## 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

#### POSTDOC POSITIONS AND 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

## • University of Washington, Seattle, USA

Sep-Dec 2015

Visiting: Prof Bianca Viray

#### Papers 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.

Submitted (2018).

- 5. Brauer-Manin obstruction and families of generalised Châtelet surfaces over number fields Submitted (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 Lecturship, Pembroke College.	2016 – 2017
M1 Groups and group actions. First year course.	Trinity Term 2017
A.SO Group Theory. Second year.	Trinity Term 2017
A4 Integration. Second year course.	Hilary Term 2017
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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
Teaching (University of Washington)	
• Algebraic Number Theory, 2 lectures (substituting Prof Viray). Graduate course.	Fall Quarter 2015
COMMITTEES AND SERVICE	
• Reviewer for the Mathematical Reviews of the AMS.	2017-
	2011
	2017
• Peer-reviewer for the Tunisian Journal of Mathematics.	2017 2015–2016
<ul> <li>Peer-reviewer for the Tunisian Journal of Mathematics.</li> <li>Organiser of the Junior Number Theory seminar, University of Oxford.</li> </ul>	2015 – 2016
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• Modular methods for Diophantine equations Junior Number Theory seminar, University of Oxford, UK.	25 Apr 2016
• 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.	10 N 001F
• Belyi's Theorem  Dessins d'enfants seminar, University of Washington, Seattle, USA.	12 Nov 2015
• Iterating the algebraic étale-Brauer obstruction	10 Nov 2015
UW Number Theory Seminar, University of Washington, Seattle, USA.  • 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.	13 Apr 2015
• Insuffisance de l'obstruction de Brauer-Manin pour les surfaces d'Enriques (in French) Séminaire "Variétés Rationnelles", Institut Henri Poincaré, Paris, France.	10 Apr 2015
• 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.	
• How badly can the Hasse principle fail?  Kinderseminar, University of Oxford, UK.	22 Oct 2014
• On the existence of rational points: an introduction to obstructions	4 Sep 2014
NATO ASI, Ohrid, FYROM.  • 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
Conferences and Workshops	2 – 6 Jul 2018
Conferences and Workshops  • Rational Points on Schiermonnikoog Schiermonnikoog, Netherlands.	2 – 6 Jul 2018
Conferences and Workshops  • Rational Points on Schiermonnikoog Schiermonnikoog, Netherlands.  • XIV Giornate di Geometria Algebrica ed Argomenti Correlati	2 – 6 Jul 2018 29 May – 1 Jun 2018
<ul> <li>Conferences and Workshops</li> <li>Rational Points on Schiermonnikoog Schiermonnikoog, Netherlands.</li> <li>XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy.</li> <li>Rational Points 2017</li> </ul>	
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<ul> <li>CONFERENCES AND WORKSHOPS</li> <li>Rational Points on Schiermonnikoog Schiermonnikoog, Netherlands.</li> <li>XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy.</li> <li>Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany.</li> <li>RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA.</li> </ul>	29 May – 1 Jun 2018 2–8 Jul 2017 17–19 Feb 2017
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• Young Researchers in Mathematics 2015 University of Oxford, UK.	17–20 Aug 2015
• Rational Points 2015	28 Jun – 5 Jul 2015
Franken-Akademie Schloss Schney, Schney, Germany.	20 Juli 9 Juli 2019
• Rational Points/ Pontos Racionais	25–29 May 2015
IMPA, Rio de Janeiro, Brazil.	20 20 May 2010
• Elliptic Curves, Modular Forms and Iwasawa Theory	25-27  Mar  2015
In honour of J Coates' 70th Birthday, University of Cambridge, UK.	20 21 1141 2010
• Arizona Winter School 2015: Arithmetic and Higher-Dimensional Varieties	14-18  Mar  2015
The Southwest Center for Arithmetic Geometry, University of Arizona, USA.	11 10 11141 2010
• Algebraic Geometry and Representation Theory in Rome	18–19 Dec 2014
Università Roma 3, Rome, Italy.	10 10 200 2011
• Comptage d'objets arithmétiques (rangs des courbes elliptiques)	10–14 Nov 2014
CRM, Université de Montréal, Canada.	10 11110, 2011
• 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.	P
• Arithmetic of Hyperelliptic Curves	25  Aug - 5  Sep  2014
NATO Advanced Study Institute, Ohrid, FYROM.	0 1
• 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.	-
• Model theory and its interactions with NT and arithmetic geometry	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.	
• 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.	
• Foundations of Mathematics: What are they and what are they for?	10–12 Jul 2012
Department of Philosophy, University of Cambridge, UK.	
OTHER RESEARCH EXPERIENCES	

Summer 2012

#### OTHER RESEARCH EXPERIENCES

## • Research Assistant in Numerical Analysis

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: Fluent • French: Fluent