

MALCOLM RUPERT

Curriculum Vitae

School Address

Department of Mathematical Sciences
Clemson University
Clemson, SC, 29631
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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* June 2011
Western Washington University, Bellingham, WA

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” 2012
Colonial Academic Alliance Undergraduate Research Journal
Volume 3 Article 3

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

CONFERENCE ACTIVITY

Contributed Presentations

“Some Results on the Local Theta lift from $GSO(4)$ to $GSp(4)$ ” PANTS XXIX, Clemson University, December 2-3	2017
“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	2015
“A Group-theoretic Approach to Human Solving Strategies in Sudoku”, Joint Math Meetings, January 6-9	2011
“A Group-theoretic Approach to Human Solving Strategies in Sudoku”, Young Mathematicians Conference, August 27-29	2010

Workshop Participant

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	
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	2017
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	
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	2014
Pacific Northwest Number Theory conference, University of Washington, June 1-2	2013
Pacific Northwest Number Theory conference, University of Idaho, May 19-20	2012
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
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University of Idaho

Thesis Defense, April 20	2017
Algebra Seminar, April 19	2016
Student Research Expo, November 13	2015

University of British Columbia
Graduate Student Seminar

2013

TEACHING EXPERIENCE

Clemson University

Math 410, Number Theory
Math 319, Introduction to Proof

Fall 2017
Spring 2018

University of Idaho

Math 130, Finite Math
Math 175, Calculus II
Math 330, Linear Algebra
Math 275, Calculus III
Math 170 recitations, Calculus I
Math 160 recitations, Business Calculus
Mathematics Tutor

Fall 2016
Spring 2016, Summer 2014
Fall 2015
Spring 2015
Fall 2014, Fall 2013
Spring 2014
Fall 2013-Spring 2016

University of British Columbia

Math 1** Recitations, Differential Calculus,
Mathematics Tutor

Fall 2011- Spring 2013

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

March 2018
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

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Christopher Williams, Ph.D. (Teaching Letter)
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