William A. Stein

Curriculum Vitae

| (617)308-0144 | · was@math.harvard.edu · http://modul | ar.fas.harvard.edu |
|---------------|--|--|
| Employment | Harvard University, Benjamin Peirce Assistant Professor, 2001–present. NSF Postdoctoral Fellowship, 2000–2001, 2003–2004. Defense consulting (see http://dssg.ida.org), 2002–2003. | |
| Education | University of California at Berkeley , Ph.D., May 2000, <i>Explicit approaches to modular abelian varieties.</i> | |
| Publications | Constructing Elements in Shafarevich-Tate Groups tives (19 pages), with N. Dummigan and M. Watki "Number theory and algebraic geometry—to Peter on his 75th birthday", Ed. M. Reid and A. Skorobog | of Modular Mo- ns, to appear in Swinnerton-Dyer atov. |
| | 16. Approximation of Infinite-Slope Modular Eigenforms Eigenforms (13 pages), with R. Coleman, to appear in ceedings. | By Finite-Slope the Dwork Pro- |
| | 15. $J_1(p)$ has connected fibers, with B. Conrad and B. pages), to appear in Documenta Mathematica. | Edifxhoven (70 |
| | 14. Shafarevich-Tate Groups of Nonsquare Order (12 pag the 2002 MCAV proceedings. | ges), to appear in |
| | 13. Visible Evidence for the Birch and Swinnerton-Dye Rank 0 Modular Abelian Varieties (30 pages), with appear in Mathematics of Computation. | r Conjecture for h A. Agashe, to |
| | 12. A Database of Elliptic Curves–First Report (10 pag proceedings, Sydney, Australia, 2002. | ges), in ANTS V |
| | Visibility of Shafarevich-Tate Groups of Abelian Var with A. Agashe, J. Number Theory, 97 (2002), no. 1 | <i>ieties</i> (19 pages), , 171–185. |
| | Transportable modular symbols (12 pages), with H. Comput. Math., 4 (2001), 170–181. | Verrill, LMS J. |
| | 9. Appendix to Lario and Schoof's Some computations and deformation rings (1 page), with A. Agashe, to a ment. Math. | with Hecke rings ppear in Experi- |
| | There are genus one curves over Q of every odd ind Reine Angew. Math. (Crelle's Journal). | dex (9 pages), J. |
| | Component groups of optimal quotients of Jacobians B. Conrad, , Math. Res. Lett., 8 (2001), no. 5-6, 745 | (20 pages), with 5–766. |
| | The field generated by the points of small prime or curve (7 pages), with L. Merel, Internat. Math. Re no. 20, 1075–1082. | ler on an elliptic s. Notices, 2001, |
| | 5. An introduction to computing modular forms using a (10 pages), to appear in an MSRI proceedings volum | modular symbols e. |

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| | Mod 5 approaches to modularity of (18 pages), with K. Buzzard, Pacifi 282. | d 5 approaches to modularity of icosahedral Galois representation pages), with K. Buzzard, Pacific J. Math, 203 (2002), no. 2, 265 | |
| | Lectures on Serre's conjectures (95 metic Algebraic Geometry, IAS/Pa 143–232. | pages), with K. A. Ribet, in Arith- ark City Math. Inst. Series, Vol. 9, | |
| | Component groups of quotients of Proceedings of the 4th Internation Netherlands, July 2–7, 2000, Spring | $f J_0(N)$ (9 pages), with D. Kohel, al Symposium (ANTS-IV), Leiden, ger, 2000. | |
| | Empirical evidence for the Birch and modular Jacobians of genus 2 cun F. Lep-révost, E. F. Schaefer, M. St 70 (2001), no. 236, 1675–1697. | nd Swinnerton-Dyer conjectures for rves (22 pages), with E. V. Flynn, oll, J. L. Wetherell, Math. of Comp. | |
| Books in progress | • Elementary Number Theory and Ellip contract for Springer-Verlag's UTM s | ptic Curves (250 page book), under eries. | |
| | • Lectures on Modular Forms and Galor with K. A. Ribet, intended for Spring | is Representations (200 page book), er-Verlag's Universitext series. | |
| Computation | Author of the modular forms and m (Three visits to Sydney, Australia to The Modular Forms Database: http://modular.fas.harvard.edu | or of the modular forms and modular symbols parts of MAGMA ee visits to Sydney, Australia to work with the MAGMA group.) Modular Forms Database: http://modular.fas.harvard.edu/Tables/. | |
| Equipment Grants | Each of the following grants provided substantial computing resources to many members of the department: Sun Education Grant (\$70K Sun Fire V480 server), 2003. 12 Processor Cluster (\$20K from W. R. Hearst III and Harvard), 2002. Vice Chancellor Besearch Grant (six-processor cluster), 1999. | | |
| Fellowships | NSF Postdoctoral Research Fellowshi Clay Mathematics Institute Liftoff Fe Two years support from competitive from competitive from the second s | Postdoctoral Research Fellowship, 2000–2001, 2003-2004. Mathematics Institute Liftoff Fellowship, Summer 2000. years support from competitive fellowships at Berkeley. | |
| Teaching | Harvard University Modular Abelian Varieties, graduate of Freshman Seminar on Elliptic Curves Elementary Number Theory, Fall 2001 Linear Algebra, Fall 2001 and Spring | course, Fall 2003. s, Spring 2003. 1 and 2002. 2002. | |

William A. Stein Curriculum Vitae was@math.harvard.edu (617)308-0144 http://modular.fas.harvard.edu · Harvard Modular Curves Seminar, 2000–2003. NSF Sponsored IAS/Park City Mathematics Institute • Teaching Assistant, Summer 1999. Led problem sessions and prepared notes for Ken Ribet's course on Serre's conjectures for advanced number theory graduate students. University of California at Berkeley · Curriculum Development, Fall 1997–Summer 1998. Developed curriculum materials and MATLAB software for workshop-based calculus and linear algebra courses at UC Berkeley. · Instructor, Summer 1997. Discrete Mathematics. Evaluation average: 6.1 out of 7. · Teaching Assistant, Fall 1995–Spring 1997. Northern Arizona University

 $\cdot\,$ Teaching, 1994–1995. Taught complete undergraduate courses on elementary combinatorics and algebra.

Personal 345 Harvard Street, #4D Cambridge, MA 02138 US Citizen, born in Santa Barbara, California on February 21, 1974. Phone: (617)308-0144

References

Professor Robert F. Coleman

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Professor Barry C. Mazur

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Professor Benedict Gross

Department of Mathematics Harvard University Cambridge, MA 02138 (617) 495-2172 gross@math.harvard.edu

Professor Kenneth A. Ribet

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