Francesca Balestrieri

E-mail: Webpage: Nationality:	fbalestrieri@aup.edu https://fbalestrieri.github.io Italian	
EMPLOYMENT		
• Marie Curie I	fessor, The American University of Paris Fellow, IST Austria	2020- 2019-2020
Mentor: Prof Tim Browning • Post-Doc Fellow, Max-Planck-Institut für Mathematik Mentor: Prof Yuri I Manin		2017–2019
• Stipendiary L	ecturer in Pure Mathematics, Pembroke College, University of Oxford tor, Oxford University Press	2016–2017 2015–2016
EDUCATION		
Courses taken:	lligence Professional Program, Stanford University XCS229i Machine Learning; XCS221 Artificial Intelligence: Principles and Techniques; rement Learning; XCS224N: Natural Language Processing with Deep Learning.	2020-2022
• Laurea Magis Result: 110/11	trale in Scienze Filosofiche, Università Ca' Foscari 0 cum laude	2018-2020
• DPhil in Num Research Interes	of Cecilia Rofena her Theory, University of Oxford sts: Number Theory, Arithmetic Geometry of E. Victor Flynn	2013–2017
Supervisor: Prof E Victor Flynn • MSc Mathematics and the Foundations of Computer Science, University of Oxford Result: Distinction		2012–2013
	fathematical Tripos, University of Cambridge (IA in 2016)	2009–2012
ACADEMIC VISIT	S	
	i Poincaré, Paris, France	Apr–Jul 2019
• Mathematisch	in the thematic trimester À la redécouverte des points rationnels nes Forschungsinstitut Oberwolfach, Oberwolfach, Germany with Prof Valentijn Karemaker	Dec 2018
_	Washington, Seattle, USA	Sep-Dec 2015
MATHEMATICAL :	Preprints and Published Articles	
	osed points on hypersurfaces Mathematische Nachrichten.	
(with J. Brand	nts on diagonal hypersurfaces les, M. Kaesberg, J. Ortmann, M. Pieropan, R. Winter) WINE IV: Research Directions in Number Theory.	
	stale-Brauer obstructions for 0-cycles	
• First-order th	eory of a field and its Inverse Galois Problem A. Shlapentokh)	
• Explicit unifo (with A. John	rm bounds for Brauer groups of singular K3 surfaces son, R. Newton) nstitut Fourier, 73 (2023) no. 2, pp. 567–607.	
	man-Horn for Kummer polynomials	

• Some remarks on strong approximation and applications to homogeneous spaces of linear algebraic

(with N. Rome)

Acta Arithmetica, 207 (2023), 315–350.

groups

Proceedings of the AMS, 151 (2023), 907–914.

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

International Mathematics Research Notices, 2021 no. 6 (2021), 4255–4279.

- Brauer-Manin obstruction and families of generalised Châtelet surfaces over number fields International Journal of Number Theory, 15 no. 2 (2019), 289–308.
- 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.

• 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.

• 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.

BOOKS

- F. Balestrieri, L. Balestrieri, **Tecnologie dell'Impero** (2024) Luiss University Press.
- F. Balestrieri, L. Balestrieri, Guerra Digitale (2019) Luiss University Press.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

• Junior Fellowship, Institut Mittag-Leffler (Declined)	Mar - Apr 2021
• Marie Skłodowska-Curie Actions Individual Fellowship, European Commission (€174000)	2019 – 2021
• IST Plus Fellowship, IST Austria (Declined)	2019 – 2021
• Post-Doctoral Fellowship, Max-Planck-Institut für Mathematik	2017 – 2019
• 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 (THE AMERICAN UNIVERSITY OF PARIS)

TEACHING (THE AMERICAN UNIVERSITY OF FARIS)	
• DS/MA1020 Applied Statistics I, Lecturer.	Spring 2024
• MA1030 Calculus I, Lecturer.	Spring 2024
• CS/MA3050 research and Writing in CS and Mathematics, Lecturer.	Fall 2023
• MA3005 Probability, Lecturer.	Fall 2023
• MA2041 Linear Algebra, Lecturer.	Fall 2023
• MA1005 Math for Life, Lecturer.	Summer 2023
• MA1020 Applied Statistics I, Lecturer.	Summer 2023
• MA2041 Linear Algebra, Lecturer.	Fall 2022
• MA1030 Calculus I, Lecturer.	Fall 2022
• Directed Studies in Linear Algebra, Lecturer.	Spring 2022
• MA1020 Applied Statistics I, Lecturer.	Spring 2022
• MA1030 Calculus I, Lecturer.	Spring 2022
• MA3005 Probability, Lecturer.	Fall 2021
• MA1099 Mathematics as structure and its limits, Lecturer.	Fall 2021
• MA1020 Applied Statistics I, Lecturer.	Spring 2021
• MA1030 Calculus I, Lecturer.	Spring 2021
• MA1005 Math for Life, Lecturer.	Fall 2020
• MA1020 Applied Statistics I, Lecturer.	Fall 2020

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
Traching (Hampromy of Waghington)	
TEACHING (UNIVERSITY OF WASHINGTON)	5 11 0 0 0 0 0 1
• Algebraic Number Theory, 2 lectures (substituting Prof Viray). Graduate course.	Fall Quarter 2015
Undergraduate students supervised (The American University of Paris)	
• Quin Kepler, A computational language sentiment analysis	2024
• Angelina Zagaynova, Counting 2×2 matrices with trace m modulo ℓ	2023
	2020
• Gideon Vicini. Ramsey theory and cycles	2022
• Gideon Vicini, Ramsey theory and cycles	2022
• Gideon Vicini, Ramsey theory and cycles Committees and Service	2022
Committees and service	
Committees and service • Member of the hiring committee for an Assistant Professor position, The American University	ty of Paris. 2022–2023
Committees and Service • Member of the hiring committee for an Assistant Professor position, The American University • Teaching and Learning Centre Fellow, The American University of Paris.	ty of Paris. 2022–2023 2021– 2017–
Committees and service • Member of the hiring committee for an Assistant Professor position, The American Universi • Teaching and Learning Centre Fellow, The American University of Paris. • Reviewer for the Mathematical Reviews of the AMS.	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions
 COMMITTEES AND SERVICE Member of the hiring committee for an Assistant Professor position, The American Universi Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Mathematics, Compositio Mathematics 	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions
 COMMITTEES AND SERVICE Member of the hiring committee for an Assistant Professor position, The American Universit Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Most the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Reviews 	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions
 COMMITTEES AND SERVICE Member of the hiring committee for an Assistant Professor position, The American Universit Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Most of the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Reviewed Paris 	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory.
 COMMITTEES AND SERVICE Member of the hiring committee for an Assistant Professor position, The American Universit Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Most of the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Reviewer of the Junior Number Theory seminar, University of Oxford. 	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016
 Committees and service Member of the hiring committee for an Assistant Professor position, The American University Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Most of the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Responsible of the Junior Number Theory seminar, University of Oxford. Undergraduate admissions interviewer at New College, University of Oxford. 	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014
 Committees and service Member of the hiring committee for an Assistant Professor position, The American Universit Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Most the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Responsible 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. 	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013
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 COMMITTEES AND SERVICE Member of the hiring committee for an Assistant Professor position, The American University of Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Mof the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Responsive 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. Invited Talks Descent and étale-Brauer obstructions for 0-cycles Séminaire "Variétés Rationnelles", Sorbonne Université, Paris, France. Descent and étale-Brauer obstructions for 0-cycles 	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017
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Committees and service Member of the hiring committee for an Assistant Professor position, The American University Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Composition of the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Responsive 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. Thought Talks Descent and étale-Brauer obstructions for 0-cycles Séminaire "Variétés Rationnelles", Sorbonne Université, Paris, France. Descent and étale-Brauer obstructions for 0-cycles Symposium on Arithmetic Geometry and its Applications, CIRM, Luminy, France. Descent and étale-Brauer obstructions for 0-cycles Number Theory Seminar, University of Groningen, The Netherlands. (Online)	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 10 Mar 2023 8 Feb 2023 2 Feb 2022
Committees and service Member of the hiring committee for an Assistant Professor position, The American University Teaching and Learning Centre Fellow, The American University of Paris. Reviewer for the Mathematical Reviews of the AMS. Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Composition of the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Resultance 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. Northed Talks Descent and étale-Brauer obstructions for 0-cycles Séminaire "Variétés Rationnelles", Sorbonne Université, Paris, France. Descent and étale-Brauer obstructions for 0-cycles Symposium on Arithmetic Geometry and its Applications, CIRM, Luminy, France. Descent and étale-Brauer obstructions for 0-cycles Number Theory Seminar, University of Groningen, The Netherlands. (Online) Uniform bounds and effectivity results for singular K3 surfaces Mittag-Leffler Seminar, KTH Royal Institute of Technology, Sweden. (Online)	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 10 Mar 2023 8 Feb 2023 2 Feb 2022 26 Apr 2021
Committees and service • Member of the hiring committee for an Assistant Professor position, The American Universit • Teaching and Learning Centre Fellow, The American University of Paris. • Reviewer for the Mathematical Reviews of the AMS. • Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Mof the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Responsive of the Junior Number Theory seminar, University of Oxford. • Organiser of the Junior Number Theory seminar, University of Oxford. • Undergraduate admissions interviewer at New College, University of Oxford. • Undergraduate admissions interviewer at New College, 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. • Descent and étale-Brauer obstructions for 0-cycles Séminaire "Variétés Rationnelles", Sorbonne Université, Paris, France. • Descent and étale-Brauer obstructions for 0-cycles Symposium on Arithmetic Geometry and its Applications, CIRM, Luminy, France. • Descent and étale-Brauer obstructions for 0-cycles Number Theory Seminar, University of Groningen, The Netherlands. (Online) • Uniform bounds and effectivity results for singular K3 surfaces Mittag-Leffler Seminar, KTH Royal Institute of Technology, Sweden. (Online) • The arithmetic of zero-cycles on products of K3 surfaces and Kummer varieties Vantage Math Seminar (Online)	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 ford. 2013–2017 10 Mar 2023 8 Feb 2023 2 Feb 2022 26 Apr 2021
Committees and service • Member of the hiring committee for an Assistant Professor position, The American Universit • Teaching and Learning Centre Fellow, The American University of Paris. • Reviewer for the Mathematical Reviews of the AMS. • Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Nof the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Reconstructions 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. **NVITED TALKS** • Descent and étale-Brauer obstructions for 0-cycles Séminaire "Variétés Rationnelles", Sorbonne Université, Paris, France. • Descent and étale-Brauer obstructions for 0-cycles Symposium on Arithmetic Geometry and its Applications, CIRM, Luminy, France. • Descent and étale-Brauer obstructions for 0-cycles Number Theory Seminar, University of Groningen, The Netherlands. (Online) • Uniform bounds and effectivity results for singular K3 surfaces Mittag-Leffler Seminar, KTH Royal Institute of Technology, Sweden. (Online) • The arithmetic of zero-cycles on products of K3 surfaces and Kummer varieties Vantage Math Seminar (Online) • Strong approximation for homogeneous spaces of linear algebraic groups WORKing Seminar (Online)	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 2013–2017 10 Mar 2023 8 Feb 2023 2 Feb 2022 26 Apr 2021 9 Mar 2021 25 Feb 2021
Committees and service • Member of the hiring committee for an Assistant Professor position, The American Universit • Teaching and Learning Centre Fellow, The American University of Paris. • Reviewer for the Mathematical Reviews of the AMS. • Peer-reviewer for Tunisian Journal of Mathematics, Advances in Mathematics, Compositio Mof the AMS, IMRN, Journal of Number Theory, Acta Arithmetica, Manuscripta Mathematica, Responsive of the Junior Number Theory seminar, University of Oxford. • Organiser of the Junior Number Theory seminar, University of Oxford. • Undergraduate admissions interviewer at New College, University of Oxford. • Undergraduate admissions interviewer at New College, 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. • Descent and étale-Brauer obstructions for 0-cycles Séminaire "Variétés Rationnelles", Sorbonne Université, Paris, France. • Descent and étale-Brauer obstructions for 0-cycles Symposium on Arithmetic Geometry and its Applications, CIRM, Luminy, France. • Descent and étale-Brauer obstructions for 0-cycles Number Theory Seminar, University of Groningen, The Netherlands. (Online) • Uniform bounds and effectivity results for singular K3 surfaces Mittag-Leffler Seminar, KTH Royal Institute of Technology, Sweden. (Online) • The arithmetic of zero-cycles on products of K3 surfaces and Kummer varieties Vantage Math Seminar (Online)	ty of Paris. 2022–2023 2021– 2017– Mathematica, Transactions esearch in Number Theory. 2015–2016 Michaelmas Term 2014 2013–2015 Michaelmas Term 2013 2013–2017 10 Mar 2023 8 Feb 2023 2 Feb 2022 26 Apr 2021 9 Mar 2021

Number Theory Seminar, University of Warwick, UK. (Online)	
• Strong approximation for homogeneous spaces of linear algebraic groups Séminaire Théorie des Nombres, Institut de Mathématiques de Bordeaux, France. (Online)	2 Oct 2020
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces Algebra and Geometry seminar, KTH Royal Institute of Technology, Sweden.	20 Nov 2019
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces "Reinventing rational points" seminar, Institut Henri Poincaré, France.	25 Apr 2019
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces Dutch Mathematical Congress 2019, Veldhoven, Netherlands.	23 Apr 2019
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces Number Theory Seminar, University of Pennsylvania, USA.	5 Apr 2019
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces Intercity Number Theory Seminar, Utrecht University, Netherlands.	15 Mar 2019
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces Groups, Arithmetic and Algebraic Geometry Seminar, EPFL, Switzerland.	14 Nov 2018
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces Number Theory Seminar, IST Austria, Austria.	18 Sep 2018
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces CAMS/MATH Seminar, American University of Beirut, Lebanon.	4 Sep 2018
• On the arithmetic of rational points and zero-cycles on products of Kummer varieties and K3 surfaces Rational Points on Schiermonnikoog, Netherlands.	2 Jul 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
• Categorie: un cambiamento di paradigma in matematica (in Italian)	7 Dec 2017
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.	26 Oct 2017
• Iterating the algebraic étale-Brauer obstruction	19 May 2017
Number Theory Seminar, University of Cambridge, UK.	15 Man 2017
• When do rational points on varieties exist? Pure Mathematics Seminar, University of Reading, UK.	15 Mar 2017
• 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)	$22~{\rm Dec}~2016$
Algebraic Geometry and Representation Theory in Rome, Università Sapienza, Rome, Italy.	_
• Iterating the algebraic étale-Brauer obstruction	27 Oct 2016
Number Theory Seminar, University of Manchester, UK.	10.0 + 0010
• 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.	10 0 am 2010
• Iterating the algebraic étale-Brauer obstruction	23 May 2016
Leibniz Universität Hannover, Hannover, Germany.	v
• Modular methods for Diophantine equations	$25~\mathrm{Apr}~2016$
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.	45.37
• 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.	10 N 2015
• Iterating the algebraic étale-Brauer obstruction LIW Number Theory Seminar University of Weshington Scottle USA	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.	10 1148 2010
• Insufficiency of the Brauer-Manin obstruction for Enriques surfaces 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)	10 Apr 2015
Séminaire "Variétés Rationnelles", Institut Henri Poincaré, Paris, France.	r ====

• Obstruction sets and extensions of groups	$9~{\rm Feb}~2015$
Junior Number Theory seminar, University of Oxford, UK.	04 N 0014
• Ranks of elliptic curves Junior Number Theory seminar, University of Oxford, UK.	24 Nov 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	
• SAGA Symposium on Arithmetic Geometry and its Applications	6 –10 Feb 2023
CIRM, Luminy, France.	0 =10 Feb 2025
• Women in Numbers Europe 4	29 Aug –2 Sep 2022
University of Utrecht, Utrecht, Netherlands.	
• Arithmetic Statistics and Local-Global Principles	20-24 Sep 2021
Erwin Schrödinger International Institute for Mathematics and Physics, Vienna, Austria.	14 20 Jul 2010
• Rational Points 2019 Franken-Akademie Schloss Schney, Schney, Germany.	14–20 Jul 2019
• Dutch Mathematical Congress	23–24 Apr 2019
Veldhoven, Netherlands.	1
• À la redécouverte des points rationnels	$15~{ m Apr}~-12~{ m Jul}~2019$
Institut Henri Poincaré, Paris, France.	0 0 1 1 0010
• Rational Points on Schiermonnikoog Schiermonnikoog, Netherlands.	2 - 6 Jul 2018
• XIV Giornate di Geometria Algebrica ed Argomenti Correlati	29 May – 1 Jun 2018
Università di Genova, Genova, Italy.	
• Rational Points 2017	2-8 Jul 2017
Franken-Akademie Schloss Schney, Schney, Germany.	45 40 51 0045
• 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 Dec 2010
• Women In Numbers Europe 2	25-30 Sep 2016
Lorentz Center, Leiden, Netherlands.	
• GAeL XXIV	13–17 Jun 2016
Nesin Mathematics Village, Turkey. • Fundamental groups in Arithmetic Geometry	26 May – 3 Jun 2016
Institut Henri Poincaré, Paris, France.	20 May - 5 Juli 2010
• 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. • Oxford Cryptography Day	17 Mar 2016
University of Oxford, UK.	17 Wai 2010
Western Algebraic Geometry Symposium	17–18 Oct 2015
University of Washington, Seattle, USA.	
• LMS-CMI summer school on Diophantine Equations	15-19 Sep 2015
Wales, UK.	17 20 1 2015
• 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.	
• Rational Points/ Pontos Racionais	25-29 May 2015
IMPA, Rio de Janeiro, Brazil.	05 05 M 0015
• Elliptic Curves, Modular Forms and Iwasawa Theory In honour of J Coates' 70th Birthday, University of Cambridge, UK.	25–27 Mar 2015
• 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.	
• 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.	

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: FluentFrench: Fluent

• Modern Standard Arabic: Intermediate