

Gesine Reinert

9 McCabe Place, Oxford, OX3 0LQ • 07790 511 854 • ORCID 0000-0002-0363-9470 • reinert@stats.ox.ac.uk

Education and Employment

Since 9/2014	Research Professor, Department of Statistics, University of Oxford
10/2000 - 8/2014	University Lecturer, Department of Statistics and Keble College, University of Oxford (maternity leave 4/2010-3/2011)
10/1998 - 9/2000	Senior Research Fellow, King's College, Cambridge
8/1996 - 9/1998	Adjunct Assistant Professor, Department of Mathematics, UCLA
9/1994 - 7/1996	Lecturer, Department of Mathematics, USC, Los Angeles
7/1994	PhD, Applied Mathematics, University of Zürich

Honours and Awards

2024	Bernoulli Prize for an Outstanding Survey Article in Probability
2024	Best Paper Award, Conformal Prediction Conference COPA 2024
2016	Lloyd's Science of Risk Award
2016 - 24	Alan Turing Fellow
2015	elected Fellow of the Institute of Mathematical Statistics
2008	Best Paper Award, Journal of Peace Research

Research Grants

2025	PI, 6 months Turing-HSBC project <i>Specialised Generative Pre-Trained Transformer (GPT) for Domain-Specific Predictive Modelling</i>
2024 - 29	Co-PI and Oxford Statistics lead, EPSRC AI Hub programme grant <i>Mathematical Foundations of Intelligence: An "Erlangen Programme" for AI</i> ; PI M Bronstein
2024 - 26	External collaborator, DFG-funded project <i>Network Inference: Nonparametric Estimation, Bootstrap, and Model Diagnostics in Sparse Graphon Models with Vertex Attributes</i> , PIs Carsten Jentsch and Alexander Kreiss
2023 - 29	Co-PI, <i>Network Stochastic Processes and Time Series</i> (EPSRC Programme grant), PI G Nason
2023 - 24	Co-PI, Turing Project <i>Trustworthy Synthetic Data in Practice</i> , PI C Maple
2022 - 27	Co-PI, Project <i>FAIR: Framework for responsible adoption of artificial intelligence in the financial services industry</i> (a partnership between HSBC and The Alan Turing Institute, supported through an investment from EPSRC), PI L Szpruch
2021 - 24	PI, ONS Turing strategic partnership project on <i>economic networks</i>
2021 - 26	EPSRC Established Career Fellowship, CHARMNET: CHARacterising Models for NETworks
2019 - 22	Co-PI, <i>Genetic Determinants of Microbiome Assembly on Plant Roots</i> , BBRSC grant, PI P Poole
2018 - 23	Co-PI, <i>New Approaches to Data Science: Application Driven Topological Data Analysis</i> . EPSRC grant, PI U Tillman
2018 - 19	<i>Network analysis for protein interactions in liver tissue</i> , Novo Nordisk Pump Priming (with C Deane)
2017 - 19	Turing grant: <i>Anomaly Detection in Networks</i> (with M. Cucuringu, and Accenture)

2017 - 18 Alan Turing Institute seed funding on network comparison (with C Deane, M Cucuringu)
 2017 - 18 Alan Turing Institute seed funding for development of an R package (with C Deane)
 2016 - 20 *European Cooperation for Statistics of Network Data Science (COSTNET)*, Euro 126,000.
 EPSRC grant on *Network Comparison*
 2015 - 18 Co-PI, NSF grant 1518001: *Inference of Markovian Properties of Molecular Sequences Using Shotgun Reads and Applications*, PI F Sun
 2015 - 17 Partner Investigator, ARC Discovery Project *Random Discrete Structures: Approximations and Application*
 2012 - 15 Oxford Martin Programme on *Resource Stewardship*
 2012 - 15 Partner Investigator, ARC Discovery Project: *Random Network Models with Applications in Biology*
 2012 - 13 Oxford-EPSRC funding to support research scientists with caring responsibilities
 2012 EPSRC funding to support Women in Science
 2007 - 12 BBSRC grant Integrative Systems; Co-PI
 2009 - 10 Oxford Centre for Integrative Systems Biology grant, *Predicting specificity-determining sites in protein: protein interactions*, with J. Armitage and C. Deane
 2008 - 09 Oxford Centre for Integrative Systems Biology grant *Localization of Proteins in Chemotaxis Pathways* with J. Armitage and C. Deane
 2005 - 08 MMCOMNET grant *Measuring and Modelling Complex Networks across Domains*.
 Leader of Work Package 6
 2001 - 04 EPSRC grant *Bounds on distances in distribution using Stein's method*
 2000 - 03 ARC (British Council Germany and DAAD) grant *Stein's method for models in statistical mechanics*; with P Eichelsbacher
 1995 - 97 NSF grant *Stein's method and the zero bias transformation*; with L Goldstein

Selected Academic Service

International

Since 2024 Weierstraß-Institut für Angewandte Analysis und Stochastik: external advisory board
 Since 2023 Chair of the Bernoulli Society Committee on Statistical Network Science
 2023 Bernoulli Society chair of the Ethel Newbold prize panel
 Since 2020 Editor-in-Chief, SpringerBriefs in Probability and Mathematical Statistics
 2019-22 Council member, IMS
 Since 1019 Council member, Bernoulli Society
 2016 - 2020 Vice-Chair, European Cooperation for Statistics of Network Data Science
 2019 - 22 Associate Editor, *Bernoulli*
 Since 2017 Associate Editor, *Journal of Computational Biology*
 2012 - 2017 IMS Nomination Panel

External reviewer for senior appointments in Stanford, Harvard, USC Los Angeles, TU Munich, LMU Munich, NUS Singapore, Göttingen, AgroParisTech Paris, Uppsala, KTH Stockholm and EPFL Lausanne

National

2023 External assessor on the Review Panel for the internal review of the Department of Statistics, London School of Economics and Political Science (LSE)
 2021-24 Council member, Royal Statistical Society
 2020-24 Member of the Accenture-Turing Strategic Partnership Joint Steering Committee
 2019-2022 Chair, Applied Probability Section of the Royal Statistical Society