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

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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 Research Interests: Number Theory, Arithmetic Geometry Supervisor: Prof E Victor Flynn MSc Mathematics and the Foundations of Computer Science, University of Oxford Result: Distinction

(Upgraded to MA in 2016) Result: Class I (each year)

Academic Visits

\bullet University of Washington, Seattle, USA

Sep-Dec 2015

2009 - 2012

Visiting: Prof Bianca Viray

Papers and Preprints

• Arithmetic of rational points and zero-cycles on Kummer varieties with R. Newton.

• BA (Hons) Mathematical Tripos, University of Cambridge

 ${\bf Preprint.}$

- Brauer-Manin obstruction and families of generalised Châtelet surfaces over number fields Preprint.
- 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).

• Iterating the algebraic étale-Brauer set

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

• Obstruction sets and extensions of groups

Acta Arithmetica 173 (2016), 151–181.

 $\bullet \ \textit{Insufficiency of the Brauer-Manin obstruction for rational points on Enriques surfaces}$

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.

M1 Groups and group actions. First year course.

2016 – 2017

Trinity Term 2017

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A.SO Group Theory. Second year.	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). B3.4 Algebraic Number Theory, Class Tutor. Third year course. 	Trinity Term 2015 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 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
Co.2d Thaify he ivalided Theory, 111. Fourth year, graduate course.	Wilchaellias Tellii 2016
Teaching (University of Washington)	
	Fall Overton 2015
• 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-
• Peer-reviewer for the Tunisian Journal of Mathematics.	2017
• Organiser of the Junior Number Theory seminar, University of Oxford.	2015-2016
• Undergraduate admissions interviewer at New College, University of Oxford.	Michaelmas Term 2014
• Organiser of the Young Researchers in Mathematics 2015 conference, University of Oxford.	2013-2015
• Undergraduate admissions interviewer at New College, University of Oxford.	Michaelmas Term 2013
• Facilitator for the Good Practices Steering Group, Mathematical Institute, University of Oxfor	rd. 2013–2017
Talks	
• Sull'aritmetica dei punti razionali e degli zero-cicli sulle varietà di Kummer (in Italian)	TBA
XIV Giornate di Geometria Algebrica ed Argomenti Correlati, Università di Genova, Italy.	1111
• Arithmetic of rational points and 0-cycles of degree 1 on Kummer varieties	28 Mar 2018
• Arithmetic of rational points and 0-cycles of degree 1 on Kummer varieties Number Theory Lunch Seminar, Max-Planck-Institut für Mathematik, Bonn, Germany.	28 Mar 2018
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 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 	28 Mar 2018
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 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. Iterating the algebraic étale-Brauer obstruction 	28 Mar 2018 7 Dec 2017
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 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. Iterating the algebraic étale-Brauer obstruction Number Theory Seminar, University of Cambridge, UK. When do rational points on varieties exist? Pure Mathematics Seminar, University of Reading, UK. 	28 Mar 2018 7 Dec 2017 26 Oct 2017 19 May 2017 15 Mar 2017
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Modular methods for Diophantine equations The state of the state	25 Apr 2016
Junior Number Theory seminar, University of Oxford, UK. • 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.	
• Iterating the algebraic étale-Brauer obstruction UW Number Theory Seminar, University of Washington, Seattle, USA.	10 Nov 2015
• Obstructions: a dictionary Young Researchers in Mathematics 2015, University of Oxford, UK.	19 Aug 2015
• Insufficiency of the Brauer-Manin obstruction for Enriques surfaces	$13~\mathrm{Apr}~2015$
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. • 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 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	25 Nov 2013
Junior Number Theory seminar, University of Oxford, UK.	
Conferences and Workshops	
Rational Points on Schiermonnikoog Schiermonnikoog Netherlands	$2-6~\mathrm{Jul}~2018$
Schiermonnikoog, Netherlands. • XIV Giornate di Geometria Algebrica ed Argomenti Correlati	2 – 6 Jul 2018 29 May – 1 Jun 2018
Schiermonnikoog, Netherlands.	
Schiermonnikoog, Netherlands. • XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. • Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany.	29 May – 1 Jun 2018 2–8 Jul 2017
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. 	29 May – 1 Jun 2018 2–8 Jul 2017 17–19 Feb 2017
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome 	29 May – 1 Jun 2018 2–8 Jul 2017
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 	29 May – 1 Jun 2018 2–8 Jul 2017 17–19 Feb 2017
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. GAeL XXIV 	29 May – 1 Jun 2018 2–8 Jul 2017 17–19 Feb 2017 22 Dec 2016
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. 	29 May – 1 Jun 2018 2–8 Jul 2017 17–19 Feb 2017 22 Dec 2016 25–30 Sep 2016
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. GAeL XXIV Nesin Mathematics Village, Turkey. 	29 May – 1 Jun 2018 2–8 Jul 2017 17–19 Feb 2017 22 Dec 2016 25–30 Sep 2016 13–17 Jun 2016
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. GAeL XXIV Nesin Mathematics Village, Turkey. Fundamental groups in Arithmetic Geometry Institut Henri Poincaré, Paris, France. Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday) University of Warwick, UK. 	29 May - 1 Jun 2018 2-8 Jul 2017 17-19 Feb 2017 22 Dec 2016 25-30 Sep 2016 13-17 Jun 2016 26 May - 3 Jun 2016 4-8 Apr 2016
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. GAeL XXIV Nesin Mathematics Village, Turkey. Fundamental groups in Arithmetic Geometry Institut Henri Poincaré, Paris, France. Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday) University of Warwick, UK. Sage Days 71: Explicit p-adic methods in number theory University of Oxford, UK. 	29 May - 1 Jun 2018 2-8 Jul 2017 17-19 Feb 2017 22 Dec 2016 25-30 Sep 2016 13-17 Jun 2016 26 May - 3 Jun 2016 4-8 Apr 2016 20-24 Mar 2016
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. GAeL XXIV Nesin Mathematics Village, Turkey. Fundamental groups in Arithmetic Geometry Institut Henri Poincaré, Paris, France. Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday) University of Warwick, UK. Sage Days 71: Explicit p-adic methods in number theory 	29 May - 1 Jun 2018 2-8 Jul 2017 17-19 Feb 2017 22 Dec 2016 25-30 Sep 2016 13-17 Jun 2016 26 May - 3 Jun 2016 4-8 Apr 2016
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. GAeL XXIV Nesin Mathematics Village, Turkey. Fundamental groups in Arithmetic Geometry Institut Henri Poincaré, Paris, France. Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday) University of Warwick, UK. Sage Days 71: Explicit p-adic methods in number theory University of Oxford, UK. Oxford Cryptography Day University of Oxford, UK. Western Algebraic Geometry Symposium 	29 May - 1 Jun 2018 2-8 Jul 2017 17-19 Feb 2017 22 Dec 2016 25-30 Sep 2016 13-17 Jun 2016 26 May - 3 Jun 2016 4-8 Apr 2016 20-24 Mar 2016
 Schiermonnikoog, Netherlands. XIV Giornate di Geometria Algebrica ed Argomenti Correlati Università di Genova, Genova, Italy. Rational Points 2017 Franken-Akademie Schloss Schney, Schney, Germany. RTG Lectures in Arithmetic Geometry at Rice Rice University, Houston, USA. Algebraic Geometry and Representation Theory in Rome Università Sapienza, Rome, Italy. Women In Numbers Europe 2 Lorentz Center, Leiden, Netherlands. GAeL XXIV Nesin Mathematics Village, Turkey. Fundamental groups in Arithmetic Geometry Institut Henri Poincaré, Paris, France. Explicit Methods in Number Theory (in honour of John Cremona's 60th Birthday) University of Warwick, UK. Sage Days 71: Explicit p-adic methods in number theory University of Oxford, UK. Oxford Cryptography Day University of Oxford, UK. Western Algebraic Geometry Symposium University of Washington, Seattle, USA. LMS-CMI summer school on Diophantine Equations 	29 May - 1 Jun 2018 2-8 Jul 2017 17-19 Feb 2017 22 Dec 2016 25-30 Sep 2016 13-17 Jun 2016 26 May - 3 Jun 2016 4-8 Apr 2016 20-24 Mar 2016 17 Mar 2016
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Franken-Akademie Schloss Schney, Schney, Germany.	27 22 35 224
• Rational Points/ Pontos Racionais IMPA, Rio de Janeiro, Brazil.	25–29 May 2015
• Elliptic Curves, Modular Forms and Iwasawa Theory	25–27 Mar 2015
In honour of J Coates' 70th Birthday, University of Cambridge, UK.	20 21 Mai 2010
• 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 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.	20.1
• Young Researchers in Mathematics 2014	30 Jun – 3 Jul 2014
University of Warwick, UK. • Women in Numbers 3	20 27 4 2014
	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.	10-11 1 eb 2014
• Introductory Workshop: Model Theory, Arithmetic Geometry and NT	3–7 Feb 2014
MSRI, University of California, Berkeley, USA.	5 7 1 CD 2014
• Number Theory and Physics	29 Sep – 4 Oct 2013
Clay Research Conference and Workshops, University of Oxford, UK.	20 Sep 1 0 00 2010
• Rational Points - Geometric, Analytic and Explicit Approaches	27–31 May 2013
EPSRC Warwick Number Theory Symposium, University of Warwick, UK.	v
• 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? Department of Philosophy, University of Cambridge, UK.	10–12 Jul 2012
Department of I intosophy, on versity of Cambridge, Oil.	

 $Summer\ 2012$

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

 \bullet Italian: Native speaker

English: FluentFrench: Fluent