

Aretha L Teckentrup

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EMPLOYMENT

Reader in Mathematics of Data Science

University of Edinburgh (UK), August 2022 - present

Lecturer in Mathematics of Data Science

University of Edinburgh (UK), October 2016 - July 2022

Postdoctoral Research Associate, with Professor Andrew Stuart

University of Warwick (UK), September 2014 - September 2016

Postdoctoral Research Associate, with Professor Max Gunzburger

Florida State University (USA), July 2013 - July 2014

EDUCATION

PhD Mathematics, supervised by Professor Robert Scheichl

University of Bath (UK), October 2009 - June 2013

MMath Mathematics (*with first class honours*)

University of Bath (UK), October 2005 - June 2009

HONOURS AND AWARDS

- **SIAM Women's History Month Honoree**, 2023
- **LMS Whitehead Prize**, 2021
- **SIGEST Paper** (best paper in *SIAM/ASA Journal on Uncertainty Quantification*, Vol. 3-6, chosen on the basis of exceptional interest to the entire SIAM community), 2019
- Inaugural **Early Career Prize** of SIAM activity group Uncertainty Quantification, 2018
- **IMA Leslie Fox Prize** (second prize) in Numerical Analysis, 2017

RESEARCH FUNDING

- **EPSRC Hub on Mathematical and Computational Foundations of AI**, EP/Y028783/1, *ProbAI: A Hub for the Mathematical and Computational Foundations of Probabilistic AI*, £8.5m (Edinburgh share £1m), Edinburgh PI 2024 - 2029
- **EPSRC New Investigator Award**, EP/X01259X/1, £267k, PI 2023-2026
- **6-month research programme** at the Isaac Newton Institute (Cambridge, UK) on *The mathematical and statistical foundation of future data-driven engineering*, co-organised with Mark Girolami, Omar Matar, Eric Moulines, Sebastian Reich and Karen Willcox, 2023
- **EPSRC Centre for Doctoral Training** in Mathematical Modelling, Analysis and Computation (MAC-MIGS), EP/S023291/1, £6.1m, Co-I 2019-2028
- **Fellowship** from the Alan Turing Institute (50%), £50k, PI 2016-2018
- Funding from various sources (including Turing, EMS, GMJT, IMA, LMS) to organise **5 workshops**, £35k, 2017-2023

ACADEMIC LEADERSHIP, MANAGEMENT AND CITIZENSHIP

Membership of committees

- Head of **Organising Committee** of MCQMC '26 (17th International Conference in Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing)
- Member of **Steering committee** of MCQMC conference series, August 2024 - present
- Member of **Organising committee** of SIAM UQ'24 (SIAM Conference on Uncertainty Quantification 2024)
- Member of **Savage Award (Applied Methodology) Committee**, 2023
- Member of **LMS Prizes Committee**, January 2022 - present
- Member of **SIAM Committee on Section Activities**, January 2021 - present
- Elected **Secretary/Treasurer** of SIAM UKIE section, April 2018 - March 2020
- Member of **Events Steering Group** at Alan Turing Institute, Sept 2017 - Sept 2018

Editorships

- Associate editor, Statistics and Computing (Springer), January 2022 - present
- Associate editor, Information and Inference (IMA), January 2022 - present
- Associate editor, SIAM/ASA Journal on Uncertainty Quantification, January 2021 - present
- Associate editor, SIAM Review (Research Spotlights section), January 2019 - December 2024
- Associate editor, Advances in Continuous and Discrete Models (Springer), July 2021 - July 2023

RECENT INVITED RESEARCH TALKS

- 5 invited* **plenary/keynote presentations** at major international conferences (SIAM UQ '18, 43rd Woudschoten Conference '18, CTAC2020, MCQMC '22, IFIP TC7 2024)
- 7 invited* **short courses and tutorials** in the last 5 years (on Bayesian inverse problems/ Markov chain Monte Carlo/ Multilevel Monte Carlo)
- Over 20 invited* seminar presentations at universities and research laboratories in the last 5 years
- Over 30 invited* presentations at international workshops and conferences in the last 5 years
- Over 5 mini-symposium presentations at international conferences in the last 5 years

* = fully funded (if in-person)

RESEARCH SUPERVISION EXPERIENCE

- 2 current postdoctoral researchers: Martin Brolly, Tamim El Ahmad,
- 5 current PhD students: Simon Urbainczyk, Anastasia Istratuca, Elliot Addy, Christian Jimenez Beltran, Matthew Pinkerton,
- 3 previous PhD students: Martin Brolly (now postdoc at UoEdinburgh), Jonathan Spence (now postdoc at UoEdinburgh), Conor Osborne (to start a postdoc position at TU Vienna)