

Curriculum Vitae: Adam Morgan

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EMPLOYMENT

Mathematisches Forschungsinstitut Oberwolfach	Jan 2021-
Leibniz fellow	
MPIM Bonn	Oct 2019- Oct 2020
Postdoctoral fellow	
University of Glasgow	Oct 2018 - Sept 2019
Research Associate	
King's College London	Sept 2016 - Sept 2018
Research Associate	
University of Warwick	Oct 2015 - Aug 2016
Research Assistant	
Detica	June - Sept 2011
Intern (Programming and statistical modelling, primarily in SAS)	

EDUCATION

University of Bristol	
<i>PhD in Mathematics</i>	Oct 2012 - Sept 2015
Supervised by Professor Tim Dokchitser	
Clare College, University of Cambridge	
<i>MMath (Part III of the Mathematical Tripos)</i>	Oct 2011 - June 2012
Passed with Distinction	
<i>BA in Mathematics</i>	Oct 2008 - June 2011
First class each year	

GRANTS AND PRIZES

Faculty of Science Commendation for excellence in a doctoral thesis awarded by University of Bristol, 2015

EPSRC doctoral training grant, 2012 - 2016

Robert Greene cup for academic excellence awarded by Clare College, June 2012

Horne Prize for Physical Sciences awarded by Clare College, three consecutive years 2009-2011

Salters Horners advanced physics prizewinner 2008 (top mark in A-Level physics)

INVITED LECTURE COURSES

Four lecture course *Local arithmetic of curves and Jacobians* for *CMI-HIMR Summer school in Computational Number Theory*, University of Bristol, June, 2019.

Four lecture course *L-functions and the Birch and Swinnerton-Dyer conjecture* for the summer school *Curves, L-functions and Galois representations*, ICTP Trieste, September 2017.

SELECTED TALKS

Invariants of hyperelliptic curves over local fields, KTH Number Theory seminar, Stockholm, Feb 2020

Parity of Selmer ranks in quadratic twist families, Intercity seminar, Leiden, Feb 2020

Parity of Selmer ranks in quadratic twist families, Number theory seminar, MPIM Bonn, Dec 2019

Parity of Selmer ranks in quadratic twist families, Warwick Number Theory seminar, University of Warwick, June 2019

Class groups, Selmer groups and Cassels–Tate pairings, invited speaker at the conference *Enumerative Arithmetic and the Cohen–Lenstra Heuristics*, MPIM, Bonn, June 2019

Parity of Selmer ranks in quadratic twist families, London Number Theory seminar, University College London, January 2019

Parity of ranks of abelian varieties, Algebra seminar, University of Glasgow, November 2018

Parity of ranks of abelian varieties, contributed talk for the conference *Young Researchers in Algebraic Number Theory*, University of Sheffield, November 2018

Parity of 2-Selmer ranks of abelian varieties over quadratic extensions, contributed talk for the conference *Rational and Integral Points via Analytic and Geometric Methods*, CMO Oaxaca, June 2018

Parity of 2-Selmer ranks of abelian varieties over quadratic extensions, invited speaker at *Rational points in Bristol*, University of Bristol, February 2018

Parity of Selmer ranks in quadratic twist families, contributed talk for the conference *Curves and L-functions*, ICTP Trieste, September 2017

Parity of Selmer ranks in quadratic twist families, Number Theory seminar, University of Manchester, February 2017

Parity of Selmer ranks in quadratic twist families, Algebra seminar, University of Pennsylvania, November 2016

Parity of ranks of abelian varieties, Quebec–Vermont Number Theory seminar, October 2016

Parity of Selmer ranks in quadratic twist families, Number Theory seminar, University of Cambridge, September 2016

Parity of Selmer ranks in quadratic twist families, contributed talk for the conference *Arithmetic statistics and the Cohen–Lenstra heuristics*, University of Warwick, June 2016

2-Selmer parity for Jacobians of hyperelliptic curves over quadratic extensions, Geometry and Algebra seminar, Utrecht university, December 2015

2-Selmer parity for Jacobians of hyperelliptic curves over quadratic extensions, TCC Number Theory day, Imperial College London, April 2015

Parity of 2-Selmer ranks of hyperelliptic curves over quadratic extensions, contributed talk, CNTA XIII, Ottawa, June 2014

On Bhargava and Shankar’s work on the average rank of elliptic curves, Linfoot seminar, University of Bristol, February 2014

Parity of 2-Selmer ranks of hyperelliptic curves over quadratic extensions, University of Warwick Number Theory seminar, January 2014

Sheaves of modules, two talks for the TCC course ‘Algebraic Geometry for Number Theory’, October–December 2013

TEACHING AND PROJECT SUPERVISION

12 hour SMSTC lecture course *Galois cohomology and central simple algebras*, University of Glasgow, Jan-Mar 2019.

Supervisor for two MSci projects *Parametrization of rings of small rank* and *Composition of binary quadratic forms*, King's College London, June-Sept 2017

Linear algebra and geometry, teaching assistant, University of Bristol, 2013-2014

Analysis, teaching assistant, University of Bristol, 2013-2014

Group theory maths cafe, organiser, University of Bristol, May 2013

Maths 1A20 (introduction to calculus and analysis), teaching assistant, University of Bristol, 2012-2013.

ORGANISATIONAL ACTIVITIES

Organiser for the number theory study group *Average ranks of elliptic curves*, University of Warwick, Sept-Dec 2015.

SELECTED CONFERENCES ATTENDED

CMI-HIMR Summer School in Computational Number Theory, University of Bristol, June 2019

Enumerative Arithmetic and the Cohen–Lenstra Heuristics, MPIM, Bonn, June 2019

Arithmetic Geometry, Number Theory, and Computation, MIT, August 2018

Arithmetic of Curves, Workshop in Baskerville Hall, Wales, August 2018

Mathematics is a long conversation: a celebration of Barry Mazur, Harvard University, June 2018

Rational and Integral Points via Analytic and Geometric Methods, CMO Oaxaca, June 2018

Curves and L-functions, ICTP Trieste, September 2017

Perfectoid Spaces, Arizona winter school, March 2017

2016 Fields medal symposium, Fields Institute, Toronto, October 2016

Arithmetic statistics and the Cohen–Lenstra heuristics, University of Warwick, June 2016

Explicit methods in number theory, University of Warwick, April 2016

LMS-CMI Summer school on Diophantine Equations, Baskerville Hall, Hay-on-Wye, September 2015

Elliptic curves, modular forms and Iwasawa theory, University of Cambridge, March 2015

Arithmetic and higher dimensional varieties, Arizona winter school, March 2015

Counting arithmetic objects, Summer school, Université de Montréal, June-July 2014

CNTA XIII, Ottawa, June 2014

Arithmetic Statistics, Arizona winter school, March 2014

Young researchers in mathematics, University of Edinburgh, June 2013

Rational Points - Geometric, Analytic and Explicit Approaches, University of Warwick, May 2013

Iwasawa Theory and Galois Representations, University of Warwick, April 2013

Explicit Methods for Modular Forms, University of Warwick, March 2013

Selmer Groups, Descent and the Distribution of Ranks, University of Warwick, September 2012