

At the University of Göttingen - Public Law Foundation – we offer a position in the research group of Prof. Dr. Christian Hirsch, Department of Mathematics and Computer Science, Institute for Mathematical Stochastics, starting January 1, 2027 or later as

Doctoral Researcher (all genders welcome)
- 75% of pay grade 13 TV-L -

The vacancy is limited for 3 years. The position will be filled subject to the provision of the necessary third-party funding by the funding source.

About us: We develop probabilistic methods for understanding complex random structures, with particular emphasis on spatial networks, rare events, and time-varying topology.

The position: PhD in Probability and Stochastic Geometry. You will conduct research on asymptotic properties of large random systems and develop a doctoral project within the research group.

Particular emphasis will be placed on random systems whose geometry and topology evolve over time, with the aim of understanding both their typical asymptotic behavior and rare transitions. Research topics include spatial random networks, stochastic geometry, large deviation theory, and the probabilistic foundations of topological data analysis, with a current focus on time-varying topologies.

Projects may concern limit theorems for geometric and network statistics, large deviation principles and rare events, or probabilistic methods for persistent and dynamic topological summaries. You will participate in research activities at the Institute for Mathematical Stochastics and have opportunities for collaboration in Göttingen and internationally.

Your profile: As a successful candidate, you

- hold an excellent or very good Master's degree (or equivalent) in mathematics, statistics, or a closely related field,
- have a strong background in probability theory, with interests in stochastic geometry, random graphs, large deviations, topological data analysis, or related areas,
- have strong motivation for mathematical research,
- are proficient in written and spoken English.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Women are therefore strongly encouraged to apply in fields in which they are underrepresented. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The University is particularly committed to the professional participation of severely disabled employees and therefore welcomes applications from severely disabled people. In the case of equal qualifications, applications from people with severe disabilities will be given preference. A disability or equal status is encouraged to be included in the application in order to protect the interests of the applicant.

Please submit your application (CV, degree certificates, motivation letter, and contact details for one referee) in **one PDF document** by 12th of October 2026 via E-Mail: stochastik@uni-goettingen.de. Further information will be provided by Prof. Dr. Christian Hirsch via the same address.

Please note: With submission of your application, you accept the processing of your applicant data in terms of data protection law. Further information on the legal basis and data usage is provided in the Hinweisblatt zur Datenschutzgrundverordnung (DSGVO) [Information General Data Protection Regulation \(GDPR\)](#)