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Expressions of interest are invited for

3 PhD and 3 PostDoc Positions in Geometry, Probability & Deep Learning

at the Department of Mathematics, Nanyang Technological University (NTU) Singapore.

The ideal candidates will have an excellent research background in at least one of these fields, including particularly in infinite-dimensional Riemannian or metric geometry, infinite-dimensional probability or stochastic analysis, statistical learning theory, coding theory, inverse problems, or harmonic analysis.

The positions are part of the project "Geometry, Probability, and Deep Learning" funded by Singapore's National Research Foundation. The goal of this project is to use geometric and probabilistic methods for analyzing the effectiveness of deep learning, to use deep learning methods for improving algorithms in probability and geometry, to advance the mathematical foundations of these methods, and to develop applications in e.g. mathematical finance or biomedical shape analysis.

The postdoctoral positions are for 2 years with optional prolongation to 3 years, and the doctoral positions for 2-5 years. All positions come with an attractive salary package. The expected starting date is mid 2022.

If you are interested, please send your CV, list of publications, and research statement (1-2 pages) to Philipp Harms <contact@philipp harms.com> as soon as possible. The search will continue until the positions are filled.

Research funded and supported by:



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SINGAPORE

* To be appointed in January 2022