

Ivana Valentić

Personal information

Date of birth: 17 June 1991

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Education

2015 – 2020 Ph.D. in Mathematics at University of Zagreb, Supervisor: Dr. Nikola Sandrić, Thesis: Periodic homogenization for Lévy-type processes

2013 – 2015 Graduate University Programme in Theoretical Mathematics at University of Zagreb

2010 – 2013 Undergraduate University Programme in Mathematics at University of Zagreb

Professional Experience

April 2016 – today Teaching Assistant at Department of Mathematics, Faculty of Science, University of Zagreb

June 2021 – July 2022 Visiting Researcher at Department of Statistics, University of Warwick, sponsored by Professor Aleksandar Mijatović

March 2016 – June 2016 High School Teacher, XV Gymnasium, Zagreb, Croatia

September 2015 – February 2016 Teaching Assistant at Department of Mathematics, Faculty of Chemical Engineering and Technology, University of Zagreb

October 2015 – January 2016 Teaching Assistant at Department of Mathematics, Faculty of Transport and Traffic Sciences, University of Zagreb

July 2014 – September 2014 Quantitative Trader, Summer Internship, Jane Street, London, UK

Publications

- Ivana Valentić, *Skew-product decomposition of Brownian motion on ellipsoid*, to appear in Stat. and Prob. Letters. 8 pp, 2023 <https://arxiv.org/abs/2203.11638>
- Nikola Sandrić, Ivana Valentić, *A CLT for degenerate diffusions with periodic coefficients, and application to homogenisation of linear PDEs*, J. Differ. Equ. 282:233-271, 2021
- Nikola Sandrić, Ivana Valentić, Jian Wang, *Periodic Homogenization of a Lévy-Type Process with Small Jumps*, J. Evol. Equ. 21(1):771-803, 2021
- **(popular, in Croatian)** Ivana Valentić, *Geometrijski pristup zadacima s apsolutnom vrijednošću*, MiŠ 93. 2. 99 – 103, 2017-2018
- **(popular, in Croatian)** Ivana Antoliš (Valentić), Bojan Basrak, *Koliko su veliki veliki djelitelji?*, Matematičko-fizički list. 4. 264, 2015-2016

Funded projects

1 May 2018 – 30 April 2023 *Stochastic stability and potential theory of Markov processes*, founded by Croatian Science Foundation, project leader: Dr Nikola Sandrić

1 January 2019 – 31 December 2020 *Random Time-Change of Jump Processes*, project leaders: Dr Nikola Sandrić and Dr René Schilling

Participation with presentation at conferences/summer schools

18 – 22 July 2022 10th International Conference on Lévy Processes, University of Mannheim, *Geometric approach to construction of Wright-Fisher diffusions*, Poster Presentation

16 – 17 July 2022 Summer School of the 10th International Conference on Lévy Processes, University of Mannheim, *Skew-product decomposition of Brownian motion on ellipsoid*, Short Talk

6 – 10 September 2021 22nd European Young Statisticians Meeting, Athens, *A CLT for degenerate diffusions with periodic coefficients, and application to homogenisation of linear PDEs*, Contribution talk

21 – 25 June 2021 8th European Congress of Mathematics, University of Primorska, *A CLT for degenerate diffusions with periodic coefficients, and application to homogenisation of linear PDEs*, Contribution talk

1 – 4 June 2021 Modern Stochastics: Theory and Applications V, Taras Shevchenko National University of Kyiv, *A CLT for degenerate diffusions with periodic coefficients, and application to homogenisation of linear PDEs*, Poster Presentation

24 March 2021 LMS Women in Mathematics Day 2021, University of Plymouth, *Periodic Homogenization of a Lévy-Type Process with Small Jumps*, Poster Presentation

28 February 2020 PMF Doctoral Student Symposium, University of Zagreb, *Periodic homogenization for Lévy-type processes*, Poster Presentation

15 – 19 July 2019 9th International Conference on Lévy Processes, Department of Statistics and Actuarial-Financial Mathematics of the University of the Aegean, *Central limit theorem for periodic singular diffusions*, Poster Presentation

8 – 12 July 2019 Satellite Summer School of the 9th International Conference on Lévy Processes (Lévy 2019), National Technical University of Athens, *Central limit theorem for periodic singular diffusions*, Short Talk

29 April – 10 May 2019 Technische Universität Dresden, Dresden, Germany, *Central limit theorem for periodic singular diffusions*, Short Talk

Teaching (in Croatian)

2022 – 2023 Markovljevi lanci, Računarski praktikum 1

2021 – 2022 Mjera i integral, Statistika

2019 – 2020 Vjerojatnost, Računarski praktikum 1

2018 – 2019 Mjera i integral, Računarski praktikum 2

2017 – 2018 Teorija vjerojatnosti 1, Metodika nastave matematike 3, Elementarna geometrija

2016 – 2017 Matematička analiza 1 (prof fiz, inf), Matematička analiza 2 (prof fiz, inf), Metodika nastave matematike 1, Metodika nastave matematike 2, Elementarna geometrija

2015 – 2016 Matematika 1 (FKIT), Matematika 1 (FPZ), Teorija brojeva, Metodika nastave matematike 2

Further information

2022 – today European Women in Mathematics country coordinator for Croatia

2022 – today Running the informal Doctoral probability seminar, University of Zagreb

July 2021 – July 2022 Grace Chisholm Young Fellow

2015 – today Member of Seminar for probability theory, University of Zagreb

2015 Winner of Rector's Award for paper: *Applications of random dyadic systems to decompositions of functions and operators*, coauthor: Mario Stipčić, advisor: Dr Vjekoslav Kovač

2012 – 2015 Winner of Scholarship of City of Zagreb

2008 – 2015 Member of association Young gifted mathematicians "Marin Getaldić", whose main goal is the promotion of mathematics and mathematical competitions among elementary and high school students in Croatia

2012 Winner of third prize at International Mathematics Competition for University Students

2009 Winner of bronze medal at Middle European Mathematical Olympiad