MATTHEW L. WRIGHT

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EDUCATION

University of Pennsylvania (Philadelphia, Pennsylvania) May 2011
Doctor of Philosophy in Mathematics
Thesis: *Hadwiger Integration of Definable Functionals*
Advisor: Robert Ghrist

Messiah College (Grantham, Pennsylvania) May 2006
Bachelor of Arts
Major in Mathematics and Computer Science, Minor in Spanish

EMPLOYMENT

Assistant Professor of Mathematics beginning in August 2011
Huntington University (Huntington, Indiana)

Math Mentor summer 2011
Center for Teaching and Learning, University of Pennsylvania

FELLOWSHIPS AND HONORS

Ben Franklin Fellowship, University of Pennsylvania 2006-2011
Penn Prize for Excellence in Teaching by Graduate Students April 2008
Good Teaching Award, Penn Math Department 2008
William Lowell Putnam Mathematics Exam
Scored 30 on the 2005 Putnam Exam (rank 256 nationally) 2005
Scored 31 on the 2004 Putnam Exam (rank 287 nationally) 2004
Messiah College Merit Award for the Junior Class Fall 2005

TEACHING EXPERIENCE

Instructor	Introduction to Calculus (Math 103, Penn)	Summer 2008
Teaching Assistant	Calculus II w/Probability & Matrices (Math 115, Penn)	Spring 2011
	Honors Calculus (Math 116, Penn)	Fall 2010
	Calculus III (Math 240, Penn)	Spring 2009
	Calculus II (Math 114, Penn)	Fall 2008
	Calculus I (Math 104, Penn)	Spring 2008
	Introduction to Calculus (Math 103, Penn)	Fall 2007
Tutor	Math Help Center (Penn)	Spring 2010
	Math Help Room (Messiah College)	2004-2006

PEDAGOGICAL TRAINING

Master Teaching Assistant (helped run Math Dept TA training program) 2008-2010
Teaching Assistant Training Program, Penn Math Department 2006-2007

RESEARCH INTERESTS

My current research focuses on integration of functionals with respect to the valuations known as intrinsic volumes. Such integrals are useful in applied topology, especially for problems that arise in the context of sensor networks. I am working to lift theorems from sets to functionals over sets. I am also interested in combinatorics, especially algorithms and generating functions.

PAPERS AND PREPRINTS

Hadwiger Integration (a work in progress) 2011
Pell Equations (undergrad honors project, unpublished) 2006

TALKS PRESENTED

Tulane University, Geometry and Topology Seminar
"Euler Integration, Generalizations, and Applications" April 2011
MAA EPaDel meeting
"Euler Integration and Applications" November 2010
Grad student combinatorics seminar (Penn)
"Flag Coefficients in Combinatorics and Geometry" March 2010
"Coalgebras and Bialgebras in Combinatorics" October 2009
Grad student pizza seminar (Penn)
"Euler Integration" September 2009
"Mathematics of Juggling" January 2007
Moravian College Student Math Conference
"Icosahedron Coloring Problem" 2005
"Cyclic Numbers" 2004

CONFERENCES ATTENDED

Joint Mathematics Meetings (New Orleans, LA) January 2011
Algebra and Topology: Methods, Computation, & Science (Münster, Germany) June 2010
Sensor Topology and Minimal Planning (Austin, TX) February 2010
Geometric & Topological Methods in Computer Science (Aalborg, Denmark) January 2010
Sensor Topology and Minimal Planning (Seattle WA) July 2009

PROFESSIONAL MEMBERSHIPS

American Mathematical Society
Mathematical Association of America
Association of Christians in the Mathematical Sciences

LANGUAGE AND COMPUTER SKILLS

English: complete fluency
Spanish: near fluency; studied in Quito, Ecuador for the Fall 2003 semester
Experience in Maple, Unix, Java, JavaScript, HTML, CSS, PHP, and MySQL

COMMUNITY SERVICE

Colombia outreach trips, Tenth Presbyterian Church	2009 and 2010
Angel Tree tutoring program for inner-city kids, Tenth Presbyterian Church	2007-2009
Weekly volunteer with middle-school math competition programs: MathCounts and Math Olympiad	2002-2005

REFERENCES

Robert Ghrist	thesis advisor	ghrist@math.upenn.edu	215-746-1929
Herman Gluck	teaching reference	gluck@math.upenn.edu	215-898-8470
Antonella Grassi	teaching reference	grassi@math.upenn.edu	215-898-7997
Michael Robinson	collaborator	robim@math.upenn.edu	215-898-6285
Yuliy Baryshnikov	collaborator	ymb@research.bell-labs.com	
Philip Ryken	former pastor	philip.ryken@wheaton.edu	630-752-5000