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Academic degrees

2022. Ph.D. in Mathematics, University of Kansas. Advisor: David Nualart.

2018. M.A. in Mathematics, University of Kansas.

2016. M.S. in Mathematics, Boğaziçi University. Advisor: Burak Gürel.

2014. B.S. in Mathematics, honors, Boğaziçi University.

Academic employment

2022 - Visiting Assistant Professor, University of Rochester.

2016 - 2022. Graduate Research and Teaching Assistant (GRA & GTA), University of Kansas.

2014 - 2016. Teaching Assistant, Boğaziçi University.

Research interests

Stochastic Analysis, Stochastic Partial Differential Equations, Malliavin Calculus

Publications

4. S. Kuzgun and D. Nualart, Convergence of densities of spatial averages of the parabolic Anderson model driven by colored noise, *submitted*.
3. S. Kuzgun and D. Nualart, Convergence of densities for the stochastic heat equation, *Stochastic Processes and Applications*, **37** (2022) pp. 68–100.
2. S. Kuzgun and D. Nualart, Feynman-Kac formula for iterated derivatives of the parabolic Anderson model, *Potential Analysis*, (2022), to appear.
1. S. Kuzgun and D. Nualart, Rate of Convergence in the Breuer-Major Theorem via Chaos Expansions, *Stochastic Analysis and Applications*, **37** (2019), no 6, pp. 1057–1091.

Honors, awards and fellowships

- 2021. Charles J. and Mary Pat Himmelberg Graduate Student Award, University of Kansas.
- 2020 & 21. Graduate Student Summer Research Scholarship, University of Kansas
- 2018 & 19. Joan Kirkham Summer Scholarship, University of Kansas
- 2016. Gülnihal Yücel Teaching Award, Boğaziçi University
- 2014. First Ranking Student in Mathematics, Boğaziçi University
- 2014. Cahit Arf Fellowship, Turkish Mathematical Society

Research talks and poster presentations

- 04/2022. Speaker at Kansas Math Graduate Student Conference, Kansas State University.
- 04/2022. Poster presenter at the AWM session of Joint Mathematics Meetings, AWM Poster Session.
- 03/2022. Poster presenter at Seminar on Stochastic Processes, Lehigh University/online.
- 12/2021. Speaker at the Applied Analysis Seminar, Max Planck Institute for Mathematics in the Sciences, Leipzig.
- 12/2021. Speaker at the short talks session of Frontier Probability Days, University of Nevada.
- 10/2021. Speaker at the contributed talks session of Workshop: Junior Female Researchers in Probability, Berlin/online.
- 08/2021. Speaker at NSF/CBMS Conference: Gaussian Random Fields, Fractals, SPDEs, and Extremes, University of Alabama in Huntsville.
- 06/2021. Speaker at the PhD Session of Summer School: Young Researchers between Geometry and Stochastic Analysis, online.
- 06/2021. Speaker at the Math Grad Seminars, Boğaziçi University.
- 08/2020. Pre-recorded talk at Bernoulli-IMS One World Symposium, online.
- 03/2020. Poster presenter at Seminar on Stochastic Processes, Michigan State University.
- 11/2019. Speaker at Graduate Student Probability Seminar, University of Kansas.
- 10/2019. Speaker at Probability&Statistics Seminar, University of Kansas.

Other workshop/school participation

- 10/2022. Probabilistic Methods in Geometry and Analysis, The Institute for Computational and Experimental Research in Mathematics (ICERM).
- 06/2022. PIMS- IFDS- NSF Summer School on Optimal Transport, University of Washington, Seattle.
- 05/2022. PDE and Randomness, Centre de recherches mathématiques (CRM)/online.

03/2022. Interacting Particle Systems and Hydrodynamic Limits, CRM/online.
09/2021. Bath Mathematical Symposium on PDE and Randomness, online.
06/2021. SPDE & Friends, online.
05/2021. Summer Program in Partial Differential Equations, University of Texas at Austin/online.
07/2020. Summer School on PDE and Randomness, online.
10/2019. Hamiltonian Systems I, Mathematical Sciences Research Institute.
07/2018. Harmonic Analysis Summer School, Park City Mathematics Institute.
06/2016. 3rd Ankara-Istanbul Workshop on Stochastic Processes, Middle East Technical University.

Teaching experience

University of Rochester

Instructor: Calculus II (Fall 2022), Introduction to Probability (Fall 2022)

University of Kansas

Coordinator: Precalculus (Spring 2020)

Instructor: Precalculus (Fall 2017), Business Calculus (Fall 2016, Spring 2017 & 2019), Calculus II (Summer 2017)

Assistant: Calculus II for Honors (Spring 2018 & 2021), Calculus III (Fall 2018 & 2019)

Grader: Probability (Graduate, Fall 2021), Statistics (Graduate, Spring 2020), Time Series (Spring 2019)

Boğaziçi University

Instructor: Differential Equations (Synchronous online, Summer 2020), Matrix Theory (Summer 2019)

Assistant: Calculus (Fall 2015), Vector Calculus (Spring 2015), Calculus I for Mathematics Majors (Fall 2015), Calculus II for Mathematics Majors (Spring 2016), Matrix Theory (Summer 2015), Differential Equations (Fall 2014)

Turkish Mathematical Society summer school, Feza Gürsoy Institute

Assistant: Real Analysis (Summer 2016)

Service and outreach

- 2021 - 2022. Co-founder, co-organizer and mentor, Directed Reading Program Türkiye.
- 2020 - 2022. Co-founder, graduate mentor, University of Kansas Student Chapter of the American Mathematical Society mentoring program.
- 2019 - 2022. Volunteer, University of Kansas April Math Awareness Month activities.
- 2018 - 2022. Co-founder, co-organizer, University of Kansas Graduate Student Probability Seminar.
- 2020 - 2021. President, University of Kansas Student Chapter of the Association for Women in Mathematics.
- 2019 - 2020. Vice-president, University of Kansas Student Chapter of the American Mathematical Society.
- 2018 - 2019. Secretary, University of Kansas Student Chapter of the American Mathematical Society.
2019. Leader, University of Kansas Student Chapter of the American Mathematical Society probability qualifying exam study group.
2018. Leader, University of Kansas Student Chapter of the American Mathematical Society analysis qualifying exam study group.

Last updated: July 23, 2022