STURMIUS TUSCHMANN

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EDUCATION

PhD **Imperial College London**, UK *10/23 – present*
Ph.D. in Mathematics of Random Systems (in progress)
Supervisors: Dr Eyal Neuman, Prof. Johannes Muhle-Karbe

MSc **University of Münster**, Germany *10/21 – 07/23*
M.Sc. in Mathematics
Supervisor: Prof. Michael Weiss

BSc **University of Münster**, Germany *10/18 – 09/21*
B.Sc. in Mathematics with Distinction
Supervisor: Prof. Michael Joachim

ACADEMIC VISITS

- **University of Oxford**, UK *10/23 – 09/24*
  Visiting Doctoral Student at the Mathematical Institute

- **Princeton University**, US *03/23 – 05/23*
  Visiting Student Research Collaborator at the Department of Mathematics

- **National University of Singapore**, Singapore *09/21 – 11/21*
  Research Intern at the Department of Mathematics

PREPRINTS

- Hey, N., Neuman E. and Tuschmann S., Nonparametric Estimation of Self- and Cross-Impact, *arXiv:2510.06879,* (2025) (submitted)
- Neuman E. and Tuschmann S., Stochastic Graphon Games with Interventions, *arXiv:2507.00561,* (2025) (submitted to *Mathematics of Operations Research*)
- Abi Jaber, E., Bondi, A., De Carvalho, N., Neuman, E. and Tuschmann, S., Fredholm Approach to Nonlinear Propagator Models, *arXiv: 2503.04323* (2025) (revised for *Finance and Stochastics*)
- Neuman E. and Tuschmann S., Stochastic Graphon Games with Memory, *arXiv:2411.05896,* (2024) (submitted to *Mathematics of Operations Research*)
- Abi Jaber E., Neuman E. and Tuschmann S., Optimal Portfolio Choice with Cross-Impact Propagators, *arXiv:2403.10273*, (2024) (revised for *Mathematical Finance*)

JOURNAL PUBLICATIONS

- Neuman E. and Tuschmann S., The Mercer-Young theorem for matrix-valued kernels on separable metric spaces, *Positivity 29, 35 (2025).*

AWARDS / FUNDING

• Centre for Doctoral Training Studentship by the EPSRC	*10/23 – present*
• PhD Travel Grant by G-Research	*09/25*
• Student Travel Award by the Society for Industrial and Applied Mathematics (SIAM)	*07/25*
• PhD Travel Grant by G-Research	*07/24*
• PROMOS Scholarship by the German Academic Exchange Service	*03/23 – 05/23*
• Study Abroad Scholarship by the Mathematics Münster Cluster of Excellence	*03/23 – 05/23*
• Visiting Student Research Collaborator Award by Princeton University	*03/23 – 05/23*
• Deutschlandstipendium by the German Federal Government	*10/22 – 09/23*
• PROMOS Scholarship by the German Academic Exchange Service	*09/21 – 11/21*

TALKS

• 20th BiGSEM Doctoral Workshop, Bielefeld University, Germany	*12/25*
• CDT in Mathematics of Random Systems Workshop, University of Oxford, UK	*12/25*
• London–Paris Bachelier Workshop, London School of Economics, UK	*11/25*
• Mathematical and Statistical Finance Seminar, University of California, Los Angeles, US	*11/25*
• Mathematical Finance Seminar, Columbia University, US	*10/25*
• London Mathematical Finance PhD Day, London School of Economics, UK	*10/25*
• Stochastics & Computational Finance Conference, Lisbon Portugal	*09/25*
• SIAM Conference on Financial Mathematics and Engineering (FM25), Miami, US	*07/25*
• 9th Asian Quantitative Finance Conference, Shenzhen, China	*04/25*
• Dolomites Winter School on Optimal Transport, Folgarida, Italy	*01/25*
• London–Oxford–Warwick Mathematical Finance Workshop, University of Oxford, UK	*01/25*
• 19th BiGSEM Doctoral Workshop, Bielefeld University, Germany	*12/24*
• Algo-trading and DeFi Workshop, Polytechnic University of Milan, Italy	*11/24*
• 7th Berlin Workshop on Mathematical Finance for Young Researchers, Berlin, Germany	*09/24*
• 12th World Congress of the Bachelier Finance Society, Rio de Janeiro, Brazil	*07/24*
• ETH–Hong Kong–Imperial Mathematical Finance Workshop, Imperial College London, UK	*06/24*
• CDT Mathematics of Random Systems Spring School, Great Missenden, UK	*04/24*

EXPERIENCE

• **Imperial College London**, UK	
Graduate Teaching Assistant at the Department of Mathematics	*10/24 – present*
• **University of Münster**, Germany	
Senior Teaching Assistant at the Department of Mathematics	*04/22 – 03/23*
Teaching Assistant at the Department of Mathematics	*10/20 – 09/21*

LANGUAGE SKILLS

- **German:** Native Speaker
- **English:** Fluent
- **Spanish**: Intermediate
- **French**: Elementary
- **Chinese**: Elementary