

Christelle Vincent

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Area of specialization

Number Theory: Modular forms, Modular curves (MSC 11, 14H)

Education

Ph.D. Mathematics, University of Wisconsin–Madison Advisor: Ken Ono	2006-2012
B.Sc. Mathematics (Honours), McGill University Minor: Humanistic Studies	2003-2006

Publications

Weierstrass points on the Drinfeld modular curve $X_0(\mathfrak{p})$ (30 pages, in preparation)

Drinfeld modular forms modulo \mathfrak{p} , Proceedings of the American Mathematical Society, Vol. 138 (12), 2010 pp. 4217–4229.

Some results on two conjectures of Schützenberger, (with M. Desgroseilliers, B. Larose and C. Malvenuto), Canadian Mathematical Bulletin, Vol. 53 (3), 2010 pp. 453–465.

Teaching at UW-Madison

Main Instructor

MATH 101: Intermediate Algebra (TA coordinator, 3 semesters)
MATH 130: Mathematics for Teaching: Numbers and Operations

Teaching Assistant

MATH 171: Calculus with Algebra and Trigonometry I
MATH 213: Calculus and Introduction to Differential Equations (2 semesters)
MATH 217: Calculus with Algebra and Trigonometry II
MATH 234: Calculus – Functions of Several Variables (2 semesters)
Wisconsin Emerging Scholars program
MATH 320: Linear Algebra and Differential Equations

Other

Member, Pre-Calculus Sequence Redesign Committee	2009-2012
Assistant, Research Experience for Undergraduate program	2010

Honors and Awards

UW–Madison Capstone Ph.D. Teaching Award (\$500)	2012
Fond québécois de la recherche sur la nature et les technologies Doctorate Fellowship (CAN\$20,000)	2010-2011
UW-Madison College of Letters and Science Teaching Fellow	2009
National Sciences and Engineering Research Council of Canada Doctorate Fellowship (CAN\$42,000)	2008-2010
Elizabeth S. Hirschfelder Scholarship (\$2,000)	2008
UW-Madison Department of Mathematics Graduate Teaching Award	2008
Mary Ellen Rudin Fellowship (\$1500)	2007
Fond québécois de la recherche sur la nature et les technologies Masters Fellowship (CAN\$30,000)	2006-2008

Conference and Seminar talks (non-local)

Special Session on Automorphic and Modular Forms University of Hawai'i at Manoa	March 2012
Colloquium Dartmouth College	November 2011
Number Theory Seminar Dartmouth College	November 2011
Special Session on Modular Forms, Elliptic Curves, and Related Topics AMS Sectional Meeting, Wake Forest University	September 2011
Palmetto Number Theory Series Emory University	September 2011
Algebra and Number Theory Seminar Georgia Institute of Technology	April 2011
Number Theory Seminar Emory University	April 2011
Automorphic Forms Workshop Oregon State University	March 2011
Midwest Number Theory Conference for Graduate Students VII University of Michigan at Ann Arbor	November 2010
Illinois Number Theory Conference University of Illinois at Urbana-Champaign	May 2010
Automorphic Forms Workshop University of Hawai'i at Manoa	March 2010
Number Theory and Mock Theta Functions SASTRA University, India	December 2009

Additional Conferences and Workshops Attended

Arizona Winter School: Stark-Heegner points Project with Henri Darmon and Victor Rotger	March 2011
Joint Mathematics Meetings New Orleans	January 2011
XIth meeting of the Canadian Number Theory Association Acadia University	July 2010
Workshop and Advanced Course on Drinfeld Modules and L -functions Centre de Recerca Matemàtica, Spain	April 2010
Midwest Number Theory Conference for Graduate Students VI University of Wisconsin – Madison	November 2009
Graduate Summer School: Arithmetic of L -functions Park City Mathematics Institute	July 2009
Arizona Winter School: Quadratic Forms University of Arizona	March 2009
Harvard-MIT Current Developments in Mathematics 2008 Harvard University	November 2008
CMI/MSRI Workshop: Modular Forms and Arithmetic Mathematical Sciences Research Institute	June-July 2008
Arizona Winter School: Special Functions and Transcendence Project with Matt Papanikolas	March 2008
Midwest Number Theory Conference for Graduate Students V University of Wisconsin – Madison	November 2007

Professional Service and Outreach

Organizer, Mega Math Meet (5 th and 6 th grade math competition)	2009-2011
Translator, Purple Comet Math Competition	2009-2011
Referee, The International Journal of Number Theory	2010
Member, Committee of Teaching Assistant Evaluations	2008-2010
Referee, The Ramanujan Journal	2009
Organizer, Midwest Number Theory Conference for Graduate Students V and VI	2007, 2009
Volunteer, AMS-NSF Outreach program “Who wants to be a mathematician?”	2008-2009

References

- Ken Ono, Asa Griggs Candler Prof. of Mathematics, Emory University (ono@mathcs.emory.edu)
- Jordan Ellenberg, Professor, University of Wisconsin – Madison (ellenber@math.wisc.edu)
- Henri Darmon, James McGill Professor, McGill University (darmon@math.mcgill.ca)
- Shirin Malekpour, University of Wisconsin – Madison (malekpou@math.wisc.edu)
(teaching recommendation)