

Department of Mathematics
University of Mary Washington
1301 College Avenue
Fredericksburg, VA 22401

Phone: (540) 654-1329 (office)
(XXX) XXX-XXXX (home)
E-mail: rhelmstu[at]umw<dot>edu
Web: people.umw.edu/~rhelmstu

CURRICULUM VITAE

RANDALL DOUGLAS HELMSTUTLER, PH.D.

Education

University of Virginia – Charlottesville, Virginia
Ph.D. in Mathematics
July 1999 to August 2004
Dissertation: *Quillen Equivalent Categories of Functors*
Dissertation advisor: Professor Nicholas J. Kuhn

University of Illinois – Urbana-Champaign, Illinois
M.S. in Mathematics
August 1996 to May 1998

Radford University – Radford, Virginia
B.S. in Mathematics and Statistics
August 1992 to May 1996

Employment

University of Mary Washington – Fredericksburg, Virginia
Assistant Professor of Mathematics
August 2005 to present

Washington and Lee University – Lexington, Virginia
Visiting Assistant Professor of Mathematics
July 2004 to July 2005

University of Virginia – Charlottesville, Virginia
Graduate Teaching Assistant
August 1999 to May 2004

Virginia Polytechnic Institute and State University – Blacksburg, Virginia
Instructor of Mathematics
January 1999 to May 1999

Radford University – Radford, Virginia
Instructor of Mathematics
August 1998 to December 1998

University of Illinois – Urbana-Champaign, Illinois
Graduate Teaching Assistant
August 1996 to August 1998

Publications

- “Model category extensions of the Pirashvili-Słomińska theorems,” submitted to *Journal of Homotopy and Related Structures*
- “The structure of endomorphism monoids in conjugate categories,” joint with Roberto Palomba (former UMW student), submitted to *International Journal of Algebra*

Professional Presentations

Opposite Ends of the Earth: Fun with the Borsuk-Ulam Theorem
March 23, 2009
James Madison University – Harrisonburg, Virginia
Department of Mathematics and Statistics Colloquium

The structure of endomorphism monoids in conjugate categories
January 8, 2008
San Diego, California
AMS-MAA Joint Mathematics Meetings

Million Dollar Math: Perelman, Poincaré, and the Million Dollar Solution
November 8, 2006
University of Mary Washington – Fredericksburg, Virginia
Public lecture, with Keith Mellinger

Vector Fields in the Linear Algebra Classroom
August 11, 2006
Knoxville, Tennessee
National meeting of the Mathematical Association of America

Vector Fields and Topology
April 28, 2006
Randolph-Macon College – Ashland, Virginia
Department of Mathematics Colloquium

Vector Calculus as Algebraic Topology
February 2, 2006
Longwood University – Farmville, Virginia
Department of Mathematics and Computer Science Colloquium

Homotopy Groups of Spheres: Past and Present
September 21, 2005
University of Mary Washington – Fredericksburg, Virginia
Department of Mathematics Colloquium

A Morita theory for stable model categories

November 18, 2004

Pennsylvania State University – Altoona, Pennsylvania

Topology and Geometry Seminar, University Park and Altoona campuses

Stable model categories and a theorem of Pirashvili

April 17, 2004

Rider University – Lawrenceville, New Jersey

Eastern section meeting of the American Mathematical Society

A stable version of a theorem of Pirashvili

April 24, 2003

University of Virginia – Charlottesville, Virginia

Department of Mathematics Topology Seminar

Equivalence of functor categories via idempotents

November 8, 2002

University of Virginia – Charlottesville, Virginia

Department of Mathematics Graduate Seminar

Trinkets on topological groups

October 6, 2000

University of Virginia – Charlottesville, Virginia

Department of Mathematics Graduate Seminar

Representable functors and the Yoneda lemma

February 18, 2000

University of Virginia – Charlottesville, Virginia

Department of Mathematics Graduate Seminar

Honors and Memberships

R. L. Moore Project NExT Fellow (New Experiences in Teaching) for 2005–2006

Recipient of departmental GTA Award for Excellence in Teaching at the University of Virginia (Spring 2004)

Member of the Mathematical Association of America (MAA) since 2003

Member of the American Mathematical Society (AMS) since 1996

Grants

Jepson Fellow for 2008–2009 academic year

Faculty Research Grant (UMW) for 2009–2010 to develop research in retracts in category theory

Professional Development Grant (UMW) for 2006–2007 to develop research in the representation theory of abelian categories

Six Supplemental Faculty Development Grants (UMW) for travel to various national conferences

Four UMW undergraduate research grants

Other Professional Activity

- Co-organizer of MD-DC-VA section meeting of the Mathematical Association of America, University of Mary Washington, April 17–18, 2009
- Judge for MAA Undergraduate Poster Session at the Joint Mathematics Meetings in Washington, DC, January 2009
- Moderator and judge for undergraduate paper session at the national meeting of the MAA, San Jose, California, August 2007
- Judge for MAA Undergraduate Poster Session at the Joint Mathematics Meetings in San Antonio, Texas, January 2006
- Organizer of departmental Graduate Seminar at the University of Virginia

Service

- Member of the Curriculum Committee, 2008–2009
- Chair of the search committee for tenure-track appointment in mathematics, 2007–2008
- Organized and evaluated departmental calculus placement exams, 2007–2008
- Department representative to the Faculty Senate, 2006–2008
- First-year advisor, 2007–2008
- Honors committee member for six students
- Reader for the Virginia Junior Academy of Science, Spring 2008
- Moderator for UMW Calculus Tournament, April 2007, April 2008, and April 2009
- Department representative at Showcase, March 2007, March 2008, and March 2009
- Established departmental L^AT_EX workshop on technical typesetting, 2007–2009
- Admissions committee for M.Ed. program in mathematics, July 2006
- Wrote *A Handbook for Mathematics Majors* with Keith Mellinger, Spring 2006
- Script consultant for PBS television show *Cyberchase*, 2006–2009
- Presentation evaluator for speaking intensive sections of MATH 115, 2005–2007, 2009
- Served on the department's career panel as part of Mathematics Awareness Month, March 21, 2006
- Conducted eight “Pizza and Problems” sessions for undergraduate majors with Keith Mellinger and Jangwoon Lee, 2005–2008
- Mathematics GRE exam review session for the Department of Psychology, October 20, 2005

Conferences and Workshops Attended

- MD-DC-VA section meeting of the MAA, the University of Mary Washington, Fredericksburg, Virginia, April 17–18, 2009
- AMS-MAA Joint Mathematics Meetings, Washington, DC, January 5–7, 2009
- MD-DC-VA section meeting of the MAA, Hood College, Frederick, Maryland, November 8, 2008
- Workshop on teaching First-Year Seminars, May 15–16, 2008
- AMS-MAA Joint Mathematics Meetings, San Diego, California, January 6–9, 2008
- Mathfest, the national meeting of the MAA, San Jose, California, August 3–5, 2007
- FSEM committee's workshop on teaching First-Year Seminars, May 18, 2007
- Speaking Center workshop on implementing group discussions, May 15, 2007
- Joint workshop with JMU on M.Ed. program in mathematics, October 7, 2006

Mathfest, the national meeting of the MAA, Knoxville, Tennessee, August 9–12, 2006
AMS-MAA Joint Mathematics Meetings, San Antonio, Texas, January 12–15, 2006
SUMS conference, James Madison University, Harrisonburg, Virginia, November 12, 2005
Writing Intensive Program Faculty Workshop, August 9, 2005
Mathfest, the national meeting of the MAA, Albuquerque, New Mexico, August 1–5, 2005
TIP Summer Institute on interdisciplinary teaching, July 28, 2005
AMS-MAA Joint Mathematics Meetings, Atlanta, Georgia, January 5–8, 2005
Eastern section meeting of the AMS, Lawrenceville, New Jersey, April 17–18, 2004
Southeastern section meeting of the AMS, Chapel Hill, North Carolina, October 24–25, 2003
AMS-MAA Joint Mathematics Meetings, Baltimore, Maryland, January 15–18, 2003

Teaching Experience at UMW

Finite Mathematics with Applications (MATH 110)
Calculus I (MATH 121)
Calculus II (MATH 122)
Multivariable Calculus (MATH 224)
Linear Algebra (MATH 300)
Abstract Algebra I (MATH 431)
Topology I (MATH 441)
Topology II (MATH 442)
Linear Algebra for Teachers (MAED 510)
Four independent studies in topology and homotopy theory
Two independent studies in advanced linear algebra
Independent study in category theory
Pirates, Liars & Pigeons: A Problem Solving Seminar (FSEM 100MM)