

CURRICULUM VITA FOR IMIN CHEN

Department of Mathematics
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PERSONAL INFORMATION

Born 8 January 1970. Canadian citizen.

EDUCATION

D. Phil. in Mathematics, University of Oxford, 1996. Supervisor: Bryan Birch.

B.Sc. in Computing Science and Mathematics, Queen's University, 1992.

EMPLOYMENT

Associate Professor (tenured). Department of Mathematics, Simon Fraser University. September 2006–present.

Assistant Professor (tenure-track). Department of Mathematics, Simon Fraser University. September 2000–September 2006.

Research Associate. Max-Planck-Institut-für-Mathematik. January–August 2000.

CICMA Postdoctoral Fellow. Department of Mathematics, Concordia and McGill Universities. September 1998–December 1999. Supervisor: Henri Darmon.

NSERC Postdoctoral Fellow. Department of Mathematics, UC Berkeley and McGill Universities. September 1996–August 1998. Supervisor: Henri Darmon and Andrew Ogg.

RESEARCH

General areas: Algebraic number theory, arithmetic geometry, representation theory.

Specific areas: Modular varieties, automorphic forms, Diophantine problems, Galois representations, elliptic curves, \mathbb{Q} -curves, function fields.

RESEARCH GRANTS

NSERC Discovery Grant. *Modular varieties and diophantine problems*, 2009–2014.

NSERC RTI Grant. *Arithmetic Geometry and Number Theory computing support*, 2005–2006.

NSERC Discovery Grant. *Arithmetic and geometry of modular curves*, 2004–2009.

NSERC Discovery Grant. *Galois representations and congruence primes*, 2000–2004.

PUBLICATIONS

* See www.math.sfu.ca/~ichen for updates.

14. Chen, Imin and Kiming, Ian and Rasmussen, Jonas B. On congruences mod p^m between eigenforms and their attached Galois representations. *J. Number Theory* 130 (2010) no. 3, 608–619.
13. Chen, Imin and Siksek, Samir. Perfect powers expressible as sums of cubes. *J. Algebra* 322 (2009), no. 3, 638–656.
12. Chen, Imin. On the equation $a^2 + b^{2p} = c^5$. *Acta Arith.* 143 (2010), 345–375.
11. Chen, Imin. On the equation $s^2 + y^{2p} = \alpha^3$, *Math. Comp.* 77 (2008), no. 262, 1223–1227.
10. Chen, Imin. A diophantine equation associated to $X_0(5)$, *LMS J. Comput. Math.* 8 (2005), 116–121.
9. Chen, Imin. Jacobians of modular curves associated to normalizers of Cartan subgroups of level p^n , *C. R. Math. Acad. Sci. Paris* 339 (2004), no. 3, 187–192.
8. Chen, Imin; Grabitz, Martin; and deSmit, Bart. Relations between jacobians of modular curves of level p^2 , 11 pages. Accepted 15 January 2003 by the *Journal Théorie des Nombres de Bordeaux*.
7. Chen, Imin; and Cummins, Chris. Elliptic curves with non-split mod 11 representation, *Math. Comp.* 73 (2004), no. 246, 869–880.
6. Chen, Imin. Surjectivity of mod l representations attached to elliptic curves and congruence primes. *Canadian Mathematical Bulletin*, v. 45, no. 3, 2002, pp. 337–348.
5. Chen, Imin. On relations between Jacobians of certain modular curves. *Journal of Algebra*, v. 231, 2000, pp. 414–448.
4. Chen, Imin. Elementary estimates for a certain type of Soto-Andrade sum. *Proc. Amer. Math. Soc.* 128, no. 7, 2000, pp. 1933–1939.

3. Chen, Imin. On Siegel's modular curve of level 5 and the class number one problem. *Journal of Number Theory*, v. 74, no. 2, 1999, pp. 278–297.
2. Chen, Imin. The Jacobians of non-split Cartan modular curves. *Proceedings of the London Mathematical Society* (3), v. 77, no. 1, 1998, pp. 1–38.
1. Chen, Imin; and Yui, Noriko. Singular values of Thompson series. In *Groups, difference sets, and the Monster* (Columbus, OH, 1993), pp. 255–326, Ohio State University Mathematics Research Institute Publications, 4, de Gruyter, Berlin, 1996.

TEACHING

Regular Teaching

- 2009-2 MATH 342-3 Elementary Number Theory
- 2009-1 MATH 440/740-3 Galois Theory
- 2009-1 MATH 320-3 Introduction to Analysis II
- 2008-2 MATH 342-3 Elementary Number Theory
- 2008-1 MATH 842-4 Algebraic Number Theory
- 2008-1 MATH 341-3 Algebra III: Groups
- 2007-2 MATH 242-3 Introduction to Analysis I
- 2007-1 MATH 440/740-3 Galois Theory
- 2006-1 MATH 339-3 Groups and Symmetry
- 2006-1 MATH 157-3 Calculus I for Social Sciences
- 2005-3 MATH 232-3 Elementary Linear Algebra
- 2005-1 MATH 424-3 Applications of Complex Analysis
- 2004-3 MATH 242-3 Introduction to Analysis I
- 2004-1 MATH 320-3 Advanced Calculus of One Variable
- 2003-3 MATH 817-4 Groups and Rings
- 2003-1 MATH 320-3 Advanced Calculus of One Variable
- 2003-1 MATH 440-3 Galois Theory
- 2002-3 MATH 814-4 Selected Topics in Algebra (Algebraic Geometry)

2002-1 MATH 814-4 Selected Topics in Algebra (Algebraic Number Theory)

2002-1 MATH 152-3 Calculus II

2001-3 MATH 151-3 Calculus I

2001-2 MATH 398-3 Selected Topics (Introduction to Cryptography)

2001-1 MATH 440-3 Galois Theory

Supplementary Teaching

2007-3 MATH 497-3 Directed Studies (Introduction to Algebraic Topology)

2005-3 MATH 895-4 Reading (Introduction to Representation Theory)

2003-1 MATH 895-4 Reading (Introduction to Drinfeld Modules)

2003-1 MATH 877-1 Supplementary Reading (Galois Theory)

2002-3 MATH 497-3 Directed Studies (Topology and Algebraic Topology)

2002-2 MATH 897-2 Advanced Seminar (Advanced Topics in Representation Theory)

2001-3 MATH 895-4 Reading (Introduction to Representation Theory)

Other Teaching

1999-3 MATH 316-3 Functions of a Complex Variable (McGill University)

1999-1 EMAT 232-3 Engineering Mathematics (Concordia University)

1998-3 MATH 133-3 Linear Algebra (McGill University)

1997-3 MATH 727-3 The Arithmetic of Modular Forms (McGill University)

ACADEMIC SERVICE

Zentralblatt Math Reviewer, 2006–present.

MathSci Mathematical Reviews Reviewer, 1999–present.

Journal Refereeing: *Acta Arithmetica* (2005), *Bulletin of the LMS* (2006), *Canadian Journal of Math.* (2004), *Canadian Math. Bulletin* (2005)(2006), *Experimental Math.* (2006), *International J. Number Theory* (2008)(2009), *IMRN* (2007), *J. of the LMS* (2002), *J. of Number Theory* (2002) (2003), *Math. Annalen* (2005), *Math. Comp.* (2010), *Math. Research Letters* (1999), *Manuscripta Math.* (2005), *Math. Zeitschrift* (2005), *NSERC Discovery Grants Program* (2005)(2007)(2010), *Proc. AMS* (2007).

ADMINISTRATIVE SERVICE

Departmental and University Administration

2009–2010 Computing Support Committee, Graduate Studies Committee.

2008–2009 Computing Support Committee, Graduate Studies Committee, MSc Examination Committee.

2007–2008 Graduate Studies Committee, MSc Examination Committee.

2006–2007 Graduate Studies Committee, MSc Examination Committee.

2005–2006 Graduate Studies Committee, MSc Examination Committee, Business Calculus Textbook and Syllabus Committee.

2004–2005 Graduate Studies Committee (co-chair), Graduate Admissions Committee (co-chair), Departmental Tenure and Promotions Committee, NSERC Adjudication Committee.

2003–2004 Graduate Studies Committee (co-chair), Graduate Admissions Committee (co-chair), NSERC Adjudication Committee.

2002–2003 Graduate Studies Committee (co-chair), Graduate Admissions Committee (co-chair), Course Offerings Review Committee, NSERC Adjudication Committee.

2001–2002 Graduate Studies Committee, Search Committee.

2000–2001 Graduate Admissions Committee, Library Committee.

Other Administration

CMS Electronic Services Committee (2007–2009)

CMS Board of Directors (2005–2009)

CMS Endowment Committee (2003–2006)

PIMS Steering Committee (2000–2004).

STUDENTS

MSc Graduate Students

5. MSc, 2009–present, James Ratcliffe.

4. MSc, 2007–2008, Eric Rinne (changed supervisor).

3. MSc, 2004–2006, Hesam Abbaspour.

2. MSc, 2002–2006, Lisa Redekop.

1. MSc, 2001–2003, Beth Powell.

PhD Graduate Students

1. PhD, 2003–2004, Hamid Hazari (transferred to John Hopkins).

Undergraduate Students

2. NSERC USRA, 2002, Isabelle Major.

1. NSERC USRA, 2001, John Wedgewood.