Department of Mathematics Imperial College London London, SW7 2AZ, UK n.boulle@imperial.ac.uk

Nicolas Boullé

Research interests

Numerical analysis, machine learning, computational physics

Employment

- 2024-date **Assistant Professor in Applied Mathematics**, Imperial College London, UK. Department of Mathematics.
- 2022-2024 **Research Fellow**, University of Cambridge, UK.

 Isaac Newton Institute and Department of Applied Maths and Theoretical Physics.

Education

- 2018-2022 **DPhil in Numerical Analysis**, University of Oxford, UK. Supervised by Prof. Patrick Farrell and Prof. Alex Townsend.
- 2017-2018 **Visiting Research Student**, Cornell University, USA. Supervised by Prof. Alex Townsend.
- 2015-2017 BSc and 1st year of MSc in Mathematics, ENS Rennes, France.
- 2013-2015 University foundation course in Mathematics, Lycée Saint-Louis, France.

Research prizes

- 2024 SIAM Activity Group on Linear Algebra Best Paper Prize
- 2023 IMA Lighthill-Thwaites Prize, 2nd place.
- 2022 STEM for Britain, finalist.
- 2021 IMA Leslie Fox Prize for Numerical Analysis, 2nd prize.
- 2021 **G-Research PhD Prize**, 2nd place (£5000).

Research grants and fellowships

- 2023-2028 Scientific Artificial Intelligence (SciAI) Center, Office of Naval Research, \$11.3m, Imperial PI, personal support: \$485k.
- 2022-2023 INI-Simons Postdoctoral Research Fellowship, Simons Foundation.

Research supervision

PhD students:

- Gustav Conradie (Cambridge, with Matt Colbrook), 2024-present.
- Christina Runkel (Cambridge, with Carola Schönlieb), 2021-present.

Undergraduate and MSc students: Markus Dablander (2020), Franklin Deng, Jack Krew, Henry Smith (2021), Emily Zhang, Qile Jiang (2023), Gustav Conradie (2024), Yudi Cai, Penelope Forcioli, Moritz Hauschulz, Ade Olugboji, Lars Slettengren, Emre Ulusoy, Yaxuan Wang, Oussama Zekri, Zihan Zhou (2025).

Teaching

- 2025 Lecturer for Mathematical Foundations of Machine Learning, Imperial College London.
- 2021 **Tutor for Approximation of functions**, University of Oxford.
- 2020 **Tutor for Approximation of functions**, University of Oxford.
- 2019 **TA for Practical Numerical Analysis**, University of Oxford.
- 2019 **TA for Approximation of functions**, University of Oxford.

Professional activities

- 2025 Program Committee, International Conference on Scale Space and Variational Methods in Computer Vision 2025
- 2024 **Co-organizer of a minisymposium**, SIAM Conference on Applied Linear Algebra Title: Operator Learning and Linear Algebra.
- 2023-2024 Co-organizer of the Cambridge ACA seminar
 - 2023 **Co-organizer of a minisymposium**, 93rd GAMM Annual Meeting Title: Randomized algorithms in numerical linear algebra.
 - 2022 Highlighted Reviewer of ICLR 2022
- 2021-date Referee for several journals and conferences, including NeurIPS, ICML, ICLR, JMLR, and SISC.
 - 2021 **Co-organizer of a minisymposium**, SIAM Annual Meeting Title: Approximation theory of neural networks.

Submitted papers

- 30. O. Zekri and **N. Boullé**, Fine-Tuning Discrete Diffusion Models with Policy Gradient Methods, submitted.
- 29. C. Runkel, S. Xiao, **N. Boullé**, and Y. Chen, *Operator learning regularization for macroscopic permeability prediction in dual-scale flow problem*, submitted.
- 28. O. Zekri, A. Odonnat, A. Benechehab, L. Bleistein, **N. Boullé**, and I. Redko, *Large Language Models as Markov Chains*, submitted.
- 27. N. Bouziani and N. Boullé, Structure-Preserving Operator Learning, submitted.

Publications

- 26. T. J.B. Liu, **N. Boullé**, R. Sarfati, and C. J. Earls, *Visualizing in-context probability trajectories of LLMs*, ICLR (2025).
- 25. R. Sarfati, T. J.B. Liu, **N. Boullé**, and C. J. Earls, *Lines of Thought in Large Language Models*, ICLR (2025).
- 24. **N. Boullé** and M. Colbrook, *Multiplicative Dynamic Mode Decomposition*, SIAM J. Appl. Dyn. Syst. (2025).
- 23. D. Persson, **N. Boullé**, and D. Kressner, *Randomized Nyström approximation of non-negative self-adjoint operators*, SIAM J. Math. Data Sci. (2025).
- 22. T. J.B. Liu, **N. Boullé**, R. Sarfati, and C. J. Earls, *LLMs learn governing principles of dynamical systems, revealing an in-context neural scaling law*, EMNLP *Oral* (2024).

- 21. **N. Boullé**, D. Halikias, S. E. Otto, and A. Townsend, *Operator learning without the adjoint*, J. Mach. Learn. Res. (2024).
- 20. **N. Boullé** and M. Colbrook, *On the Convergence of Hermitian Dynamic Mode Decomposition*, Physica D (2024).
- 19. **N. Boullé** and A. Townsend, *A Mathematical Guide to Operator Learning*, Handbook of Numerical Analysis (2024).
- 18. **N. Boullé**, A. Herremans, and D. Huybrechs, *Multivariate rational approximation of functions with curves of singularities*, SIAM J. Sci. Comput. (2024).
- 17. **N. Boullé**, D. Halikias, and A. Townsend, *Elliptic PDE learning is provably data-efficient*, PNAS (2023).
- 16. F. Laakmann and **N. Boullé**, *Bifurcation analysis of a two-dimensional magnetic Rayleigh-Bénard problem*, Physica D (2024).
- 15. H. Praveen, **N. Boullé**, and C. Earls, *Principled interpolation of Green's functions learned from data*, Comput. Methods Appl. Mech. Eng. (2023).
- 14. **N. Boullé**, I. Newell, P. E. Farrell, and P. G. Kevrekidis, *Two-Component 3D Atomic Bose-Einstein Condensates Supporting Complex Stable Patterns*, Phys. Rev. A (2023).
- 13. **N. Boullé**, S. Kim, T. Shi, and A. Townsend, *Learning Green's functions associated with parabolic partial differential equations*, J. Mach. Learn. Res. (2022).
- 12. **N. Boullé**, P. E. Farrell, and M. E. Rognes, *Optimal control of Hopf bifurcations*, SIAM J. Sci. Comput. (2023).
- 11. **N. Boullé**, P. E. Farrell, and A. Paganini, *Control of bifurcation structures using shape optimization*, SIAM J. Sci. Comput. (2022).
- 10. **N. Boullé** and A. Townsend, *A generalization of the randomized singular value decomposition*, ICLR (2022).
- 9. **N. Boullé**, C. J. Earls, and A. Townsend, *Data-driven discovery of Green's functions with human-understandable deep learning*, Sci. Rep. (2022).
- 8. **N. Boullé**, V. Dallas, and P. E. Farrell, *Bifurcation analysis of two-dimensional Rayleigh–Bénard convection using deflation*, Phys. Rev. E (2022).
- 7. A. Ellingsrud, **N. Boullé**, P. E. Farrell, and M. E. Rognes, *Accurate numerical simulation of electrodiffusion and osmotic water movement in brain tissue*, Math. Med. Biol. (2021).
- 6. **N. Boullé** and A. Townsend, *Learning elliptic partial differential equations with randomized linear algebra*, Found. Comput. Math. (2022).
- 5. **N. Boullé**, E. G. Charalampidis, P. E. Farrell, and P. G. Kevrekidis, *Deflation-based identification of nonlinear excitations of the three-dimensional Gross–Pitaevskii equation*, Phys. Rev. A (2020).
- 4. N. Boullé, Y. Nakatsukasa, and A. Townsend, Rational neural networks, NeurIPS (2020).
- 3. E. G. Charalampidis, **N. Boullé**, P. E. Farrell, and P. G. Kevrekidis, *Bifurcation analysis of stationary solutions of two-dimensional coupled Gross–Pitaevskii equations using deflated continuation*, Commun. Nonlinear Sci. Numer. Simulat. (2020).
- 2. N. Boullé and A. Townsend, Computing with functions in the ball, SIAM J. Sci. Comput. (2020).
- 1. **N. Boullé**, V. Dallas, Y. Nakatsukasa, and D. Samaddar, *Classification of chaotic time series with deep learning*, Physica D (2020).

Technical reports

- 3. **N. Boullé**, J. Słomka, and A. Townsend, *An optimal complexity spectral method for Navier–Stokes simulations in the ball*, arXiv:2103.16638, 2021.
- 2. D. Barton, **N. Boullé**, E. Campillo-Funollet, C. Hall, S. Ruangdech, and Y. Zhou, *Compressing aerodynamic hazard data* (with Zenotech), ESGI 162, 2020.
- 1. E. Campillo-Funollet, **N. Boullé**, M. Ebeling-Rump, A. Pichler, A. Farid, M. P. Goodridge, H. Lee, B. Lyu, and M. Sejeso, *Uncertainty in seismic inverse problems* (with BP), ESGI 145, 2019.

Academic visits and talks

California Institute of Technology, Los Angeles, USA.November 2024University of British Columbia, Vancouver, Canada.November 2024Simon Fraser University, Vancouver, Canada.November 2024Oberwolfach workshop on Inverse Problems, Germany.October 2024Imperial-UCL Numerics Seminar, London, UK.October 2024CNRS Besançon, Besançon, France.October 2024I-X Imperial College London Seminar, London, UK.September 2024Firedrake 2024 Conference, Oxford, UK.September 2024Huawei Workshop, invited speaker, Bordeaux, France.September 2024Workshop on ML in infinite dimensions, invited speaker, Bath, UK.August 20244th Symposium on ML and Dynamical Systems, invited speaker, Canada.July 2024Cornell University, USA.June 2024Grenoble AI for Sciences Workshop, keynote speaker, France.May 2024Iniversity of Bath, Numerical Analysis seminar, UK.May 2024One World Mathematics of Machine Learning, online seminar.April 2024University of Bath, Numerical Analysis seminar, UK.March 2024University of Cambridge, M4DL Workshop, invited speaker, UK.March 2024University of Garbridge, M4DL Workshop.January 2024University of Birmingham, Applied Mathematics Seminar.January 2024Lawrence Livermore National Laboratory, DDPS Webinar.December 2023JOhns Hopkins University, invited by Brendan Keith, USA.June 2023British Applied Mathematics Colloquium, UK.June 2023British Applied Mathematics Colloquium, UK.April 2023UCL, MathADL workshop.	Maxwell Institute, Edinburgh, UK.	November 2024
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Equadiff 15 conference , Czech Republic. July 2022	BIFD conference, Netherlands.	August 2022
	Equadiff 15 conference, Czech Republic.	July 2022

University of Cambridge, invited by Carola Schönlieb.	June	2022
IMA Conference on Numerical Linear Algebra and Optimization, Birm	ningham. June	2022
Householder Symposium on Numerical Linear Algebra, Italy.	June	2022
University of Oxford, Numerical Analysis seminar.	May	2022
ICLR 2022 conference, online.	April	2022
SIAM Conference on Uncertainty Quantification, online.	April	2022
Virtual study group, V-KEMS.	March	2022
STEM for Britain, UK House of Commons.	March	
Cornell University, invited by Alex Townsend, USA.	February	2022
PRISM Residential workshop, UK.	January	2022
SIAM UKIE Annual Meeting, online.	January	2022
University of Oxford, Junior Applied Mathematics Seminar.	October	
11th Montreal Industrial Problem Solving Workshop, online.	August	2021
SIAM Annual Meeting, online.	July	2021
British Early Career Mathematicians' Colloquium, online.	July	2021
20th IMA Leslie Fox Prize Event, online.	June	2021
21st Geilo Winter School, online.	January	2021
NeurIPS 2020 conference, online.	December	
University of Oxford, Numerical Analysis seminar.	November	2020
European Study Group with Industry 162 , University of Leeds.	July	2020
Simula Research Laboratory, visiting Marie Rognes, Norway.	August-September	
European Study Group with Industry 145 , University of Cambridge.	April	
University of Oxford, Numerical Analysis seminar.	October	
MIT, visiting Jonasz Słomka, USA.	April	
Cornell University, SCAN seminar, USA.	November	2017
Memorial University of Newfoundland, visiting Alex Bihlo, Canada.	September	2017