MALCOLM RUPERT

Curriculum Vitae

School Address
Department of Mathematical Sciences
Clemson University
Clemson, SC, 29631
meruper@clemson.edu
webpages.uidaho.edu/mrupert

Permanent Address 3771 S. 172nd street Seatac, WA, 98188

EMPLOYMENT

Postdoctoral Fellow August 2017 – Present NSF Research Training Group in Coding, Cryptography, and Number Theory

Department of Mathematical Sciences, Clemson University, Clemson, SC

EDUCATION

Ph.D., Mathematics

May 2017

University of Idaho, Moscow, ID

THESIS - An Explicit Theta Lift from Hilbert Modular Forms to Siegel Paramodular Forms.

ADVISORS - J. Johnson-Leung & B. Roberts

M.S., Mathematics

May 2013

University of British Columbia, Vancouver, BC, Canada

THESIS - Expanding Erodős–Kac and The Selberg–Sathe to Beurling Primes

with Controlled Integer Counting Functions.

ADVISOR - G. Martin

B.S., Mathematics, Magna Cum Laude

Western Washington University, Bellingham, WA

June 2011

PUBLICATIONS

"Local Test Vectors for the Theta Lift from GSO(4) to GSp(4)", in preparation	2017
"An Explicit Theta Lift from Hilbert Modular Forms to Siegel Paramodular Forms.", Ph.D. Thesis	
"The Erdős-Kac Theorem for Beurling Primes" submitted to INTEGERS: Electronic Journal of Combinatorial Number Theory.	2016
w/ Harrison Chapman, "A Group-theoretic Approach to Human Solving Strategies in Sudoku" Colonial Academic Alliance Undergraduate Research Journal Volume 3 Article 3	2012

HONORS & AWARDS

College of Science Deans Graduate Award, University of Idaho	2017
Magna Cum Laude, Western Washington University	2011
Undergraduate Mathematics Fellow, Western Washington University	2008-2011
Excellence on the Putnam Exam, Western Washington University	2009,2010

2017

2016

2015

CONFERENCE ACTIVITY

Contributed Presentations

Thesis Defense, April 20

Algebra Seminar, April 19

Student Research Expo, November 13

Contributed Fresentations		
"Some Results on the Local Theta lift from GSO(4) to GSp(4)" PANTS XXIX, Clemson University, December 2-3 "An Explicit Theta Lift from Hilbert to Siegel Modular Forms" Automorphic Forms Workshop, East Tennessee State University, March 6-9 "An Explicit Theta Lift from Hilbert to Siegel Modular Forms" JMM, AMS Special Session on Minimal Integral Models of Algebraic Curves "Towards an Explicit Theta Lift from Hilbert to Siegel Modular Forms" Automorphic Forms Workshop, University of Michigan, March 2-5 "A Group-theoretic Approach to Human Solving Strategies in Sudoku", Joint Math Meetings, January 6-9 "A Group-theoretic Approach to Human Solving Strategies in Sudoku", Young Mathematicians Conference, August 27-29	2017 2015 2011 2010	
Workshop Participant		
	2015	
Sage Days 87, p-adics in Sage and the LMFDB, July 17-22	2017	
L-function and Modular Forms Database conference: Computational Representation Theory in Number Theory, July 27-31	2015	
Sage Days 62.25, May 23-27	2011	
NSF funded research on the Experimental study of modular forms and L-functions Universidad de la República, Montevideo, Uruguay, July 8-20	2014	
L-function and Modular Forms Database conference on Curves and Automorphic Forms, March 10-14		
NSF REU research on Gröbner bases and Sudoku James Madison University, Harrisonburg, VA, June - August	2010	
Attendee		
PANTS XXIX, Clemson University, December 2-3 PANTS XXVIII, University of Tennessee Knoxville, September 16-17 Arizona Winter School on Perfectoid Spaces, March 11-17 Joint Mathematics Meeting, Atlanta, January 4-7	2017	
Pacific Northwest Number Theory conference, Oregon State University, May 14-15	2016	
Arizona Winter School on Arithmetic and Higher-Dimensional Varieties, March 14-18	2015	
Arizona Winter School on Arithmetic Statistics, March 15-19 Pacific Northwest Number Theory conference, University of Washington, June 1-2	2014 2013	
Pacific Northwest Number Theory conference, University of Idaho, May 19-20	2013	
Combinatorics potlatch, Simon Fraser University, November 17 Riemann Zeta Functions Workshop, Simon Fraser University, November 3		
CAMPUS PRESENTATIONS		
Clemson University		
CCNT Seminar, September 4	2017	
University of Idaho Thesis Defense April 20	2017	

University of British Columbia

Graduate Student Seminar 2013

TEACHING EXPERIENCE

Clemson University

Math 410, Number Theory
Math 319, Introduction to Proof
Spring 2018

University of Idaho

Math 130, Finite Math	Fall 2016
Math 175, Calculus II	Spring 2016, Summer 2014
Math 330, Linear Algebra	Fall 2015
Math 275, Calculus III	Spring 2015
Math 170 recitations, Calculus I	Fall 2014, Fall 2013
Math 160 recitations, Business Calculus	Spring 2014
Mathematics Tutor	Fall 2013-Spring 2016

University of British Columbia

Math 1** Recitations, Differential Calculus, Fall 2011- Spring 2013 Mathematics Tutor

Western Washington University

Mathematics Fellow & Tutor Fall 2008-Spring 2011

UNIVERSITY SERVICE

Clemson University

MAA Special Session Coding Theory, Cryptography, and Number Theory, Co-organizer

Number Theory Meetings in the Southeast, National Science Foundation, Co-PI

2017

University of Idaho

Graduate and Professional Student Association Senator. Fall 2016-Spring 2017.

University of British Columbia

Math Learning Center Committee Co-Chair. Spring 2012-Spring 2013

PROFESSIONAL SKILLS

Experienced in Python, SAGE, LATEX, Mathematica, R, Unix. Some experience with MAGMA and Matlab.

REFERENCES

Jennifer Johnson–Leung, Ph.D. Associate Professor Department of Mathematics University of Idaho Moscow, Id, 83843 (208) 885-6258 jenfns@uidaho.edu

Brooks Roberts, Ph.D. Research Associate Professor Department of Mathematics University of Idaho Moscow, Id, 83843 (208) 885-6258 brooksr@uidaho.edu

Greg Martin, Ph.D.
Professor
Department of Mathematics
University of British Columbia
Room 121, 1984 Mathematics Road
Vancouver, BC V6T 1Z2
(604) 822-4371
gerg@math.ubc.ca

Christopher Williams, Ph.D. (Teaching Letter)
Department Chair Mathematics & Statistical Science and Professor
Department of Mathematics
University of Idaho
Moscow, Id, 83843
(208) 885-6742
chrisw@uidaho.edu