## 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 • Marie Curie Fellow, IST Austria 2019-2021 • Post-Doc Fellow, Max-Planck-Institut für Mathematik 2017 - 2019Mentors: 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 - 2017Research Interests: Number Theory, Arithmetic Geometry Supervisor: Prof E Victor Flynn • MSc Mathematics and the Foundations of Computer Science, University of Oxford 2012 - 2013Result: Distinction • 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 Dec 2018 • Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach, Germany 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. Arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces (with R. Newton) Accepted for publication, IMRN (2018). 5. Brauer-Manin obstruction and families of generalised Châtelet surfaces over number fields International Journal of Number Theory 15 no. 2 (2019), 289–308. 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

# Acta Arithmetica 173 (2016), 151–181. 1. Insufficiency of the Brauer-Manin obstr

2. Obstruction sets and extensions of groups

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.

## FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

• Marie Skłodowska-Curie Actions Individual Fellowship, European Commission (€174000)	2019 – 2021
• IST Austria Fellowship, IST Austria (Declined)	2019 – 2021
• 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
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Teaching (University of Oxford)	
	2016 2017
• 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
Teaching (University of Washington)	
	Fall Quarter 2015
TEACHING (UNIVERSITY OF WASHINGTON)  • Algebraic Number Theory, 2 lectures (substituting Prof Viray). Graduate course.	Fall Quarter 2015
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• Categorie: un cambiamento di paradigma in matematica (in Italian) Seminario di Logica, Università Ca' Foscari, Venice, Italy.	7 Dec 2017
• Studying arithmetic properties of rational points on varieties	26 Oct 2017
MPI-Oberseminar, Max-Planck-Institut für Mathematik, Bonn, Germany.	40.35 2045
• Iterating the algebraic étale-Brauer obstruction  Number Theory Seminar, University of Cambridge, UK.	19 May 2017
• When do rational points on varieties exist?	15 Mar 2017
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.  • Iterare l'insieme di étale-Brauer algebrico (in Italian)	22 Dec 2016
Algebraic Geometry and Representation Theory in Rome, Università Sapienza, Rome, Italy.	22 Dec 2010
• 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.	95 A 901 <i>C</i>
• 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.  • Belyi's Theorem	12 Nov 2015
Dessins d'enfants seminar, University of Washington, Seattle, USA.	12 NOV 2019
• Iterating the algebraic étale-Brauer obstruction	10 Nov 2015
UW Number Theory Seminar, University of Washington, Seattle, USA.	
Obstructions: a dictionary  Noung Bessenshars in Mathematics 2015. University of Oxford, UK.	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.	10 11p1 2010
• Insuffisance de l'obstruction de Brauer-Manin pour les surfaces d'Enriques (in French)	$10~\mathrm{Apr}~2015$
Séminaire "Variétés Rationnelles", Institut Henri Poincaré, Paris, France.	0 D 1 001F
• Obstruction sets and extensions of groups Junior Number Theory seminar, University of Oxford, UK.	9 Feb 2015
• Ranks of elliptic curves	24 Nov 2014
Junior Number Theory seminar, University of Oxford, UK.	
• Obstructions!	2 Jul 2014
Young Researchers in Mathematics 2014, University of Warwick, UK.  • Obstructions to the Hasse principle	25 Nov 2013
Junior Number Theory seminar, University of Oxford, UK.	25 1107 2015
Conferences and Workshops	
• Rational Points 2019	14–20 Jul 2019
Franken-Akademie Schloss Schney, Schney, Germany.	22 24 Apr 2010
• Dutch Mathematical Congress Veldhoven, Netherlands.	23–24 Apr 2019
• À la redécouverte des points rationnels	15 Apr –12 Jul 2019
Institut Henri Poincaré, Paris, France.	
Rational Points on Schiermonnikoog  Schiermonnikoog  Netherlande	2 – 6 Jul 2018
Schiermonnikoog, Netherlands.  • XIV Giornate di Geometria Algebrica ed Argomenti Correlati	29 May – 1 Jun 2018
Università di Genova, Genova, Italy.	10 1.1.2.y 1 0 am 2010
• Rational Points 2017	2–8 Jul 2017
Franken-Akademie Schloss Schney, Schney, Germany.	17 10 E-1 0017
• RTG Lectures in Arithmetic Geometry at Rice	17–19 Feb 2017

Rice University, Houston, USA.  • Algebraic Geometry and Representation Theory in Rome	22 Dec 2016
Università Sapienza, Rome, Italy.	22 Dcc 2010
• Women In Numbers Europe 2	25-30  Sep  2016
Lorentz Center, Leiden, Netherlands.	
• GAeL XXIV	13–17 Jun 2016
Nesin Mathematics Village, Turkey.	2011 21 2010
• Fundamental groups in Arithmetic Geometry Institut Henri Poincaré, Paris, France.	26 May – 3 Jun 2016
• Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday)	4–8 Apr 2016
University of Warwick, UK.	4 0 Mpi 2010
• Sage Days 71: Explicit p-adic methods in number theory	20-24  Mar  2016
University of Oxford, UK.	
• Oxford Cryptography Day	17  Mar  2016
University of Oxford, UK.	45 40 0 + 2045
Western Algebraic Geometry Symposium  Heiner Grand H	17–18 Oct 2015
University of Washington, Seattle, USA.	15–19 Sep 2015
• 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, 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.	05 05 15 0015
• Elliptic Curves, Modular Forms and Iwasawa Theory  In honour of I Costos' 70th Birthday University of Combridge UV	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 10 Mai 2010
• 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 1148 0 500 2011
• 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	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.	3 7 FCD 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.  • Foundations of Mathematics: What are they and what are they for?	10–12 Jul 2012
Department of Philosophy, University of Cambridge, UK.	10 <sup>-</sup> 12 Jul 2012
Department of I interestly, entreisity of connectinge, etc.	

### 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: FluentFrench: Fluent

 $Summer\ 2012$