

CURRICULUM VITAE – BEN GREEN

Name	Ben Joseph Green FRS
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Date of birth	27 February 1977

In brief

I am the Waynflete Professor of Pure Mathematics at Oxford University. My work involves analysis, combinatorics, number theory and group theory, and I am particularly interested in prime numbers.

School education summary

01/1982 – 07/1988	Bishop Road Primary School, Bristol, England
09/1988 – 07/1995	Fairfield Grammar School, Bristol, England

University education

09/1995 – 06/1998	BA in Mathematics at Trinity College, Cambridge First class in all three years
09/1998 – 06/1999	Certificate of Advanced Study in Mathematics (Part III) with distinction
09/1999 – 10/2002	PhD, Cambridge University. Thesis title: Topics in arithmetic combinatorics Supervisor: Prof W.T. Gowers FRS
09/2000 – 05/2001	Visiting graduate student, Princeton University

Positions held

10/2001 – 09/2005	Fellow under Title A, Trinity College Cambridge
01/2003 – 04/2003	EU postdoctoral researcher, Alfréd Rényi Institute, Budapest
09/2003 – 08/2004	PIMS postdoctoral fellow in number theory, UBC, Vancouver
01/2005 – 09/2006	Professor of Pure Mathematics, University of Bristol
07/2005 – 06/2007	Clay Research Fellow
09/2005 – 12/2006	Visiting Professor, MIT
09/2006 – 07/2013	Herchel Smith Professor of Pure Mathematics, University of Cambridge
09/2007 – 12/2007	Member, IAS Princeton
09/2009 – 06/2010	Radcliffe Fellow, Harvard University
08/2013 –	Waynflete Professor of Pure Mathematics, University of Oxford

Awards and honours

- 2001 Smith's Prize, Cambridge University
- 2004 Clay Research Award
- 2005 London Mathematical Society Whitehead Prize
- 2005 Salem Prize
- 2006 Ostrowski Prize (2005, joint with T. Tao)
- 2007 SASTRA Ramanujan Prize
- 2008 European Mathematical Society Prize
- 2010 Fellow of the Royal Society
- 2014 Sylvester Medal
- 2019 London Mathematical Society Senior Whitehead Prize

Grants awarded

- 2006 Philip Leverhulme Prize (70000 pounds)
- 2011 Leverhulme Visiting Professorship on behalf of B. Sudakov (25000 pounds)
- 2011 ERC Starting Grant (1m Euros)
- 2015 Simons Investigator Grant (500000 dollars)

Talks and invitations

I have given over 200 talks at institutions in 19 countries, including many departmental colloquia and distinguished lectures. A full list is available on my website. The following contains selected highlights.

- 05/05 Calderón-Zygmund Lectures, Chicago
- 01/06 MAA Invited Lecture, San Antonio Joint Meeting
- 08/06 ICM Section Speaker (number theory), Madrid
- 05/07 Wolff Memorial Lectures, Caltech
- 12/07 Ramanujan Lecture, Kumbakonam
- 07/08 Prize Lecture, European Mathematical Congress
- 10/09 Cahit Arf Lectures, Turkey
- 09/10 Forder Lectures, New Zealand
- 04/13 Stanford (MRC Distinguished Lecture Series)
- 05/13 Gauss Lecture, Augsburg
- 12/13 Rademacher Lectures, University of Pennsylvania
- 04/14 Hadamard Lectures, Paris
- 04/14 Weierstrass Lectures, Paderborn
- 05/14 Simons Lectures, MIT
- 08/14 ICM Plenary Lecture, Seoul
- 05/15 Bellow Lectures, Northwestern
- 09/21 Richard and Louise Guy Lecture

I have also given a number of public lectures about mathematics to a general (not mathematical) audience. These include the Clay Lectures in Mathematics (2006), a public lecture at the Radcliffe Institute, Harvard (2010), a public lecture at the Royal Society (2012) and the Gauss Lecture in Munich in 2013. Finally, I appeared on *The Forum* on BBC Radio 4 to discuss prime numbers.

Workshops organised* or co-organised

LMS/Bristol Workshop on Additive Combinatorics*	September 5-9 2005.
MSRI Workshop on Discrete Rigidity Phenomena, Berkeley	November 3rd-7th 2009.
Gregynog Hall workshop on Groups and Additive Combinatorics*	June 27th-July 1st 2011.
LMS-CMI research school on Bounded Gaps Between Primes	Sep 22nd-Sep 26th 2014.
Harvard Workshop on Additive Combinatorics	October 2017

Editorial duties

Glasgow Mathematical Journal	International Editor
Proceedings of Cambridge Philosophical Society	Managing Editor (since 2012)
Journal de Théorie des Nombres de Bordeaux	Editor (until 2020)
Discrete Analysis	Editor (2016-present)
Algebra and Number Theory	Editor (2019-present)
Communications of the AMS	Associate Editor (2021-present)
MathSciNet Reviews	Contributor (around 260 reviews so far)

Other professional duties

Member of various programme committees and prize committees including ICM, twice
Director of studies and senior lecturer, Trinity College (2008–)
Pastoral tutor, Trinity College (2010–12)
Buildings Committee, Trinity College (2007–13)
Fellowship Shortlisting Committee, Trinity College (2012)
Fellowship Committee, Magdalen College Oxford (2014-16)
Various Royal Society Committees
Abel Prize Committee, (2017-18)
Associate Head of Department (Research), Oxford (2020-22)

PhD students supervised

Lloyd Husbands	(MSc, Bristol 2010)
Olof Sisask	(PhD, Bristol 2009)
Vicky Neale	(PhD, Cambridge 2011)
Lilian Matthiesen	(PhD, Cambridge 2011)
Adam Harper	(PhD, Cambridge 2012)
Matthew Tointon	(PhD, Cambridge 2013)
Frederick Manners	(D. Phil, Oxford 2016)
Sean Eberhard	(D. Phil, Oxford 2016)
Przemysław Mazur	(D. Phil, Oxford 2016)
Rudi Mrazovic	(D. Phil, Oxford 2016)
Jakub Konieczny	(D. Phil, Oxford 2017)
Aled Walker	(D. Phil, Oxford 2018)
Sofia Linqvist	(joint with Roger Heath-Brown, D. Phil, Oxford 2019)
James Aaronson	(D. Phil, Oxford 2020)
Daniel Altman	(expected graduation 2023)
Zahcary Chase	(expected graduation 2023)
Benjamin Bedert	(expected graduation 2025)

Postdoctoral students

Boris Bukh	(2009–12)
Bob Hough	(2012–15)
Michael Bateman	(2012–13)
Yonatan Gutman	(2012–14)
Miguel Walsh	(2013–14)
Sean Prendiville	(2015–16)
Eric Naslund	(visiting PhD student, 2015-16)
George Shakan	(2019-21)
Akshat Mudgal	(2021-24)
Yifan Jing	(2021-24)

Courses taught

Restriction and Kakeya Phenomena (24 hrs)	Part III, Cambridge	2002
Math 100 (36 hrs)	UBC, Vancouver	2003
Prime Numbers (24hrs)	Part III, Cambridge	2004
Additive Combinatorics (8hrs)	MIT	2005
Additive Number Theory (24hrs)	Part III, Cambridge	2007
Ergodic Theory (24hrs)	Part III, Cambridge	2008
Metric and Topological Spaces (12hrs)	Part IA, Cambridge	2008, 2009
Additive Combinatorics (24hrs)	Part III, Cambridge	2009
Additive Combinatorics (16hrs)	Harvard	2009
Linear Analysis (24hrs)	Part II, Cambridge	2010, 2011
Analytic Topics in Group Theory (24hrs)	Part III, Cambridge	2011
Prime Numbers (24hrs)	Part III, Cambridge	2012
Additive Combinatorics (24hrs)	Part III, Cambridge	2012
Topics in Analysis (24hrs)	Part II, Cambridge	2013
Ergodic Theory (16hrs)	Part C, Oxford	2014, 2015
Analytic Number Theory (16hrs)	Part C, Oxford	2016, 2018
Number Theory (8hrs)	Part A, Oxford	2017, 2018, 2019, 2020
Analysis III: Integration (8hrs)	Prelims, Oxford	2017, 2018, 2019, 2020
Algebraic Number Theory (16hrs)	Part B, Oxford	2020
Metric Spaces and Complex Analysis (first half, 16 hrs)	Part A, Oxford	2020, 2021
Additive and Combinatorial Number Theory (16hrs)	Part C, Oxford	2018, 2019