Amy L. Feaver

Assistant Professor of Mathematics and Computing Science
The King's University, Edmonton, AB
amy.feaver@kingsu.ca • http://turing.kingsu.ca/∼feaver

Education

Ph.D., Mathematics, University of Colorado	May 2014
M.A., Mathematics, University of Colorado	December 2010
B.S., Mathematics, Rensselaer Polytechnic Institute	May 2007
Minor, Computer Science, Rensselaer Polytechnic Institute	May 2007
Spanish Immersion Program, Semester in Spain (Seville)	Spring 2007

Selected Publications

Imaginary Multiquadratic Fields of Class Number 1, Accepted for Publication *Journal of Number Theory*

Kneser-Hecke operators for codes over finite chain rings (with A. Haensch, J. Liu, G. Nebe), (2016) *Directions in Number Theory: Proceedings of the 2014 WIN3 Workshop*

Mahler measure of some singular K3-surfaces (with M.J. Bertin, J. Fuselier, M. Lalin, M. Manes), (2013) *Contemporary Mathematics* **606**, pp. 149-169.

Conference and Seminar Talks

Euclidean n-quadratic fields June 2016
Canadian Mathematical Society Summer Meeting, Session on Analytic number theory and Diophantine equations, University of Alberta, Edmonton, AB

Kneser-Hecke operators for codes over finite chain rings (Plenary Lecture) April 2016
Alberta number theory days, Banff International Research Station, Banff, AB

The Euclidean algorithm and class numbers of multiquadratic number fields February 2016
University of Hawaii, Honolulu, HI

Open source software January 2016
Faculty colloquium, The King's University, Edmonton, AB

Less vs. Fewer, and other mistakes in mathematical writing September 2015
Campus Alberta Writing Studies (CAWS) colloquium, The King's University, Edmonton, AB

Sage mathematics software and the Euclidean algorithm September 2015
Lethbridge number theory and combinatorics seminar, University of Lethbridge, AB

Euclid's algorithm in multiquadratic number fields June 2015
AMMCS-CAIMS congress, Wilfrid Laurier University, Waterloo, ON

A theorem on norm-Euclidean rings of integers May 2015
Alberta Math Dialogue, University of Lethbridge

Lattices, Haar measures, unipotent elements (joint with J. Medkova) June 2014
6th European Women in Mathematics Summer School: Apollonian Circle Packings, Institut Mittag-Leffler, Sweden

Norm-Euclidean multiquadratic fields April 2013
AMS Sectional Meeting, Special Session on Number Theory with a Focus on Diophantine Equations and Recurrence Sequences, University of Colorado

Mahler Measure of some $K3$-surfaces October 2012
AMS Sectional Meeting, University of Arizona

Mahler Measure of some $K3$-surfaces (joint with J. Fuselier, M. Manes) November 2011
Women in Numbers 2, Banff International Research Station

Graduate Student Seminars University of Colorado
Cohen-Lenstra heuristics April 2013
Mahler Measure February 2013
p-adic numbers March 2012
Distribution of prime numbers September 2010

Workshops

Summer School in Explicit Methods for Abelian Varieties, Calgary, AB June 2016
Sage Days 69: Women in Sage, San Diego, CA September 2015
Apollonian Circle Packings, Institut Mittag-Leffler June 2014
Women in Numbers 3, Banff International Research Station April 2014
Sage Days 50: Women in Sage July 2013
Arizona Winter School March 2012
Sage Days 35.5: Bug Days, Gordon College January 2012
Women in Numbers 2, Banff International Research Station November 2011
Sage Days 33: Women in Sage, Seattle, WA September 2011

Awards

AMS Travel Grant January 2014
grant for graduating PhD students, to attend the Joint Mathematics Meetings

Burton W. Jones Teaching Award May 2013
Department of Mathematics, University of Colorado

University Research Fellowship Summer 2011, 2012, 2013
Department of Mathematics, University of Colorado

AMS Travel Grant October 2012
graduate student travel grant to attend an AMS sectional meeting in Tucson, AZ

UGGS Travel Grant January 2012
United Government of Graduate Students at the University of Colorado, to attend the Joint Mathematics Meetings in 2012

Undergraduate Awards
National Science and Mathematics Access to Retain Talent Grant (SMART) 2005-2007
Emily Roebling Scholarship, Rensselaer Polytechnic Institute 2003-2007

Z. Baker, *The Structure of Multiquadratic Fields*   Summers 2015, 2016
    Funded by NSERC through an Undergraduate Student Research Award (USRA)

S. Shmakov, *ACMS/KCVS Website Development*   Summer 2016
    Created online science teaching and visualization resources, maintained and updated the ACMS
    website
    Funded by an Alberta STEP (Summer Temporary Employment Program) grant and the ACMS

D. Fountain, *ACMS Website Development*   Spring 2016
    Created a new online presence for the Association for Christians in the Mathematical Sciences
    (ACMS)

Teaching Experience

Assistant Professor, The King's University   July 2014-Present
    CMPT 250: Introduction to Computing Science
    CMPT 302: Data Structures
    CMPT/MATH 360: Discrete Mathematics
    CMPT/MATH 399: Cryptography
    CMPT/MATH 420: Numerical Analysis
    CMPT/MATH 430: Theory of Computing
    MATH 399: Reading Course in Mathematics (Abstract Algebra)
    CMPT 480/481: Computing Science Practicum I and II
    CMPT 496: Research in Computing Science

Course Coordinator, University of Colorado
    MATH 1110 and 1120: Spirit and Uses of Mathematics 1 and 2   Spring 2011, Fall 2012

Instructor, University of Colorado
    MATH 1300: Calculus 1   Summer 2008
    MATH 2300: Calculus 2   Spring 2009, Fall 2011
    MATH 1110: Spirit and Uses of Mathematics 1   Fall 2008, 2009, 2010, 2012
    MATH 1120: Spirit and Uses of Mathematics 2   Spring 2010, 2011, 2013
    MATH 1012: Quantitative Reasoning   Summer 2010

Teaching Assistant, University of Colorado   Fall 2007, Spring 2008, Spring 2011, Fall 2013

Undergraduate Mathematics Resource Center Tutor, University of Colorado   2007-Present

Pioneer Elementary School Lafayette, CO   Spring 2011
    worked with groups of K-4 math students in need of extra attention

The Family Learning Center Boulder, CO   Summer 2011
    ran the mathematics portion of the 6th-8th grade summer program for low-income students

The Johns Hopkins University Center For Talented Youth
    Instructor, Introduction To Robotics   Summer 2009
    Teaching Assistant, Inductive and Deductive Reasoning   Summer 2007

Professional Development

Computing: Sage (developer), LaTeX, Python, PARI/gp, C++, HTML, JavaScript

    AMS Short Course: Computing with Elliptic Curves Using Sage   January 2012

    wrote tutorial for the Sage L-series package (with L. Thompson, C. Williams)   September 2011

Graduate Teaching Program University of Colorado Boulder

    Graduate Teaching Certificate   May 2012

    GTP Fall Intensive Conference   August 2011

Professional Affiliations: Association for Women in Mathematics, American Mathematical Society, Canadian Mathematical Society, Association for Christians in the Mathematical Sciences

Service

Board Member, Association for Christians in the Mathematical Sciences   January 2015-Present

Mentor, Ladies Learning Code JQuery workshop   March 2015

Co-organizer, graduate student number theory problem sessions   Spring 2012

Mentor for first year graduate students   Fall 2010, Fall 2012, Spring 2013