

Cameron W. McLeman

CONTACT INFORMATION	Murchie Science Building University of Michigan - Flint 303 E. Kearsley St. Flint, MI 48502	Office: (810) 237 - 6689 e-mail: mclemanc@umflint.edu http://homepages.umflint.edu/~mclemanc Citizenship: Canada and United States
EDUCATION	Ph.D. in Mathematics from The University of Arizona. May, 2008. <ul style="list-style-type: none">• Thesis: <i>A Golod-Shafarevich Equality and p-Tower Groups</i>.• Advisor: Dr. William McCallum.• Ph.D. Minor in Linguistics. B.S. in Mathematics from Harvey Mudd College. June, 2002. <ul style="list-style-type: none">• Thesis: <i>p-adic Dynamics and Formal Groups</i>.• Advisor: Dr. Christopher Towse.	
ACADEMIC EMPLOYMENT	<i>Visiting Assistant Professor</i> , August 2010 - present. University of Michigan-Flint. Flint, Michigan. <ul style="list-style-type: none">• Courses taught: Modern Algebra, College Geometry, Theory of Functions of a Complex Variable, Number Theory, Calculus for Management and Social Sciences• Senior theses advised:<ul style="list-style-type: none">• Daniel Pinchock, <i>Odd Perfect Numbers</i>.• Michael Gear, <i>Pascal and Pappus via Bezout's Theorem</i>.• Nicholas Cotton, <i>Radial Distributions of Rational Numbers</i>. <i>Visiting Assistant Professor</i> , August 2008 - May 2010. Willamette University. Salem, Oregon. <ul style="list-style-type: none">• Courses taught: Contemporary Mathematics, Calculus, Multivariable Calculus, Discrete Mathematics, Differential Equations. <i>Graduate Associate/Assistant</i> , August 2002 - May 2008. The University of Arizona. Tucson, Arizona. <ul style="list-style-type: none">• Courses taught: College Algebra, Precalculus, Brief Calculus, Calculus I, Calculus II, Linear Algebra, Vector Calculus.• Undergraduate research supervised: <i>Arithmetic Derivatives and Cunningham Chains</i>.• Funded by NSF grants: Vertical Integration of Research and Education; Institute for Mathematics and Education; and Making Connections: Joint Analysis of School Mathematics Problems.	
PATENTS AND PUBLICATIONS	<i>Class Numbers via 2-Isogenies of Elliptic Curves</i> . To appear in the Bulletin of the London Mathematical Society (with C. Rasmussen). <i>Spectra of Coronae</i> . Linear Algebra and its Applications, Volume 435, no. 5, 2011. (with E. McNicholas) <i>Infinite Hilbert Class Field Towers from Galois Representations</i> . International Journal of Number Theory. 7 , No. 1, pp. 1-8. February, 2011. (with K. Joshi) <i>A Golod-Shafarevich Equality and p-Tower Groups</i> . Journal of Number Theory, Volume 129 , No. 11, November 2009, Pages 2808-2819. <i>Class Field Towers over Quadratic Imaginary Number Fields</i> . Annales des Sciences Mathématiques du Québec 32 , no 2, 199-209. 2008 <i>Automatic Threshold Setting for Quantitative Polymerase Chain Reaction</i> . U.S. Patent No. 71,188,030 B2. March 6, 2007. (with L. Ward, A. Jensen, J. Lyon, and B. Tysinger.)	

SERVICE ACTIVITIES	<ul style="list-style-type: none"> • <i>Advisor</i>, 2010-2011 UM-Flint Mathematics Problem Solving Seminar. • <i>Advisor</i>, 2009 and 2010 Willamette MCM Teams. • <i>Member</i>, PlanetMath Content Committee, 2007 - 2008. • <i>Graduate Student Representative</i>, Entry-Level Committee, 2007 - 2008. • <i>Co-founder and Organizer</i>, Mathematics Department Tea, 2006 - 2008. • <i>Co-founder and Organizer</i>, Arizona AAASK Graduate seminar, 2006 - 2008. • <i>Guest Lecturer</i>, Putnam exam preparation course, 2006. • <i>Organizer</i>, Mathematics Graduate Colloquium, 2004 - 2005. • <i>Instructor</i>, Southwest RIMS Middle School Workshop, 2003.
ACADEMIC HONORS AND AWARDS	<ul style="list-style-type: none"> • <i>VIGRE Fellowship</i>, NSF Vertical Integration of Research and Education The University of Arizona, 2002 - 2008 (24 months total). • <i>Outstanding Graduate Teaching Assistant Award</i>. Department of Mathematics, The University of Arizona, Spring 2007. • <i>Galileo Circle Scholar - Mathematics</i>, The University of Arizona, 2006. • <i>SIAM MCM Outstanding Accomplishment Award</i>. 1998.
SELECTED LECTURES	<ul style="list-style-type: none"> • <i>Infinite Hilbert Class Field Towers from a Single Ramified Prime</i>. 2011 Spring Eastern Sectional Meetings of the AMS. April, 2011. • <i>Towers of Restricted Ramification: Variations on a Theme</i>, University of Michigan, November, 2010. • <i>Class Numbers via 2-Isogenies of Elliptic Curves</i>, Midwest Number Theory Conference, November, 2010. • <i>Orange Packing a la Lucas</i>, Flint Mathematics Seminar, November, 2010. • <i>Massey Products and Linking Numbers for Number Fields</i>, Notre Dame, March, 2010. • <i>The Arithmetic Derivative</i>, University of Portland, November 2008. • <i>Arithmetic Topology</i>, Wesleyan University, October 2008. • <i>The Zassenhaus Filtration of Class Field Tower Groups</i>, Conference in Honour of John Labute, McGill University, November 2007. • <i>Dimension Subgroups of some Interesting Galois Groups</i>, Southwestern Group Theory Conference, The University of Arizona, October 2007. • <i>The Mathematics of English and the English of Mathematics</i>, Willamette University, March 2007. • <i>Elliptic Curve Cryptography</i>, (Inaugural) Interscience Colloquium, The University of Arizona, September 2006. • <i>Galois Cohomology I-IV</i>, Four-part guest lecture series in Dinesh Thakur's Algebraic Number Theory Course, The University of Arizona, February 2006. • <i>The Failure of Unique Factorization</i>, Claremont Colleges Algebra Seminar. October 2005. • <i>The Combinatorics of Newton Polytopes</i>, Arizona Winter School, Austin, Texas, March 2004. • <i>Improved Computer Software for the Teaching of Ordinary Differential Equations</i> Second International Conference on the Teaching of Mathematics, University of Crete in Hersonissos, Greece, July 2002. • <i>Hexagonal Packing and Other Real-World Phenomena</i>, Sixth SIAM Conference on Optimization, Atlanta, GA, May 1999.