

Scientific communication session

# From Chaos to Structure

## Statistics and Probability in Today's World

**Prof. Yannick Baraud & Prof. Giovanni Peccati**

University of Luxembourg, Maison du Savoir, Salle 3.330, Belval

5<sup>th</sup> February 2025



- 18h30-20h00, in English
- Open to the large public
- No registration necessary



**Yannick Baraud** obtained his PhD from University Paris Saclay (former Paris Sud) in 1998 and became a CNRS researcher at the Ecole Normale Supérieure of Paris in 1999. In 2003, he took up a full professorship at the Université de la Côte d'Azur (formerly University Nice Sophia Antipolis), where he set up a team in probability and statistics. He headed the mathematics department at the University Côte d'Azur for three years in 2012, and was awarded the ERA Chair in Mathematical Statistics at the University of Luxembourg in 2019. He is now responsible for the Master in Data Science at the University of Luxembourg.

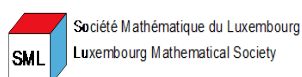


**Giovanni Peccati** obtained his PhD from the University Pierre et Marie Curie in 2002, where he also worked as a researcher, before becoming full professor at the University of Paris Nord (former Paris Nanterre) in 2008. He became professor at the Department of Mathematics of the University of Luxembourg (DMATH) in 2010, and was elected Fellow of the Institute of Mathematical Statistics in 2018. G. Peccati is the current head of DMATH and president of the Luxembourg Mathematical Society.

### Abstract

In the first talk of the evening, G. Peccati will explore the notion of “universality” from a modern perspective and show how this concept links objects as diverse as games of chance, cosmic radiations, billiards and neural networks. In the second talk, Y. Baraud will explain how some young female mathematicians in the early 2000s transformed the study of DNA sequences using groundbreaking statistical techniques.

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