

Barinder Singh Banwait

CONTACT INFORMATION	Mathematics Institute, University of Warwick Coventry CV4 7AL, UK http://www.warwick.ac.uk/~mariaz	0044-7507-748-086 B.S.Banwait@warwick.ac.uk
PERSONAL	Date and Place of Birth: 24/11/1986, Perivale, UK Nationality: British	
RESEARCH INTERESTS	Algebraic Number Theory, Elliptic Curves, Diophantine Equations, Rational Points on Varieties.	
EDUCATION	University of Warwick, UK Ph.D., Mathematics, <i>Expected: Autumn 2013</i> <ul style="list-style-type: none">• Thesis Title: <i>On some local-to-global phenomena for abelian varieties</i>• Advisor: Professor John Cremona University of Cambridge, UK M.Math., Mathematics (Part III), June 2009, Distinction B.A., Mathematics, June 2008, Class II, Division I	Jan 2010 – Present Oct 2005 – Jun 2009
PAPERS	1. “Tetrahedral Elliptic Curves and the local-to-global principle for isogenies” with J. Cremona. Preprint, arXiv: 1306.6818, June 2013.	
INVITED TALKS	<i>Tetrahedral Elliptic Curves and the local-to-global principle for isogenies</i> , Warwick Number Theory Seminar, Jun 2013 <i>Tetrahedral and Octahedral Elliptic Curves</i> , WaNDS Number Theory Seminar, Durham University, May 2013 (WaNDS stands for Warwick, Nottingham, Durham, Sheffield) <i>Tetrahedral Elliptic Curves and the local-to-global principle for isogenies</i> , Heilbronn Seminar, University of Bristol, April 2013 <i>On some local-to-global phenomena for abelian varieties</i> , British Mathematical Colloquium, Number Theory Track, University of Sheffield, March 2013 <i>On some local-to-global phenomena for abelian varieties</i> , Number Theory Seminar, University of Cambridge, February 2013 <i>Tetrahedral Elliptic Curves</i> , WaNDS Number Theory Seminar, Nottingham University, May 2012 (WaNDS stands for Warwick, Nottingham, Durham, Sheffield)	
TEACHING EXPERIENCE	<i>Supervisor, University of Warwick</i> A supervisor is assigned groups of 5 students. The supervisor marks the assignments of his/her students, meets the students twice a week for one hour each, and discusses the assignments and other material on the courses which the students are studying. <ul style="list-style-type: none">• First Year Supervisor Courses supervised: Analysis, Abstract and Linear Algebra, Differential Equations, Geometry and Motion• Second Year Supervisor Courses supervised: Complex Analysis, Rings and Modules, Geometry, PDEs	Oct 2012 – Apr 2013 Oct 2010 – Jun 2011

Teaching Assistant, University of Warwick

A teaching assistant holds a support class on the course for an hour each week, in which the assignment questions are discussed, as well as other questions the students may have. The assistant is also required to mark the assignment questions submitted by the students.

- Modular Forms Oct – Dec 2012
Lecturer: Mehmet Haluk Sengun
- Algebraic Number Theory Jan – Mar 2012
Lecturer: Johan Bosman
- Elliptic Curves Oct – Dec 2011
Lecturer: Lassina Dembélé
- Algebraic Number Theory Jan – Mar 2010
Lecturer: William Hart

Instructor, Linyi University, Linyi, Shandong, China

- Algebraic Number Theory Jul 2009
A summer school for the second year undergraduates at Linyi University was organised in 2009. Various students from Cambridge each organised an 8-hour lecture course of their choice, and held problems sessions on their courses each day for the two-week duration of the school.

STEP Mentor, University of Cambridge, UK

A STEP mentor is assigned a group of 10 A-level students holding a prospective offer to study Mathematics at Cambridge University. The mentor's role is to prepare the students for the STEP entrance examination, by organising classes and lessons on the STEP questions, and generally helping the students mathematically. This all takes place during a week in April each year. I was a STEP mentor in 2007, 2008 and 2009.

AWARDS	Engineering and Physical Sciences Research Council (EPSRC)	Jan, 2010
	Full funding for Ph.D. studies	
	Nuffield Trust	July, 2007
	Undergraduate Research Bursary, to conduct a summer research project Supervisor: Dr. Jon Bevan, University of Surrey	
LANGUAGES	English: Native German: Fluent Punjabi: Fluent	
REFEREES	Professor John Cremona Mathematics Institute, University of Warwick Coventry CV4 7AL, UK J.E.Cremona@warwick.ac.uk Dr. Tim Dokchitser Department of Mathematics, University Walk Bristol BS8 1TW, UK tim.dokchitser@bristol.ac.uk Professor John Coates DPMMS, Centre for Mathematical Sciences	

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