th meeting of PhD students in Stochastics. Hilversum, the Netherlands, 2017.
- PIMS-CRM Summer School in Probability. Vancouver, Canada, 2017.
- BCAM summer school: Probabilistic approaches in mathematical physics. Bilbao, Spain, 2017.
- YEP XIV. on Networks: Probability, Combinatorics and Algorithms. Eindhoven, the Netherlands, 2017.
- Dynamics on Random Graphs and Random Maps. Marseille, France, 2017.
- Stochastics Meeting. Lunteren, the Netherlands, 2017.
- YEP XV. on Information Diffusion on Random Networks. Eindhoven, the Netherlands, 2019.
- Workshop on Statistical Mechanics and PCA. Créteil, France, 2019.
- STAR Workshop on Random Graphs. Groningen, the Netherlands 2019.
- Workshop on Large Scale Stochastic Dynamics. Oberwolfach, Germany, 2019.
- Rencontres de Probabilités. Rouen, France 2019.
- YEP XVII. on Interacting Particle Systems. Eindhoven, the Netherlands, 2021.
- Rencontres de Probabilités. Rouen, France, 2021.
- CEREMADE Winter School. France, 2022.
- Workshop on Interacting Particle Systems and Hydrodynamic Limits. Montréal, Canada, 2022.
- Workshop on Markov Chains with Kinetic Constraints and Applications. Banff, Canada, 2022. (upcoming)

RESEARCH VISITS

- University of Groningen, the Netherlands, Daniel Valesin, 1 week 2020.
- IMPA, Rio de Janeiro, Brazil, Robert Morris, 2 weeks 2022.

INVITED TALKS

- Stochastic Seminar. Budapest University of Technology and Economics, Hungary, 2015.
- Stochastic Seminar. University of Utrecht, the Netherlands, 2017.
- YEP XIV. on Networks: Probability, Combinatorics and Algorithms. Eindhoven, the Netherlands, 2017.
- Mark Kac Seminar. Utrecht, the Netherlands 2018.
- Most Informal Probability Seminar. Leiden, the Netherlands, 2019.
- Workshop on Statistical Mechanics and PCA. Université Paris Est, Créteil, France, 2019.
- STAR Workshop on Random Graphs. Groningen, the Netherlands 2019.
- Séminaire Analyse-Probabilités. Université Paris-Dauphine, Paris, France, 2019.
- Probability Seminar. ENS Lyon, France, 2020.
- Probability Seminar. Strasbourg University, France, 2021.
- Percolation Today online seminar. Joint with Ivailo Hartarsky, 2021.
- Probability Webinar. UFRJ, Brazil, 2021.
- YEP XVII. on Interacting Particle Systems. Eindhoven, the Netherlands, 2021.
- Rencontres de Probabilités. Rouen, France, 2021.
- Mathematical Physics and Probability Seminar. UC Davis, California, US, 2022.

CONTRIBUTED TALKS

- PIMS-CRM Summer School in Probability. Vancouver, Canada, 2017.
- YEP XV. on Information Diffusion on Random Networks. Eindhoven, the Netherlands, 2019.
- Workshop on Large Scale Stochastic Dynamics. Oberwolfach, Germany, 2019.
- CEREMADE Winter School. France, 2022.

POSTERS

- Stochastics Meeting. Lunteren, the Netherlands, 2017.
- Bernoulli Opening Symposium. University of Groningen, the Netherlands, 2018.

TEACHING EXPERIENCE

Teaching assistant for Probability Theory (2 semesters) and Metric Spaces (2 semesters) at University of Groningen.

ADDITIONAL INFORMATION

Referee work for Electronic Communications in Probability and Electronic Journal of Probability.

LANGUAGES

Hungarian (native), English (fluent), Italian and Dutch (basic).