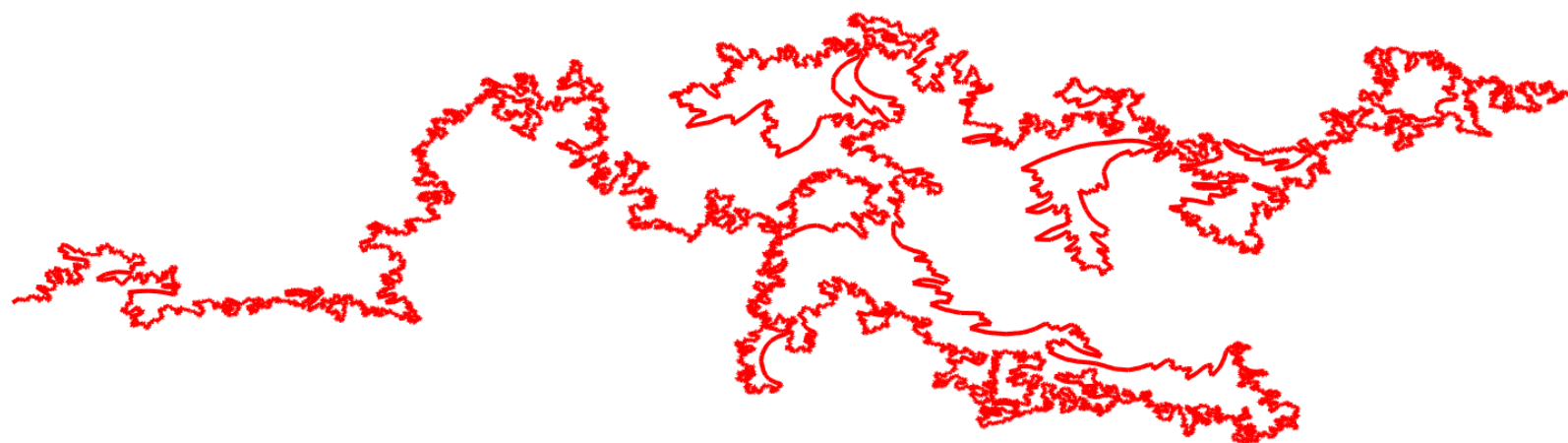
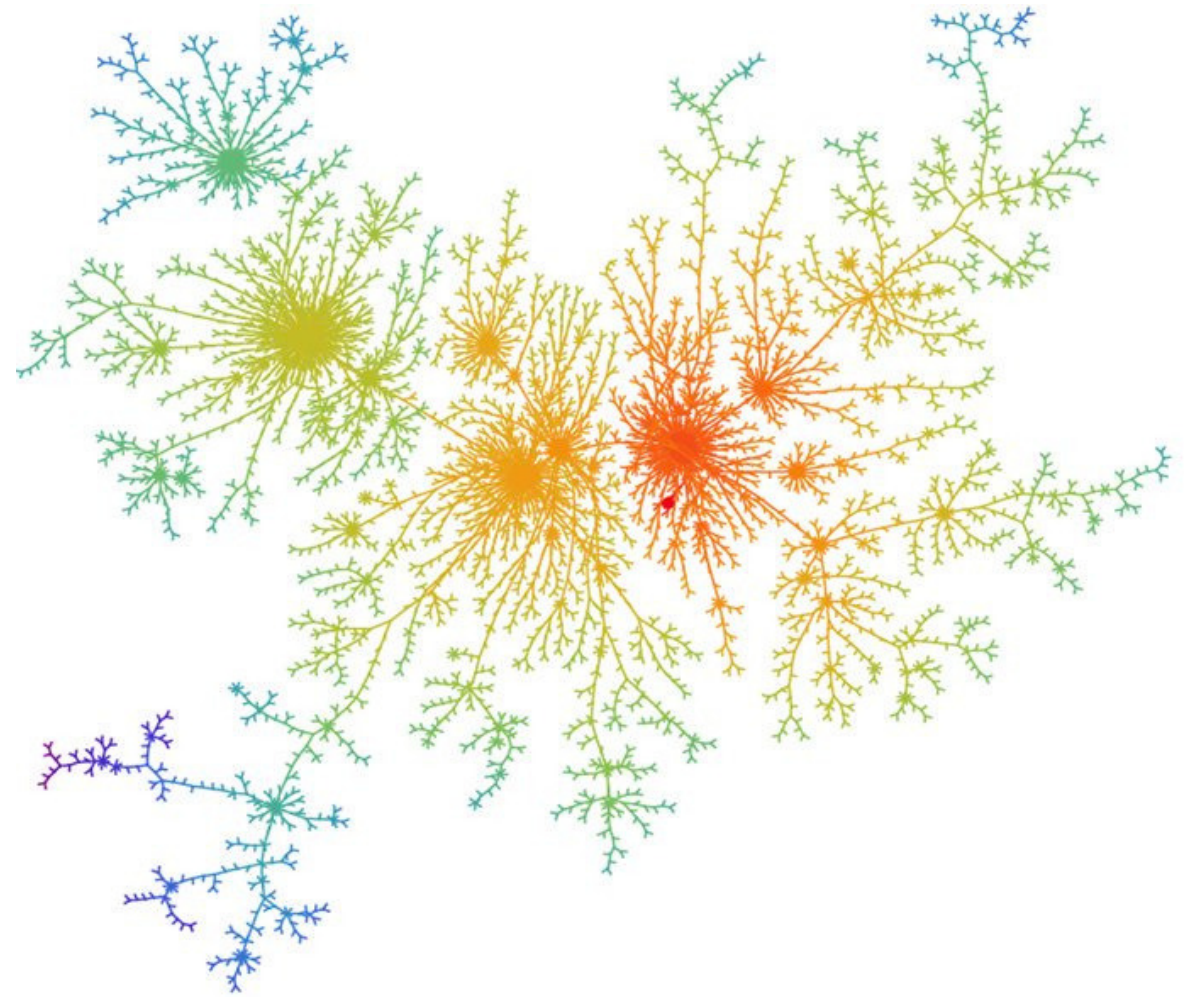




# Centre for Doctoral Training Mathematics of Random Systems

The **EPSRC Centre for Doctoral Training in Mathematics of Random Systems: Analysis, Modelling and Algorithms** is a partnership between the Oxford Mathematical Institute, the Oxford Department of Statistics and the Department of Mathematics, Imperial College London, with the ambition of training the next generation of academic and industry experts in stochastic modelling, advanced computational methods and data science.

**Applications are invited for fully funded 4-year PhD studentships** for our comprehensive training programme.



The Centre offers opportunities for research in a wide range of subjects, from research questions in fundamental mathematics to cutting-edge industrial applications:

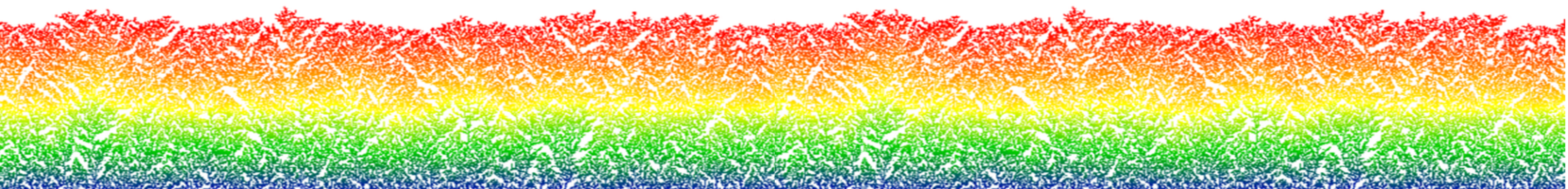
## Foundations

- Stochastic analysis: foundations and new directions
- Stochastic partial differential equations
- Random combinatorial structures: trees, graphs, networks
- Stochastic computational methods and optimal control
- Random dynamical systems and ergodic theory

## Applications

- Randomness and universal behaviour in physical systems
- Stochastic modelling and data-driven modelling in finance
- Mathematical modelling in biology and healthcare
- Mathematical and algorithmic challenges in data science
- Mean-field models and agent-based modelling

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