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 Prize by QRT   *11/25*
- 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*
- ORFE Graduate Seminar in Stochastic Analysis, Princeton 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