

# Curriculum Vitae: Adam Morgan

## CONTACT INFORMATION

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## EMPLOYMENT

### MPIM Bonn

Oct 2019-

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

*PhD in Mathematics*

Oct 2012 - Sept 2015

Supervised by Professor Tim Dokchitser

### Clare College, University of Cambridge

*MMath (Part III of the Mathematical Tripos)*

Oct 2011 - June 2012

Passed with Distinction

*BA in Mathematics*

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.