

Lloyd N. Trefethen FRS

School of Engineering and Applied Sciences, Harvard University US + UK citizen
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RESEARCH INTERESTS

Numerical analysis and applied mathematics. Interests include linear algebra, partial differential equations, approximation theory, quadrature, and complex analysis.

EMPLOYMENT

Professor of Applied Mathematics in Residence, Harvard University: 2023-
Professor of Numerical Analysis/Fellow of Balliol College, University of Oxford: 1997-2023
Global Distinguished Professor of Mathematics and Computer Science, NYU: 2013-19
Associate and Full Professor of Computer Science, Cornell University: 1991-97
Assistant and Associate Professor of Applied Mathematics, MIT: 1984-91
NSF Postdoctoral Fellow and Adjunct Assistant Professor, NYU: 1982-84

EDUCATION

PhD (Computer Science/Numerical Analysis), Stanford University: 1982
MS (Computer Science/Numerical Analysis), Stanford University: 1980
AB *summa cum laude* (Applied Mathematics), Harvard College: 1977

SELECTED FELLOWSHIPS, HONORS AND AWARDS

Josiah Willard Gibbs Lectureship, AMS: 2026
Member, US National Academy of Sciences: 2025
Foreign Member, Chinese Academy of Sciences: 2023
Frontiers of Science Award: 2023
John von Neumann Prize, SIAM: 2020
Honorary doctorate, Stellenbosch U.: 2019
Honorary doctorate, U. of Fribourg: 2018
Pólya Prize for Mathematical Exposition, SIAM: 2017
Naylor Prize, London Mathematical Society: 2013
ERC Advanced Grant: 2012-2017
Gold Medal, Institute of Mathematics and its Applications (UK): 2011
Von Neumann Professor, TU Munich: 2010
Matheon Professor, TU Berlin: 2010
Divisional Teaching Award, U. of Oxford: 2009
Member, US National Academy of Engineering: 2007
Fellow, Royal Society (UK): 2005
Dean's Prize for Excellence and Innovation in Teaching and Advising, Cornell U.: 1994
NSF Presidential Young Investigator Award: 1986-91
Graduate Student Council Teaching Award, MIT: 1990
IBM Faculty Development Award: 1986-88
First Prize, Fox Competition in Numerical Analysis: 1985
NSF Mathematical Sciences Postdoctoral Fellowship: 1982-84
Hertz Foundation Fellowship: 1980-82
NSF Graduate Fellowship: 1977-80
Phi Beta Kappa: 1975 (elected as a Junior at Harvard College)

AFFILIATIONS

SIAM (Council 1996-2001, Board of Trustees 2004-11, Fellow 2009, President 2011-2012)
American Mathematical Society (Fellow 2013)
London Mathematical Society
Institute of Mathematics and its Applications (Fellow)

EDITORIAL

Editor, *Acta Numerica*, 2008-
Member of Editorial Board, *Proceedings of the Royal Society A*: 2003-2008
Associate Editor, *Computational Methods in Function Theory*: 2001-2013
Associate Editor, *Advances in Computational Mathematics*: 2001-2006
Associate Editor, *Linear Algebra and its Applications*: 2001-2007
Editor, *Calcolo*: 1998-2012
Associate Editor, *IMA Journal of Numerical Analysis*: 1997-
Associate Editor, *Japan Journal of Industrial and Applied Mathematics*: 1991-1996
Editor, *SIAM Review*: 1989-2008 and 2014-2017
Associate Editor and Editor, *Numerische Mathematik*: 1988-1999
Associate Editor, *Journal of Computational and Applied Mathematics*: 1987-2012
Editor, *SIAM Journal on Numerical Analysis*: 1984-1999

PhD/DPhil STUDENTS

At MIT: Alan Edelman, Louis Howell, Walter Mascarenhas, Satish Reddy, Noël Nachtigal.
At Cornell: Toby Driscoll, Kim-Chuan Toh, Jeffrey Baggett, Divakar Viswanath.
At Oxford: Thomas Wright, Lehel Banjai, Aly-Khan Kassam, Timo Betcke, Zachary Battles, Teik-Wynn Tee, Thomas Schmelzer, Nick Hale, Ricardo Pachón, Ásgeir Birkisson, Mark Richardson, Alex Townsend, Anthony Austin, Mohsin Javed, Hadrien Montanelli, Abi Gopal.
At Harvard: Sam Hocking, Tony Xu.
13 of these are launched on academic careers; details available at website.

PUBLICATIONS

About 150 journal articles, 60 essays, and 8 books:
An Applied Mathematician's Apology, SIAM, 2022
Exploring ODEs (with A. Birkisson and T. A. Driscoll), SIAM, 2018
Approximation Theory and Approximation Practice, SIAM, 2013 and 2019
Trefethen's Index Cards, World Scientific, 2011
Spectra and Pseudospectra (with M. Embree), Princeton, 2005
Schwarz-Christoffel Mapping (with T. A. Driscoll), Cambridge, 2003
Spectral Methods in Matlab, SIAM, 2000
Numerical Linear Algebra (with D. Bau III), SIAM, 1997 and 2022

SELECTED INVITED LECTURES

Marker Lectures, Penn State U.: 2025
Frederick and Julia Wan Lecturer Prize, U. of Washington: 2025
Emil Grosswald Lectures, Temple University: 2025
Kliakhandler Lectures, Michigan Tech: 2018
Aziz Lecture, University of Maryland College Park: 2018
ANZIAM annual meeting: 2018
Erceg Senior Fellow lecture, New Zealand: 2017
Richard C. DiPrima Lecture, Rensselaer Polytechnic Institute: 2017
Nieuwland Lecture, U. of Notre Dame: 2015
Gentry Lectures, Wake Forest U.: 2014
Feng Kang Lecture, Chinese Academy of Sciences: 2011
Courant Institute 75th Anniversary, NYU: 2011
Ziwet Lectures, U. of Michigan: 2011
Milliman Lectures, U. of Washington: 2010
Menger Lecture, Illinois Institute of Technology: 2008
Norbert Wiener Lecture, Tufts U.: 2005
A. R. Mitchell Lecture, Dundee Biennial Conf. on Numerical Analysis: 2005
SIAM 50th Anniversary Annual Meeting, Philadelphia: 2002
Joint Plenary Lecture, British Maths. and Applied Maths. Colloquia, Warwick: 2002
Keynote speaker, SANUM, U. of Stellenbosch, South Africa: 1999, 2011, 2016, 2019
International Congress of Mathematicians, Berlin: 1998
Dundee/Strathclyde Biennial Confs. on Numerical Analysis: 1997, 2001, 2011
International Congress on Applied and Industrial Mathematics, Hamburg: 1995
+ other lectures at about 250 universities and research institutions in 34 countries of Europe, North and South America, Australia, Asia, and Africa.