

# STURMIUS TUSCHMANN

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## EDUCATION

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

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- 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

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

## AWARDS / FUNDING

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- 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

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- 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

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- **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

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