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

E-mail: fbales@mpim-bonn.mpg.de https://fbalestrieri.github.io Webpage: Address: Nationality: Italian

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

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

2013 - 2017

Research Interests: Number Theory, Arithmetic Geometry

Supervisor: Prof E Victor Flynn

• MSc Mathematics and the Foundations of Computer Science, University of Oxford Result: Distinction

2012 - 2013

• BA (Hons) Mathematical Tripos, University of Cambridge

2009 - 2012

(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

7. Arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces with R. Newton.

Preprint (2018).

6. Arithmetic of rational points and zero-cycles on Kummer varieties

with R. Newton.

Preprint (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. Insufficiency 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)	2010–2011
• Jane Dora Archibald Prize, Newnham College (University of Cambridge)	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.	Michaelmas Term 2014
• B9b Algebraic Number Theory, TA. Third year course.	Hilary Term 2014
• C9.1b Elliptic Curves, TA. Fourth year/graduate course.	Hilary Term 2014
• C9.2a Analytic Number Theory, TA. Fourth year/graduate course.	Michaelmas Term 2013
	Michaelmas Term 2013
Teaching (University of Washington)	
	Michaelmas Term 2013 Fall Quarter 2015
Teaching (University of Washington) • Algebraic Number Theory, 2 lectures (substituting Prof Viray). Graduate course.	
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Teaching (University of Washington) • Algebraic Number Theory, 2 lectures (substituting Prof Viray). Graduate course. Committees and service • Reviewer for the Mathematical Reviews of the AMS.	Fall Quarter 2015 2017–
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 Teaching (University of Washington) Algebraic Number Theory, 2 lectures (substituting Prof Viray). Graduate course. Committees and service Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for the Tunisian Journal of 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 On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 Number Theory Seminar, IST Austria, Austria. 	Fall Quarter 2015 2017 2017 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ord. 2013–2017 **surfaces 18 Sep 2018
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Pure Mathematics Seminar, University of Reading, UK.	
• Iterating the algebraic étale-Brauer obstruction	17 Feb 2017
RTG Lectures in Arithmetic Geometry at Rice, Rice University, Houston, USA.	00 D 0016
• Iterare l'insieme di étale-Brauer algebrico (in Italian) Algebraic Geometry and Representation Theory in Rome, Università Sapienza, Rome, Italy.	22 Dec 2016
• Iterating the algebraic étale-Brauer obstruction	27 Oct 2016
Number Theory Seminar, University of Manchester, UK.	10.0
• Iterating the algebraic étale-Brauer obstruction Linfoot seminar, Bristol University, UK.	12 Oct 2016
• Obstructions to the existence of rational points on Enriques surfaces	13 Jun 2016
GAeL XXIV, Nesin Mathematics Village, Turkey.	
• Iterating the algebraic étale-Brauer obstruction	23 May 2016
Leibniz Universität Hannover, Hannover, Germany. • Modular methods for Diophantine equations	25 Apr 2016
Junior Number Theory seminar, University of Oxford, UK.	2 0 11 p 1 2 010
• Iterating the algebraic étale-Brauer obstruction	25 Jan 2016
Junior Number Theory seminar, University of Oxford, UK. • Iterating the algebraic étale-Brauer obstruction	17 Nov 2015
AGNT Seminar, Rice University, Houston, USA.	17 NOV 2015
• Belyi's Theorem	12 Nov 2015
Dessins d'enfants seminar, University of Washington, Seattle, USA.	40.37 0045
• Iterating the algebraic étale-Brauer obstruction UW Number Theory Seminar, University of Washington, Seattle, USA.	10 Nov 2015
• Obstructions: a dictionary	19 Aug 2015
Young Researchers in Mathematics 2015, University of Oxford, UK.	
• Insufficiency of the Brauer-Manin obstruction for Enriques surfaces	13 Apr 2015
TCC Number Theory day, Imperial College, London, UK. • Insuffisance de l'obstruction de Brauer-Manin pour les surfaces d'Enriques (in French)	10 Apr 2015
Séminaire "Variétés Rationnelles", Institut Henri Poincaré, Paris, France.	10 11p1 2010
• Obstruction sets and extensions of groups	9 Feb 2015
Junior Number Theory seminar, University of Oxford, UK. • Ranks of elliptic curves	24 Nov 2014
Junior Number Theory seminar, University of Oxford, UK.	24 NOV 2014
• How badly can the Hasse principle fail?	22 Oct 2014
Kinderseminar, University of Oxford, UK.	4.0 0014
• On the existence of rational points: an introduction to obstructions NATO ASI, Ohrid, FYROM.	4 Sep 2014
• Obstructions!	2 Jul 2014
Young Researchers in Mathematics 2014, University of Warwick, UK.	
• Obstructions to the Hasse principle Junior Number Theory seminar, University of Oxford, UK.	25 Nov 2013
Juliof Number Theory Seminar, University of Oxford, UK.	
Conferences and Workshops	
• Rational Points on Schiermonnikoog	2 - 6 Jul 2018
Schiermonnikoog, Netherlands. • XIV Giornate di Geometria Algebrica ed Argomenti Correlati	29 May – 1 Jun 2018
Università di Genova, Genova, Italy.	25 May 1 Juli 2010
• Rational Points 2017	2–8 Jul 2017
Franken-Akademie Schloss Schney, Schney, Germany.	17 10 Eab 2017
• RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA.	17–19 Feb 2017
• Algebraic Geometry and Representation Theory in Rome	22 Dec 2016
Università Sapienza, Rome, Italy.	or oo d oo o
• Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands.	25–30 Sep 2016
• GAeL XXIV	13–17 Jun 2016
Nesin Mathematics Village, Turkey.	00.35
• Fundamental groups in Arithmetic Geometry Institut Henri Poincaré, Paris, France.	26 May – 3 Jun 2016
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• Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday)	4–8 Apr 2016
University of Warwick, UK. • Sage Days 71: Explicit p-adic methods in number theory	20–24 Mar 2016
University of Oxford, UK.	20 24 Wai 2010
Oxford Cryptography Day	$17~\mathrm{Mar}~2016$
University of Oxford, UK.	
Western Algebraic Geometry Symposium	17–18 Oct 2015
University of Washington, Seattle, USA.	1F 10 C 001F
• LMS-CMI summer school on Diophantine Equations Wales, UK.	15–19 Sep 2015
• Young Researchers in Mathematics 2015	17–20 Aug 2015
University of Oxford, UK.	1, 20 Hug 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.	
• 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.	14-16 Mai 2016
• Algebraic Geometry and Representation Theory in Rome	18–19 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.	99. 96 C 9014
• Bounded Gaps Between Primes LMS-CMI Research School, University of Oxford, UK.	22–26 Sep 2014
• Arithmetic of Hyperelliptic Curves	25 Aug – 5 Sep 2014
NATO Advanced Study Institute, Ohrid, FYROM.	20 11dg
• 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.	40 44 T 1 0044
Model theory and its interactions with NT and arithmetic geometry MCDL Hairmonita of California, Barbalan HCA	10-11 Feb 2014
MSRI, University of California, Berkeley, USA. • Introductory Workshop: Model Theory, Arithmetic Geometry and NT	3–7 Feb 2014
MSRI, University of California, Berkeley, USA.	5-7 Feb 2014
• Number Theory and Physics	29 Sep – 4 Oct 2013
Clay Research Conference and Workshops, University of Oxford, UK.	•
• Rational Points - Geometric, Analytic and Explicit Approaches	27-31 May 2013
EPSRC Warwick Number Theory Symposium, University of Warwick, UK.	
• Women in Mathematics	18–19 Apr 2013
Organised by the LMS. Newton Institute, University of Cambridge, UK.	10–12 Jul 2012
• Foundations of Mathematics: What are they and what are they for? Department of Philosophy, University of Cambridge, UK.	10 ⁻ 12 Jul 2012
Department of I intosophy, Oniversity of Combinage, Off.	

OTHER RESEARCH EXPERIENCES

• Research Assistant in Numerical Analysis

 $Summer\ 2012$

 ${\bf DAMTP,\, University\,\, of\,\, Cambridge.}$

Undergraduate summer research project funded by MathWorks.

Supervisors: Prof A Iserles, Dr C-B Schoenlieb, and Dr S J Cowley.

Languages

• Italian: Native speaker

English: FluentFrench: Fluent