

Curriculum Vitae

David W. Shoenthal
Department of Mathematics and Computer Science
Appointed at: Assistant Professor

January 5, 2016
Appointed: August 10, 2004
Current Rank: Associate Professor

I. Educational and Employment Data

A. Academic Preparation

<u>Institution</u>	<u>Area of Study</u>	<u>Dates</u>	<u>Degree</u>
Pennsylvania State University	Mathematics	1998 – 2004	Ph.D.
Juniata College	Mathematics/Communications	1994 – 1998	Bachelor of Arts

B. Title – Doctoral Dissertation

Several Results Concerning Low-Dimensional Length Spaces. Ph.D. received August 2004.

C. Academic Employment

<u>Institution</u>	<u>Position</u>	<u>Dates</u>
Longwood University	Associate Professor of Mathematics, Department Chair	2010 – present
	Assistant Professor of Mathematics	2004 – 2010

D. Professional Memberships

Mathematical Association of America (MAA) November 2004 – present

II. Professional Growth

A. Professional Responsibilities

1. Department

	Activities
2004 – present	Started (with Dr. Lunsford) and Maintain (with Dr. Lunsford and Dr. Marmorstein) Mathematics/Computer Science Colloquium Series http://www.longwood.edu/mathematics/colloquium.htm

2005 - present	Started (with Drs. Lunsford and Poplin) and Maintain (with Dr. Poplin) a departmental Problem of the Month; prize sponsored by Pi Mu Epsilon http://www.longwood.edu/mathematics/problemofthemonth.htm
2005 - present	Local Coordinator for Virginia Tech Regional Math Competition
2006 – present	Local Coordinator for U.S. National Collegiate Problem Solving Competition
2010 – present	Chair of Department of Mathematics and Computer Science
2007	Assisted in drafting Quantitative Reasoning “value-added” competency assessment
2005	Collaborated with Drs. Emerson-Stonnell and Poplin to construct a Calculus pre-test

Course Development

Summer 2014	Developed (with Phillip Poplin) Math 171: Statistical Decision Making as an online course
Summer 2011	Developed Math 131: Mathematical Thinking as an online course
Summer 2010	Developed Math 164: Precalculus as an online course
Summer 2009	Developed Math 114: Consumer Mathematics as an online course
Summer 2008	Developed Math 181: Finite Math as an online course
Fall 2007	Developed Math 160: Integrated Calculus I and Math 260: Integrated Calculus II (one year sequence integrating precalculus and calculus topics to aid retention)

Student Advising/Mentorship

2005 - present	Advisor to students on program of study
Spring 2015	Honors enhancement special topics course: Math 390: Geometry & Billiards ❖ Student presented her work at Spring 2015 MAA MD-DC-VA Sectional meeting, winning third place in the Undergraduate Presentation competition
Fall 2012	Two Honors enhancements: one in Math 171 and another in Math 361.
2005 - 2012	Faculty Advisor to Virginia Epsilon Chapter of Pi Mu Epsilon
Spring 2009	Honors enhancement for 3 students in Math 300: A Transition to Advanced Mathematics
Spring 2008	Special topics Math 395: Differential Geometry – 1 student had honors enhancement

Fall 2006	Directed study Math 490: Introduction to Game Theory with 2 students ❖ Student presented his work at Spring 2007 MAA MD-DC-VA Sectional meeting, winning first prize at Undergraduate Poster Session; he also submitted an article in Spring 2008 to <i>Incite</i>
Spring 2006	Directed study Math 490: Geometric Topology with 2 students
2. <u>Region</u>	
2015 – 2016	MAA Mentor for an Early Career Mathematician (Assigned by national MAA committee to be an outside resource for a new faculty member at a different institution)
2015 – 2016	Past Section Chair for MD-DC-VA Section of the MAA (Assists New Section Chair with her/his duties and the transition to Section Chair, fulfilling tasks as requested)
2013 – 2015	Section Chair for MD-DC-VA Section of the MAA (Leads the development and enhancement of programs and activities to better serve section members, arranges for meeting sites and presides at the meetings of the Section and of the Executive Committee, appoints all committees as directed by the Section or the Executive Committee and may appoint such other committees as needed)
2012 – 2013	Section Chair-Elect for MD-DC-VA Section of the MAA (Assists Section Chair in whatever way necessary and to prepare to serve two-year term as next Section Chair starting 2013)
2008 – 2010	Program Chair for MD-DC-VA Section of the MAA (Responsible for arranging the program at each regular meeting of the section—speaker and workshop invitations, scheduling all invited and contributed talks and other activities, consulting with and managing local coordinators of the meeting)
2007 – 2008	Program Chair-Elect for MD-DC-VA Section of MAA (Duties include organizing the Undergraduate Conference at the Spring 2008 Sectional meeting, helping the Program Chair organize the Fall and Spring Sectional meetings)

B. Awards and Other Commendations

2015	Longwood Assessment Mini-Grant Program Award (with Leigh Lunsford and Phillip Poplin): “Analysis of the Quantitative Reasoning and Literacy Assessment at Longwood University as an Indicator for Success in Math 164 and Math 171”
2009	Recipient of American Democracy Grant for Fiscal Wake-Up Tour
2009	Winner: Junior Faculty Award
2005, 2008	Certificate of Appreciation – Longwood Athletic/Academic Banquet
2005	Chosen as 2005-2006 Exxon-Mobil Project NExT Fellow
2004	Chosen as 2006 MAA Section NExT Fellow

C. Conferences & Workshops

	Fall 2015 Sectional MAA meeting at St. Mary's College of Maryland ❖ <u>Past Section Chair</u>
2015	Shenandoah Undergraduate Mathematics and Statistics (SUMS) Conference at James Madison University (JMU) ❖ <u>Poster Judge</u> for Student Poster Competition Mathfest 2015 in Washington, D.C. Spring 2015 Sectional MAA meeting at Roanoke College ❖ <u>Section Chair</u>
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	Shenandoah Undergraduate Mathematics and Statistics (SUMS) Conference at James Madison University (JMU) ❖ <u>Poster Judge</u> for Student Poster Competition
	Academic Leadership Institute at Longwood University (LU)
2014	Teaching & Learning Institute at LU ❖ <u>Panelist</u> : "Transforming Our Students from Novice to Expert: Writing in the Disciplines Across the Academy" Spring 2014 Sectional MAA meeting at JMU ❖ <u>Section Chair</u>
	Joint Mathematics Meeting 2014 in Baltimore
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	Fall 2013 Sectional MAA meeting at LU & Hampden-Sydney College (HSC) ❖ <u>Section Chair</u> , <u>Local Co-Coordinator</u> of meeting
2013	SUMS Conference at JMU ❖ <u>Poster Judge</u> for Student Poster Competition Spring 2013 Sectional MAA meeting at Salisbury University ❖ <u>Section Chair-Elect</u>
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	Fall 2012 Sectional MAA meeting at Virginia Military Institute ❖ <u>Section Chair-Elect</u> , <u>Contributed Paper Session</u> : "Arms Race Example in Intro ODEs."
2012	SUMS Conference at JMU ❖ <u>Poster Judge</u> , <u>Fireball Judge</u> Spring 2012 Sectional MAA meeting at Stevenson University LU Assessment Conference
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2011	Fall 2011 Sectional MAA meeting at Christopher Newport University
	SUMS Conference at JMU <ul style="list-style-type: none">❖ <u>Gummybear Contest Assistant</u>
	Spring 2011 Sectional MAA meeting at Randolph-Macon College
	LU Assessment Conference
2010	SUMS Conference at JMU <ul style="list-style-type: none">❖ <u>Poster Judge</u> for Student Poster Competition
	Mathfest 2010 in Pittsburgh <ul style="list-style-type: none">❖ <u>MAA Contributed Paper Session</u>: "Student Success in Face-to-Face Versus Online Finite Mathematics Class."
	Spring 2010 Sectional MAA meeting at Virginia State University <ul style="list-style-type: none">❖ <u>Program Chair</u>
2009	Fall 2009 Sectional MAA meeting at Goucher College <ul style="list-style-type: none">❖ <u>Program Chair</u>
	SUMS Conference at JMU <ul style="list-style-type: none">❖ <u>Poster Judge</u> for Student Poster Competition
	Spring 2009 Sectional MAA meeting at the University of Mary Washington <ul style="list-style-type: none">❖ <u>Program Chair</u>
	Joint Mathematics Meetings 2009 in Washington D.C. <ul style="list-style-type: none">❖ <u>MAA Contributed Paper Session</u>: "A Geometric Complexity Result in a Certain Length Space."
2008	Fall 2008 Sectional MAA meeting at Hood College <ul style="list-style-type: none">❖ <u>Program Chair</u>
	SUMS Conference at JMU <ul style="list-style-type: none">❖ <u>Poster Judge</u> for Student Poster Competition
	Awarded a LOTI grant and attended May 2008 LOTI training for the development of a fully online course
	LU Workshop on Integrating Curricula in the Mathematical, Biological, and Environmental Sciences
	Spring 2008 Sectional MAA meeting at EMU/JMU <ul style="list-style-type: none">❖ <u>Program Chair-Elect</u>

2007	Fall 2007 Sectional MAA meeting at Anne Arundel Community College ❖ <u>Program Chair-Elect</u>
	Participated in MAA PREP (PProfessional Enhancement Program) Workshop <i>Calculus: Online and Interactive</i>
2006	Fall 2006 Sectional MAA meeting at LU & HSC ❖ <u>Local Co-Coordinator</u>
	Mathfest 2006 in Knoxville ❖ <u>Co-Organizer</u> for Panel: “Getting Tenure without Going Insane.” ❖ <u>Project NExT participant</u>
	Spring 2006 Sectional MAA meeting at Loyola College ❖ <u>Judge</u> : Undergraduate Student Papers ❖ <u>Talk</u> : “Naïve Calculus: The Chain Rule.” Contributed Paper Session ❖ <u>Section NExT participant</u>
	Joint Mathematical Meetings 2006 in ❖ <u>Project NExT participant</u>
2005	Fall 2005 Sectional MAA meeting at Montgomery College ❖ <u>Contributing panelist</u> : Session: Classroom Project Use ❖ <u>Section NExT participant</u>
	Mathfest 2005 in Albuquerque ❖ <u>Project NExT participant</u>
	Spring 2005 Sectional MAA meeting at UVA ❖ <u>Section NExT participant</u>
2004	Fall 2004 Sectional MAA meeting at Morgan State University ❖ <u>Section NExT participant</u>

III. Scholarly Activities

A. Research

2013, 2014	Referee for <i>PRIMUS</i> .
2011	Referee for <i>Involve</i> .
2008	Referee for <i>Journal of Integer Sequences</i> .

B. Publications

- 2015 D. Shoenthal. Invited submission to Puzzle Master section. *Virginia Mathematics Teacher*. Volume 42, No. 1 (Fall 2015).
- 2015 D. Shoenthal. "Improving Project Success in an Online Mathematics Course." *Journal of Humanistic Mathematics*. Volume 5, Issue 1 (2015), 105-120.
- 2014 D. Shoenthal. "Fourier Series as a Unifying Topic in Calculus II." *PRIMUS*. Volume 24, Issue 4 (2014), 294-300.
- 2011 D. Shoenthal. "A Four Color Problem." *MAA Focus*. December 2011/January 2012, 19.
- 2008 M. Leigh Lunsford, M. Pendergrass, P. Poplin, and D. Shoenthal. "The Naïve Chain Rule." *The College Mathematics Journal*. Volume 39, Number 2 (March 2008), 142-145.
- 2008 D. Burago, S. Ivanov, and D. Shoenthal. "Two Counter-Examples in Low Dimensional Length Geometry." *St. Petersburg Mathematical Journal*. 19 (2008), 33-43.
- 2004 Yu. D. Burago and D. Shoenthal. "Metric Geometry." *New Analytic and Geometric Methods in Inverse Problems* (eds. K. Bingham, Y. Kurylev, E. Somersalo). Springer-Verlag.

C. Invited Talks

- October 2014 "The Root of the Problem." Randolph-Macon College.
- October 2005 "Defining Length." University of Mary Washington.
- April 2004 "Generalizing Length." Susquehanna University.

IV. Service to University/Local Community

- 2005 – present Started (with Anna Cox) and Maintain (with Wade Edwards) General Education Film Series
- 2005 – present Lector – St. Theresa's Catholic Church
- 2010 – present Coordinator, Quantitative Reasoning Competency Assessment
- 2010 – present Academic Chairs Council (née Academic Affairs Council)
Presiding Chair (2013 – present)
- 2014 – present Member – Academic Core Curriculum Committee
- 2015 – present Board member – Prince Edward Public School Endowment

2013 – 2015	Member – Ad-Hoc Senate Committee on Student Evaluations
2014 – 2015	Member – Provost/VPAA Search Committee
2010 – 2014	Member – Nursing Hiring Committee
2012 – 2014	Chair – SACS Faculty Compliance Team
2013 – 2014	Member – CCCAS Dean’s Search Committee
2010 – 2012	Member – Cook-Cole Awards Committee
2012	Member – Hiring Committee for OAIR Research Analyst
2007 – 2011	Faculty Senator
2009 – 2011	Chair – Parish Council, St. Theresa’s Catholic Church
2010 – 2011	Member – SACS Committee 2.8
2011	Judge – Campus Movie Fest for Longwood
2006 – 2010	Chair – Mathematics and Computer Science Curriculum Committee
2006 – 2010	Member – Department Awards Committee
2009 – 2010	Chair – CAS Curriculum Committee and Member of EPC
2009 – 2010	Member – Faculty Senate Executive Committee and Presidential Advisory Committee
2009 – 2010	Member – Ad-Hoc Committee on Faculty Senate Self-Assessment
2010	Moderator – SGA Presidential Debate
2010	Panelist in CAFÉ discussion on Wiki usage in classes
2006 – 2009	Member – CAS Curriculum Committee
2007 – 2009	Member – Parish Council, St. Theresa’s Catholic Church
2007 – 2009	Member – Local Planning Commission, representing St. Theresa’s Church
2008 – 2009	Chair – Faculty Awards Committee
2009	Co-organized (with Anna Cox) the Fall Simkins Lecture (Fiscal Wake-Up Tour)
2009	Member – Blackboard 8 Pilot Test Group
2008	Member – Ad Hoc Committee on Student Commencement Participation

2006 – 2008	Member – Faculty Awards Committee
2007 – 2008	Volunteer: Judge for FBLA Regional Public Speaking Contest
2005 – 2006	Member – Mathematics and Computer Science Curriculum Committee
2005 – 2006	Member - Faculty Development and Research Committee