STURMIUS TUSCHMANN

Phone: +49-15254042585
Email: s.tuschmann23@imperial.ac.uk
Webpage: tuschmann.github.io

903 Weeks Hall
16-18 Prince's Gardens
London SW7 1NE

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

- 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

- London–Paris Bachelier Workshop, London, 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