

# PAVLOS ZOUBOULOGLOU

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## EDUCATION

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

## PROFESSIONAL EXPERIENCE

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<b>Postdoctoral fellow (Cluster of Excellence)</b> , University of Münster Institute for Mathematical Stochastics, Department of Applied Mathematics Mentor: Chiranjib Mukherjee	August 2024 - Present
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## PUBLICATIONS AND PREPRINTS

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

\* indicates papers where author order reflects contribution; absence of \* indicates alphabetical author order.

## AWARDS AND SCHOLARSHIPS

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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. <b>Erasmus Study Abroad Scholarship</b> , Erasmus+ through NKUA, 2018	2250 (in €)
8. <b>Full Study Abroad Scholarship</b> , Stavros Niarchos Foundation and Deree, 2017	7950 (in €)
9. <b>Scholarship for Minor Certificate</b> , Stavros Niarchos Foundation, 2015	1400 (in €)

## TEACHING EXPERIENCE

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### 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 assistant, 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

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<b>Technical</b>	LaTeX, R, MATLAB
<b>Languages</b>	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:<br>“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

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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

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<b>15th AIMS Conference</b> NUA	Athens (GR), July 2026 (planned)
<b>Recent Advances in Time Series</b>	Larnaca (CY), June 2026 (planned)
<b>19th Panhellenic Conference in Analysis</b> NTUA	Athens (GR), December 2025
<b>University of Münster, Stochastic Oberseminar</b>	Münster (DE), November 2025
<b>Friedrich-Alexander University</b>	Erlangen (DE), June 2024

<b>Università di Pisa</b>	Pisa (IT), June 2023
<b>One World Dynamics Seminar</b>	Zoom, March 2023
<b>UNC STOR Graduate Student Seminar</b>	Chapel Hill (NC), October 2021 and September 2022

## **TRAININGS AND CONFERENCES WITH CONTRIBUTED TALKS AND POSTERS**

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

## **TRAININGS AND CONFERENCES WITHOUT CONTRIBUTION**

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