STURMIUS TUSCHMANN

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903 Weeks Hall, Department of Mathematics

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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

- Abi Jaber, E., Bondi, A., De Carvalho, N., Neuman, E. and Tuschmann, S., Fredholm Approach to Nonlinear Propagator Models, *arXiv: 2503.04323* (2025) (submitted to *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) (under revision for *Mathematical Finance*)
- Tuschmann S., Transversality and framed cobordism, *arXiv:2208.10579*, (2022)

JOURNAL PUBLICATIONS

- Neuman E. and Tuschmann S., The Mercer-Young Theorem for Matrix-Valued Kernels on Separable Metric Spaces, *to appear in Positivity* (2025)

AWARDS / FUNDING

- Centre for Doctoral Training Studentship by the EPSRC   *10/23 – 09/27*
- PhD Travel Grant by G-Research   *07/24*
- PROMOS Scholarship by the German Academic Exchange Service   *03/23 – 05/23*
- Mathematics Münster Cluster of Excellence Study Abroad Scholarship   *03/23 – 05/23*
- Princeton Visiting Student Research Collaborator Award   *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

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

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*