

PAVLOS ZOUBOULOGLOU

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EDUCATION

Doctoral student , UNC Chapel Hill, Statistics and Operations Research	August 2019 - May 2024
Advisor: Amarjit Budhiraja	
B.Sc. in Mathematics , University of Athens (NKUA), GPA: 8.51/10	September 2014 - June 2019
Study Abroad in Mathematics , TU Berlin GPA: 1.43/1.00	April 2018 - August 2018
Study Abroad in Computational Mathematics , ERAU GPA: 4.00/4.00	August 2017 - December 2017
Minor in Political Science , Deree GPA: 3.78/4.00	September 2015 - December 2017

PROFESSIONAL EXPERIENCE

Postdoctoral fellow (Cluster of Excellence) , University of Münster	August 2024 - Present
Institute for Mathematical Stochastics, Department of Applied Mathematics	
Mentor: Chiranjib Mukherjee	

PUBLICATIONS AND PREPRINTS

1. **“Scaling limits for sample autocovariance operators of Hilbert space-valued linear processes”**, with Marie-Christine Düker. *Preprint*, 2025.
2. **“Breuer-Major Theorems for Hilbert Space-Valued Random Variables”**, with Marie-Christine Düker. *Preprint*, 2024.
3. **“Large Deviations for Empirical Measures of Self-Interacting Markov Chains”**, with Amarjit Budhiraja and Adam Waterbury. *Stochastic Processes and Their Applications*, 186 (2025), 104640.
4. **“Cyclical Long Memory: Decoupling, Modulation, and Modeling”**, with Stephanos Kechagias and Vladas Pipiras. *Stochastic Processes and Their Applications*, 175 (2024), 104403.
5. **“Large Deviations for Small Noise Diffusions Over Long Time”**, with Amarjit Budhiraja. *Transactions of the American Mathematical Society, Series B* 11 (2024), 1-63.
6. **“Scaled Torus Principal Component Analysis”**, with Eduardo García Portugués and J. S. Marron. *Journal of Computational and Graphical Statistics*, 32:3 (2023), 1024-1035.
7. **“Cyclical Long Memory in Ship Motions at Non-Zero Speed”**, with Vladas Pipiras and Themistoklis Sapsis. *Proceedings of the 18th International Ship Stability Workshop (2022)*, 297-306.

AWARDS AND SCHOLARSHIPS

1. **Young Mathematicians Conference Network Fund**, Department of Mathematics Münster (in support of organizing the event “Summer School in Interacting Random Systems”) 20000 (in €)
2. **Internationalization Fund**, University of Münster (in support of organizing the event “Summer School in Interacting Random Systems”) 3200 (in €)
3. **Student Success Ambassador Award**, Graduate School (UNC)
4. **M. R. Leadbetter Graduate Student Excellence Award**, Dept. of Statistics and OR
5. **2023-24 Dissertation Completion Fellowship**, Graduate School, UNC 22000 (in \$)
6. **2022 Summer Research Fellowship**, Graduate School, UNC 5000 (in \$)
7. **Erasmus Study Abroad Scholarship**, Erasmus+ through NKUA, 2018 2250 (in €)
8. **Full Study Abroad Scholarship**, Stavros Niarchos Foundation and Deree, 2017 7950 (in €)

TEACHING EXPERIENCE

University of Münster

- Stochastic Analysis (2 times): Winter Semester 2025–26, Winter Semester 2024–25. Role: Teaching assistant, tutorial instructor, grader.
- Probability Theory I (1 time): Summer Semester 2025. Role: Tutorial instructor, grader.

University of North Carolina at Chapel Hill

- Introduction to Data Science (6 times): Fall 2021, Spring 2021, Fall 2020, Summer 2020, Spring 2020, Fall 2019. Role: Teaching assistang, lab instructor, grader.
- Comprehensive Written Exams Tutorials for Probability Theory and Statistical Theory (2 times): Summer 2023 and Summer 2021. Role: Instructor.
- Introduction to Data Models and Inference (2 times): Summer 2023, Summer 2021). Role: Teaching assistant, grader.
- Methods in Data Analysis (1 time): Summer 2020. Role: Teaching assistant.

OTHER SKILLS

Technical	LaTeX, R, MATLAB
Languages	Greek (Native), English (C2), German (A2-B1), Spanish (A2)

PROFESSIONAL ACTIVITIES

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| • Early Career Committee of the Cluster of Excellence, University of Münster | May 2025 - Present |
| • Main organizer of a week-long event in Münster:
“Summer School in Interacting Random Systems” | June 2025 |
| • STEM Pride of the Triangle Board Member, UNC | August 2023 - May 2024 |
| • STOR-Biostatistics student liaison, UNC | June 2023 - May 2024 |
| • Graduate Student Seminar Co-Organizer, UNC | August 2021 - May 2024 |
| • Graduate and Professional Student Federation Senator, UNC | September 2021 - August 2022 |

REFEREEING

Bernoulli; Stochastic Analysis and Applications; Involve; Potential Analysis; Journal of the Royal Statistical Society: Series C (Applied Statistics); Proceedings of the Edinburgh Mathematical Society; ESAIM: Probability and Statistics.

INVITED TALKS

15th AIMS Conference NUA	Athens (GR), July 2026 (planned)
Recent Advances in Time Series	Larnaca (CY), June 2026 (planned)
19th Panhellenic Conference in Analysis NTUA	Athens (GR), December 2025
University of Münster, Stochastic Oberseminar	Münster (DE), November 2025
Friedrich-Alexander University	Erlangen (DE), June 2024
Università di Pisa	Pisa (IT), June 2023
One World Dynamics Seminar	Zoom, March 2023

TRAININGS AND CONFERENCES WITH CONTRIBUTED TALKS AND POSTERS

53rd Probability Summer School	Université Clermont Auvergne	Saint-Flour (FR), July 2025
World Congress in Probability and Statistics	Bernoulli-IMS	Bochum (DE), August 2024
Summer School: PDEs and Randomness	University of Maryland	College Park (MD), August 2024
Seminar on Stochastic Processes	Rice University	Houston (TX), March 2024
Stochastic Analysis, Random Fields, and Applications,	Michigan State University	East Lansing (MI), August 2023
Frontiers in Stochastic Analysis	University of Illinois Chicago	Chicago (IL), August 2023
51st Probability Summer School	Université Clermont Auvergne	Saint-Flour (FR), July 2023
Seminar on Stochastic Processes	University of Arizona	Tucson (AZ), March 2023
Graduate Students Conference in Probability	UW-Madison	Madison (WI), September 2022
Brazilian School of Probability		Campinas (BR), August 2022

TRAININGS AND CONFERENCES WITHOUT CONTRIBUTION

20 Years of the Fourth Moment Theorem	University of Luxembourg	Luxembourg (LU), December 2025
Stochastic Analysis in Mathematics and Natural Sciences	FORTH Institute	Crete (GR), June 2025
Spring School in Extrema of Logarithmically Correlated Random Fields	Darmstadt Universität	Darmstadt (DE), March 2025
Northeast Probability Conference	New York University	New York City (NY), November 2023
Southeastern Probability Conference I	Duke University	Durham (NC), May 2023
Summer School in Lévy Processes	NTUA	Athens (GR), July 2019