Amy L. Feaver

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Education

Ph.D., Mathematics, University of Colorado	May 2014

Thesis Title: Euclid's Algorithm in Multiquadratic Fields

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

Experience

Contractor, Taku River Tlingit First Nation	01/2022 - present
Statistics Instructor, Yukon University	01/2023 - 05/2023
Data Science Instructor, Houghton University, NY	01/2023 - 05/2023
Visiting Assistant Professor, Gordon College	08/2021 - 12/2021
Assistant Professor, The King's University	07/2014 - 12/2020
Course Coordinator and Instructor, University of Colorado	08/2007 - 12/2013

Selected Publications

The size function for imaginary cyclic sextic fields (with T. Peng, H. Tran), accepted for publication, *Journal de Theorie des Numbers de Bordeaux*

Imaginary multiquadratic fields of class number 1, (2017) *Journal of Number Theory* **174**, pp. 93-117.

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.

Undergraduate Student Research Publications

Riddleson, C. **Generalized Fibonacci Sequences Under Modular Arithmetic**, *Rose-Hulman Undergraduate Mathematics Journal*
(Co-supervised with Dr. Ha Tran)

Baker, Z. **Properties and Calculations of Constructive Orderings of** $\mathbb{Z}/n\mathbb{Z}$, (2019) *Minnesota Journal of Undergraduate Mathematics* **4**

Baker, Z. **Integral Bases for Triquadratic Number Fields**, (2017) *Rose-Hulman Undergraduate Mathematics Journal* **Vol. 18, Ed. 2**, Article 7

The Euclidean Algorithm in Multiquadratic Fields, Parts I and II March 2019
AMS Sectional Meeting, Special Session on Algebraic Number Theory and Diophantine Equations, University of Hawaii, Honolulu, HI

Supprime Fibonacci Sequences December 2018
West Coast Number Theory, California State University, Chico, CA

Relating two definitions of Euclideanity November 2018
University of Calgary Number Theory Seminar, University of Calgary, Calgary, AB

Imaginary Multiquadratic Fields of Class Number 2^n May 2018
Alberta Number Theory Days, Banff International Research Station, Banff, AB

Sequenceable Groups December 2017
West Coast Number Theory, Pacific Grove, CA

Imaginary Multiquadratic Fields of Class Number 2^n November 2017
University of Colorado Number Theory Seminar, Boulder, CO

Imaginary Multiquadratic Fields of Class Number Dividing 32 August 2017
AMMCS, Wilfrid Laurier University, Waterloo, ON

Euclidean algorithms December 2016
West Coast Number Theory, Pacific Grove, CA

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, Lethbridge, AB

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

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

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

Alberta Number Theory Days, Virtual   May 2020, Sept. 2021

Visualizing Algebra and Number Theory, The Institute for Computational and Experimental
Research in Mathematics (ICERM) at Brown University, Providence, RI.   October 2019

Sage Days 103: Women in Sage, St. Louis, MO   August 2019
    Project Leader: Interactive Cryptography Resources in Sage

Summer School in Explicit Methods for Abelian Varieties, University of Calgary, Calgary, AB
                    June 2016

Sage Days 69: Women in Sage, San Diego, CA   September 2015

Apollonian Circle Packings, The Mittag-Leffler Institute, Djursholm, Sweden   June 2014

Women in Numbers 3, Banff International Research Station, Banff, AB   April 2014

Sage Days 50: Women in Sage, Seattle, WA   July 2013

Arizona Winter School, Tucson, AZ   March 2012

Sage Days 35.5: Bug Days, Gordon College, Wenham, MA   January 2012

Women in Numbers 2, Banff International Research Station, Banff, AB   November 2011

Sage Days 33: Women in Sage, Seattle, WA   September 2011

Instructor, Yukon University, Whitehorse, YT   Spring 2023, 2024
    MATH 200: Statistics for the Physical and Life Sciences

Instructor, Northern Lights College, Atlin, BC   Fall 2023
    Introduction to Computers
    Job Search Skills

Instructor, Houghton University, Houghton NY   Spring 2023
    DSCI 152: Data Science Fundamentals

Visiting Assistant Professor, Gordon College   Fall 2021
    CPS 101: Introduction to Computers
    CPS 121: Introduction to Programming

Assistant Professor, The King's University   July 2014-December 2020
    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
    CMPT 480/481: Computing Science Practica
    CMPT 496: Research in Computing Science and Mathematics
    MATH 499: Reading Courses in Mathematics

Course Coordinator and Instructor, University of Colorado
    MATH 1110 and 1120: Mathematics for Elementary Education I and II   Various semesters
    Standardized the syllabus, policies and exams, mentored other instructors teaching the course.

Instructor, University of Colorado
    MATH 1300: Calculus 1   Summer 2008
    MATH 2300: Calculus 2   Spring 2009, Fall 2011
    MATH 1012: Quantitative Reasoning   Summer 2010

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
    Created the Cryptography Interactive Page for the Sage Wiki (with E. Goedhart)   August 2019
    AMS Short Course: Computing with Elliptic Curves Using Sage   January 2012
    Wrote the 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: Diversity and Recruitment, Alberta Summer Mathematics Institute   2019 - 2020

Organizing Committee Member, Interdisciplinary Studies Conferences, The King's University
Organize topics and speakers for this two-day conference each semester   2016 - 2019

Co-organizer, Faculty Colloquia, The King's University   2014 - 2019

Co-organizer, Alberta Number Theory Days IX   March 2017

Board Member, Association for Christians in the Mathematical Sciences   2015-2017

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