

STURMIUS TUSCHMANN

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903 Weeks Hall, Department of Mathematics

16-18 Prince's Gardens, London SW7 1NE

EDUCATION

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|------------|---|------------------------|
| PhD | Imperial College London, UK
Ph.D. in Mathematics of Random Systems (in progress)
Supervisors: Dr Eyal Neuman, Prof. Johannes Muhle-Karbe | <i>10/23 – present</i> |
| MSc | University of Münster, Germany
M.Sc. in Mathematics
Supervisor: Prof. Michael Weiss | <i>10/21 – 07/23</i> |
| BSc | University of Münster, Germany
B.Sc. in Mathematics with Distinction
Supervisor: Prof. Michael Joachim | <i>10/18 – 09/21</i> |

ACADEMIC VISITS

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| • | University of Oxford, UK
Visiting Doctoral Student at the Mathematical Institute | <i>10/23 – 09/24</i> |
| • | Princeton University, US
Visiting Student Research Collaborator at the Department of Mathematics | <i>03/23 – 05/23</i> |
| • | National University of Singapore, Singapore
Research Intern at the Department of Mathematics | <i>09/21 – 11/21</i> |

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
Peking University HSBC Business School, China
- ETH–Hong Kong–Imperial Mathematical Finance Workshop 04/25
Hong Kong Polytechnic University, Hong Kong
- 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