FRANCESCA BALESTRIERI, MA (CANTAB), MSC (OXON), DPHIL (OXON)

E-mail: fbales@mpim-bonn.mpg.de

Webpage: https://fbalestrieri.github.io

Address: Max-Planck-Institut für Mathematik, Vivatsgasse 7, 53111, Bonn, Germany

Nationality: Italian

EMPLOYMENT

• Post-Doc Fellowship, Max-Planck-Institut für Mathematik	2017 - 2019
Mentors: Prof Yuri I Manin, Prof Pieter Moree	
• Stipendiary Lecturer in Pure Mathematics, Pembroke College, University of Oxford	2016 – 2017
• Freelance Editor, Oxford University Press	2015 – 2016

EDUCATION

DPhil in Number Theory, University of Oxford Research Interests: Number Theory, Arithmetic Geometry Supervisor: Prof E Victor Flynn MSc Mathematics and the Foundations of Computer Science, University of Oxford Result: Distinction BA (Hons) Mathematical Tripos, University of Cambridge (Upgraded to MA in 2016) Result: Class I (each year)

ACADEMIC VISITS

• Institut Henri Poincaré, Paris, France	Apr–Jul 2019
Participating in the thematic trimester À la redécouverte des points rationnels	
• Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach, Germany	Dec 2018
Collaborating with Dr Valentijn Karemaker	
• American University of Beirut, Beirut, Lebanon	Sep 2018
Visiting Prof Kamal Khuri-Makdisi	
• University of Washington, Seattle, USA	Sep–Dec 2015
Visiting Prof Bianca Viray	

Published articles and Preprints

 $6. \ \textbf{Arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces} \\ \text{(with R. Newton)}$

Accepted for publication, IMRN (2018).

- 5. Brauer-Manin obstruction and families of generalised Châtelet surfaces over number fields Accepted for publication, *International Journal of Number Theory* (2018).
- 4. Elliptic fibrations on covers of the elliptic modular surface of level 5

(with J. Desjardins, A. Garbagnati, C. Maistret, C. Salgado)

WINE II: Contributions to Number Theory and Arithmetic Geometry, AWM Springer Series 11 (2018), 159-197.

3. Iterating the algebraic étale-Brauer set

Journal of Number Theory 182 (2018), 284-295

2. Obstruction sets and extensions of groups

Acta Arithmetica 173 (2016), 151–181.

 $1. \ In sufficiency \ of the \ Brauer-Manin \ obstruction \ for \ rational \ points \ on \ Enriques \ surfaces$

(with J. Berg, M. Manes, J. Park, B. Viray)

Directions in Number Theory: Proceedings of the 2014 WIN3 Workshop, AWM Springer Series 3 (2016), 1–32.

SCHOLARSHIPS AND PRIZES

• EPSRC Studentship, fees & maintenance, Mathematical Institute (University of Oxford).	2013 – 2017
• Jex-Blake Scholarship, LMH (University of Oxford)	2013 - 2014
• Academic Development Grant (Ginsberg Fund), LMH (University of Oxford)	2013
• Anne Jemima Clough Prize, Newnham College (University of Cambridge)	2012
• Chadburn Third-Year Scholarship , Newnham College (University of Cambridge)	2011 - 2012
• Marjorie Stewart Tunnicliffe Prize, Newnham College (University of Cambridge)	2011
• Anne Jemima Clough Prize, Newnham College (University of Cambridge)	2011

 Mathilde Blind Second-Year Scholarship, Newnham College (University of Cambridge) Jane Dora Archibald Prize, Newnham College (University of Cambridge) 	2010–2011 2010
Teaching (University of Oxford)	
• Stipendiary Lectureship, Pembroke College.	2016-2017
M1 Groups and group actions. First year course.	Trinity Term 2017
A.SO Group Theory. Second year course.	Trinity Term 2017
A4 Integration. Second year course.	Hilary Term 2017
M1 Groups and group actions. First year course.	Hilary Term 2017
M2 Analysis II: Continuity and Differentiability. First year course.	Hilary Term 2017
A0 Linear Algebra. Second year course.	Michaelmas Term 2016
A2 Metric Spaces and Complex Analysis. Second year course.	Michaelmas Term 2016
M2 Analysis I: Sequences and Series. First year course.	Michaelmas Term 2016
• A.SO Graph Theory, Tutor for New College. Second year course.	Trinity Term 2016
• C2.6 Introduction to Schemes, Consultation Sessions Tutor.	Trinity Term 2016
• C2.6 Introduction to Schemes, Class Tutor. Fourth year/graduate course.	Hilary Term 2016
• A.SO Graph Theory, Tutor for New College. Second year course.	Trinity Term 2015
• B3.4 Algebraic Number Theory, Consultation Sessions Tutor.	Trinity Term 2015
• C3.7 Elliptic Curves, Consultation Sessions Tutor (2 Sets).	Trinity Term 2015
• B3.4 Algebraic Number Theory, Class Tutor. Third year course.	Hilary Term 2015
• C3.7 Elliptic Curves, Class Tutor (2 Sets). Fourth year/graduate course.	Hilary Term 2015
• C3.4 Algebraic Geometry, Class Tutor. Fourth year/graduate course.	Michaelmas Term 2014
 B3.1 Galois Theory, TA (2 sets). Third year course. B9b Algebraic Number Theory, TA. Third year course. 	Michaelmas Term 2014
• C9.1b Elliptic Curves, TA. Fourth year/graduate course.	Hilary Term 2014 Hilary Term 2014
• C9.2a Analytic Number Theory, TA. Fourth year/graduate course.	Michaelmas Term 2013
	Michaelmas Term 2010
TEACHING (UNIVERSITY OF WASHINGTON)	
• Algebraic Number Theory, 2 lectures (substituting Prof Viray). Graduate course.	Fall Quarter 2015
Committees and service	
Committees and service • Reviewer for the Mathematical Reviews of the AMS.	2017–
	2017– 2017–
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. 	2017 - 2015 - 2016
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. 	2017– 2015–2016 Michaelmas Term 2014
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kammer varieties and Kammer varieties. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Composition of Control of Practices and Algebraic Geometry Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Control of Practices and Review Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Control of Practices and Kanada Control of Practices and Review Seminar, EPFL, Switzerland. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Groups, Arithmetic and Algebraic Geometry Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Products of Rummer Varieties and Rumber Theory Seminar, IST Austria, Austria. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 18 Sep 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Algebraic Geometry Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, American University of Beirut, Lebanon. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. Term 2013 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 18 Sep 2018 3 surfaces 4 Sep 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Konder Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Konder Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Konder Theory Seminar, American University of Beirut, Lebanon. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Konder Theory Seminar, American University of Beirut, Lebanon. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Konder Theory Seminar, American University of Beirut, Lebanon. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Konder Theory Seminar, American University of Beirut, Lebanon. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. Term 2013 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 18 Sep 2018 3 surfaces 4 Sep 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Algebraic Geometry Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanada Number Theory Seminar, American University of Beirut, Lebanon. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. Term 2013 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 18 Sep 2018 3 surfaces 4 Sep 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanana Company. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanana Company. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanana Company. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanana Points on Schiermonnikoog, Netherlands. Arithmetic of rational points and 0-cycles of degree 1 on Kummer varieties Number Theory Lunch Seminar, Max-Planck-Institut für Mathematik, Bonn, Germany. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 18 Sep 2018 3 surfaces 4 Sep 2018 3 surfaces 2 Jul 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanana Anthematical Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanana American University of Beirut, Lebanon. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanani Points on Schiermonnikoog, Netherlands. Arithmetic of rational points and 0-cycles of degree 1 on Kummer varieties Number Theory Lunch Seminar, Max-Planck-Institut für Mathematik, Bonn, Germany. Categorie: un cambiamento di paradigma in matematica (in Italian) 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 18 Sep 2018 3 surfaces 4 Sep 2018 3 surfaces 2 Jul 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TALKS TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and Kanana Content of Institute of Instit	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. Term 2013 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 4 Sep 2018 3 surfaces 2 Jul 2018 28 Mar 2018 7 Dec 2017
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Talks TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Groups, Arithmetic and Algebraic Geometry Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. CAMS/MATH Seminar, American University of Beirut, Lebanon. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Rational Points on Schiermonnikoog, Netherlands. Arithmetic of rational points and 0-cycles of degree 1 on Kummer varieties Number Theory Lunch Seminar, Max-Planck-Institut für Mathematik, Bonn, Germany. Categorie: un cambiamento di paradigma in matematica (in Italian) Seminario di Logica, Università Ca' Foscari, Venice, Italy. Studying arithmetic properties of rational points on varieties 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 4 Sep 2018 3 surfaces 2 Jul 2018 28 Mar 2018
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Groups, Arithmetic and Algebraic Geometry Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. CAMS/MATH Seminar, American University of Beirut, Lebanon. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Rational Points on Schiermonnikoog, Netherlands. Arithmetic of rational points and 0-cycles of degree 1 on Kummer varieties Number Theory Lunch Seminar, Max-Planck-Institut für Mathematik, Bonn, Germany. Categorie: un cambiamento di paradigma in matematica (in Italian) Seminario di Logica, Università Ca' Foscari, Venice, Italy. Studying arithmetic properties of rational points on varieties MPI-Oberseminar, Max-Planck-Institut für Mathematik, Bonn, Germany. 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. Term 2013 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 4 Sep 2018 3 surfaces 2 Jul 2018 28 Mar 2018 7 Dec 2017 26 Oct 2017
 Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of Mathematics and for Advances in Mathematics. Organiser of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxford. Talks TBA Intercity Number Theory Seminar, Utrecht University, Netherlands. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Groups, Arithmetic and Algebraic Geometry Seminar, EPFL, Switzerland. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Number Theory Seminar, IST Austria, Austria. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. CAMS/MATH Seminar, American University of Beirut, Lebanon. On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K. Rational Points on Schiermonnikoog, Netherlands. Arithmetic of rational points and 0-cycles of degree 1 on Kummer varieties Number Theory Lunch Seminar, Max-Planck-Institut für Mathematik, Bonn, Germany. Categorie: un cambiamento di paradigma in matematica (in Italian) Seminario di Logica, Università Ca' Foscari, Venice, Italy. Studying arithmetic properties of rational points on varieties 	2017– 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. Term 2013 2013–2017 15 Mar 2019 3 surfaces 14 Nov 2018 3 surfaces 4 Sep 2018 3 surfaces 2 Jul 2018 28 Mar 2018 7 Dec 2017

• Fundamental groups in Arithmetic Geometry	$26~\mathrm{May} - 3~\mathrm{Jun}~2016$
• GAeL XXIV Nesin Mathematics Village, Turkey.	13–17 Jun 2016
Lorentz Center, Leiden, Netherlands.	-
• Women In Numbers Europe 2	25-30 Sep 2016
• Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy.	22 Dec 2016
Rice University, Houston, USA.	00 D 0012
• RTG Lectures in Arithmetic Geometry at Rice	17–19 Feb 2017
• Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany.	2–8 Jul 2017
Università di Genova, Genova, Italy.	
• XIV Giornate di Geometria Algebrica ed Argomenti Correlati	29 May – 1 Jun 2018
• Rational Points on Schiermonnikoog Schiermonnikoog, Netherlands.	2 - 6 Jul 2018
Institut Henri Poincaré, Paris, France.	0 0 1 1 0010
• À la redécouverte des points rationnels	15 Apr –12 Jul 2019
Franken-Akademie Schloss Schney, Schney, Germany.	14-20 Jul 2019
• Rational Points 2019	14–20 Jul 2019
Conferences and Workshops	
Junior Number Theory seminar, University of Oxford, UK.	_0o. _ 010
Young Researchers in Mathematics 2014, University of Warwick, UK. • Obstructions to the Hasse principle	25 Nov 2013
Obstructions! Voung Researchers in Mathematics 2014, University of Warwick, UK	2 Jul 2014
Junior Number Theory seminar, University of Oxford, UK.	
• Ranks of elliptic curves	24 Nov 2014
• Obstruction sets and extensions of groups Junior Number Theory seminar, University of Oxford, UK.	9 Feb 2015
Séminaire "Variétés Rationnelles", Institut Henri Poincaré, Paris, France.	0.77.1.0047
• Insuffisance de l'obstruction de Brauer-Manin pour les surfaces d'Enriques (in French)	$10 \; \mathrm{Apr} \; 2015$
• Insufficiency of the Brauer-Manin obstruction for Enriques surfaces TCC Number Theory day, Imperial College, London, UK.	13 Apr 2015
Young Researchers in Mathematics 2015, University of Oxford, UK.	19 4 0015
• Obstructions: a dictionary	$19~\mathrm{Aug}~2015$
UW Number Theory Seminar, University of Washington, Seattle, USA.	10 NOV 2015
Dessins d'enfants seminar, University of Washington, Seattle, USA. • Iterating the algebraic étale-Brauer obstruction	10 Nov 2015
• Belyi's Theorem	12 Nov 2015
AGNT Seminar, Rice University, Houston, USA.	1, 1,0, 2010
Junior Number Theory seminar, University of Oxford, UK. • Iterating the algebraic étale-Brauer obstruction	17 Nov 2015
• Iterating the algebraic étale-Brauer obstruction	25 Jan 2016
Junior Number Theory seminar, University of Oxford, UK.	
Modular methods for Diophantine equations	25 Apr 2016
• Iterating the algebraic étale-Brauer obstruction Leibniz Universität Hannover, Hannover, Germany.	23 May 2016
GAeL XXIV, Nesin Mathematics Village, Turkey.	
• Obstructions to the existence of rational points on Enriques surfaces	13 Jun 2016
• Iterating the algebraic étale-Brauer obstruction Linfoot seminar, Bristol University, UK.	12 Oct 2010
Number Theory Seminar, University of Manchester, UK.	12 Oct 2016
• Iterating the algebraic étale-Brauer obstruction	27 Oct 2016
Algebraic Geometry and Representation Theory in Rome, Università Sapienza, Rome, Italy.	22 D 00 2 010
RTG Lectures in Arithmetic Geometry at Rice, Rice University, Houston, USA. • Iterare l'insieme di étale-Brauer algebrico (in Italian)	22 Dec 2016
• Iterating the algebraic étale-Brauer obstruction	17 Feb 2017
Pure Mathematics Seminar, University of Reading, UK.	
• When do rational points on varieties exist?	15 Mar 2017

Lastitut Hami Dainaani Daina Rama	
Institut Henri Poincaré, Paris, France.	4 9 Apr 2016
• Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday) University of Warwick, UK.	4–8 Apr 2016
• Sage Days 71: Explicit p-adic methods in number theory	20–24 Mar 2016
University of Oxford, UK.	20-24 Mai 2010
Oxford Cryptography Day	17 Mar 2016
University of Oxford, UK.	17 1/1/2010
Western Algebraic Geometry Symposium	17–18 Oct 2015
University of Washington, Seattle, USA.	11 10 000 2010
• LMS-CMI summer school on Diophantine Equations	15–19 Sep 2015
Wales, UK.	10 10 Sep 2 010
• Young Researchers in Mathematics 2015	17–20 Aug 2015
University of Oxford, UK.	1, 201148 2010
• Rational Points 2015	28 Jun – 5 Jul 2015
Franken-Akademie Schloss Schney, Schney, Germany.	
• Rational Points/ Pontos Racionais	25–29 May 2015
IMPA, Rio de Janeiro, Brazil.	v
• Elliptic Curves, Modular Forms and Iwasawa Theory	25-27 Mar 2015
In honour of J Coates' 70th Birthday, University of Cambridge, UK.	
• Arizona Winter School 2015: Arithmetic and Higher-Dimensional Varieties	14-18 Mar 2015
The Southwest Center for Arithmetic Geometry, University of Arizona, USA.	
• Algebraic Geometry and Representation Theory in Rome	$18-19 \ \mathrm{Dec} \ 2014$
Università Roma 3, Rome, Italy.	
• Comptage d'objets arithmétiques (rangs des courbes elliptiques)	10–14 Nov 2014
CRM, Université de Montréal, Canada.	
• Analytic Number Theory	29 Sep - 3 Oct 2014
Clay Research Conference and Workshops, University of Oxford, UK.	
• Bounded Gaps Between Primes	22-26 Sep 2014
LMS-CMI Research School, University of Oxford, UK.	
• Arithmetic of Hyperelliptic Curves	25 Aug - 5 Sep 2014
NATO Advanced Study Institute, Ohrid, FYROM.	
• Young Researchers in Mathematics 2014	30 Jun – 3 Jul 2014
University of Warwick, UK.	
• Women in Numbers 3	20-25 Apr 2014
Banff International Research Station, Canada.	10 11 E 1 001 t
• Model theory and its interactions with NT and arithmetic geometry	10-11 Feb 2014
MSRI, University of California, Berkeley, USA.	9 7 D 1 9014
• Introductory Workshop: Model Theory, Arithmetic Geometry and NT	3–7 Feb 2014
MSRI, University of California, Berkeley, USA.	29 Sep – 4 Oct 2013
• Number Theory and Physics Clay Research Conference and Workshops, University of Oxford, UK.	29 Sep – 4 Oct 2013
• Rational Points - Geometric, Analytic and Explicit Approaches	27–31 May 2013
EPSRC Warwick Number Theory Symposium, University of Warwick, UK.	21-31 May 2013
• Women in Mathematics	18–19 Apr 2013
Organised by the LMS. Newton Institute, University of Cambridge, UK.	10 10 Mpt 2010
• Foundations of Mathematics: What are they and what are they for?	10–12 Jul 2012
Department of Philosophy, University of Cambridge, UK.	10 12 0 41 2012
OTHER RESEARCH EXPERIENCES	

OTHER RESEARCH EXPERIENCES

\bullet Research Assistant in Numerical Analysis

 $Summer\ 2012$

DAMTP, University of Cambridge.

Undergraduate summer research project funded by MathWorks. Supervisors: Prof A Iserles, Dr C-B Schoenlieb, and Dr S J Cowley.

LANGUAGES

 \bullet Italian: Native speaker

English: FluentFrench: Fluent