

# David W. Shoenthal

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Curriculum Vitae

November 17, 2023

## 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>
	Professor of Mathematics, Associate Provost/Associate Vice President for Academic Affairs	Jul 2018 – present
	Professor of Mathematics, Associate Provost for Accreditation and Compliance	Jan 2018 – Jun 2018
Longwood University	Professor of Mathematics, Department Chair	2016 – 2017
	Associate Professor of Mathematics, Department Chair	2010 – 2016
	Assistant Professor of Mathematics	2004 – 2010

### D. Professional Memberships

Mathematical Association of America (MAA) 2004 – present

## II. Professional Growth

### A. Professional Responsibilities

#### 1. Department

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Activities

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2005 - 2020	Co-started and Co-maintained a departmental Problem of the Month; prize sponsored by Pi Mu Epsilon
2004 - 2018	Co-started and Co-maintained a Mathematics/Computer Science Colloquium Series
2005 - 2017	Local Coordinator for Virginia Tech Regional Math Competition
2006 - 2017	Local Coordinator for U.S. National Collegiate Problem Solving Competition
2010 - 2017	Chair of Department of Mathematics and Computer Science
2007	Assisted in drafting Quantitative Reasoning “value-added” competency assessment

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Course Development

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Summer 2014	Co-developed 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)

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Student Advising/Mentorship

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2005 - 2023	Advisor to students on program of study
Spring 2017	One Directed Study [Algebraic Coding Theory]; one supervised internship [Math 392: Loan Analysis]; and one Honors enhancement [Math 301: Applied Statistics]
Fall 2016	Two Directed Studies [Advanced Dynamical Systems   Mathematics and Sociology]
Spring 2016	Honors enhancement [Math 362: Differential Equations]
Fall 2015	Honors enhancement [Math 335: Advanced Euclidean Geometry]
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 [Math 171: Statistical Decision Making   Math 361: Multivariable Calculus]
2005 - 2012	Faculty Advisor to Virginia Epsilon Chapter of Pi Mu Epsilon
Spring 2009	Honors enhancement for 3 students [Math 300: A Transition to Advanced

Mathematics]

Spring 2008 Special topics Math 395: Differential Geometry – 1 student had honors enhancement

Fall 2006 Directed study [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 *Incite*

Spring 2006 Directed study [Math 490: Geometric Topology] with 2 students

## 2. Region

2015 – 2018 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)

2017 – 2018 Nominating Committee for MD-DC-VA Section of the MAA (Found nominees for six regional officer positions)

2015 – 2016 Past Section Chair for MD-DC-VA Section of the MAA (Assisted 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 (Led the development and enhancement of programs and activities to better serve section members, arranged for meeting sites and presided at the meetings of the Section and of the Executive Committee, appointed all committees as directed by the Section or the Executive Committee and other committees as needed)

2012 – 2013 Section Chair-Elect for MD-DC-VA Section of the MAA (Assisted Section Chair as needed and prepared to serve two-year term as next Section Chair)

2008 – 2010 Program Chair for MD-DC-VA Section of the MAA (Determined 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 (Organized the Undergraduate Conference at the Spring 2008 Sectional meeting, helped the Program Chair organize the Fall and Spring Sectional meetings)

## B. Awards and Other Commendations

2020 Co-winner: Sister Helen Christensen Service Award from MD-DC-VA Section of the MAA (with M.L. Lunsford and P.L. Poplin)

2017 Recipient: Alpha Lambda Delta Favorite Professor Award

2016 Outstanding First Year Student Advocate

2015	Longwood Assessment Mini-Grant Program Award (with M.L. Lunsford and P. L. 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: 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. Professional Conferences & Workshops

2022	SACSCOC Annual Meeting in Atlanta
	Virginia Regional Accreditation Symposium (virtual)
2021	SACSCOC Annual Meeting (virtual)
	Virginia Regional Accreditation Symposium (virtual)
2020	SACSCOC Annual Meeting (virtual)
	Fall 2020 Sectional MAA Meeting (virtual)
2019	SACSCOC Annual Meeting in Houston ❖ Annual Meeting Planning Committee
	Fall 2019 Sectional MAA Meeting at Norfolk State University
	Shenandoah Undergraduate Mathematics and Statistics (SUMS) Conference at James Madison University (JMU) ❖ <u>Poster Judge</u> for Student Poster Competition
2018	Spring 2019 Sectional MAA Meeting at Hood College and Frederick Community College
	SACSCOC Annual Meeting in New Orleans ❖ Evaluator Training
	Fall 2018 Sectional MAA meeting at University of Mary Washington
2018	SUMS Conference at JMU ❖ <u>Poster Judge</u> for Student Poster Competition
	Spring 2018 Sectional MAA meeting at Washington & Lee and Virginia Military Institute

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SACSCOC Annual Meeting in Dallas

Fall 2017 Sectional MAA meeting at Christopher Newport University

Virginia Regional Accreditation Symposium at Virginia Commonwealth University

2017

SUMS Conference at JMU

- ❖ Poster Judge for Student Poster Competition

Teaching and Learning Institute at Longwood University

Spring 2017 Sectional MAA meeting at Frostburg State University

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SACSCOC Annual Meeting in Atlanta

- ❖ Co-presenter (with Ms. Virginia Kinman): “Teaching Load: Faculty Adequacy and Program Improvement”

Fall 2016 Sectional MAA meeting at Johns Hopkins University

2016

SUMS Conference at JMU

- ❖ Poster Judge for Student Poster Competition

Spring 2016 Sectional MAA meeting at Montgomery College

- ❖ Past Section Chair, Presentation Judge for Student Competition
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Fall 2015 Sectional MAA meeting at St. Mary’s College of Maryland

- ❖ Past Section Chair

SUMS Conference at JMU

- ❖ Poster Judge for Student Poster Competition

2015

Mathfest 2015 in Washington, D.C.

Spring 2015 Sectional MAA meeting at Roanoke College

- ❖ Section Chair
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SUMS Conference at JMU

- ❖ Poster Judge for Student Poster Competition

Academic Leadership Institute at Longwood University (LU)

Teaching & Learning Institute at LU

2014

- ❖ Panelist: “Transforming Our Students from Novice to Expert: Writing in the Disciplines Across the Academy”

Spring 2014 Sectional MAA meeting at JMU

- ❖ Section Chair

Joint Mathematics Meeting 2014 in Baltimore

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	<p>Fall 2013 Sectional MAA meeting at LU &amp; Hampden-Sydney College (HSC)</p> <ul style="list-style-type: none"> <li>❖ <u>Section Chair, Local Co-Coordinator</u> of meeting</li> </ul>
2013	<p>SUMS Conference at JMU</p> <ul style="list-style-type: none"> <li>❖ <u>Poster Judge</u> for Student Poster Competition</li> </ul> <p>Spring 2013 Sectional MAA meeting at Salisbury University</p> <ul style="list-style-type: none"> <li>❖ <u>Section Chair-Elect</u></li> </ul>
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	<p>Fall 2012 Sectional MAA meeting at Virginia Military Institute</p> <ul style="list-style-type: none"> <li>❖ <u>Section Chair-Elect, Contributed Paper Session: "Arms Race Example in Intro ODEs."</u></li> </ul>
2012	<p>SUMS Conference at JMU</p> <ul style="list-style-type: none"> <li>❖ <u>Poster Judge, Fireball Judge</u></li> </ul> <p>Spring 2012 Sectional MAA meeting at Stevenson University</p> <p>LU Assessment Conference</p>
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	<p>Fall 2011 Sectional MAA meeting at Christopher Newport University</p>
2011	<p>SUMS Conference at JMU</p> <ul style="list-style-type: none"> <li>❖ <u>Gummybear Contest Assistant</u></li> </ul> <p>Spring 2011 Sectional MAA meeting at Randolph-Macon College</p> <p>LU Assessment Conference</p>
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	<p>SUMS Conference at JMU</p> <ul style="list-style-type: none"> <li>❖ <u>Poster Judge</u> for Student Poster Competition</li> </ul>
2010	<p>Mathfest 2010 in Pittsburgh</p> <ul style="list-style-type: none"> <li>❖ <u>MAA Contributed Paper Session: "Student Success in Face-to-Face Versus Online Finite Mathematics Class."</u></li> </ul> <p>Spring 2010 Sectional MAA meeting at Virginia State University</p> <ul style="list-style-type: none"> <li>❖ <u>Program Chair</u></li> </ul>
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	<p>Fall 2009 Sectional MAA meeting at Goucher College</p> <ul style="list-style-type: none"> <li>❖ <u>Program Chair</u></li> </ul>
2009	<p>SUMS Conference at JMU</p> <ul style="list-style-type: none"> <li>❖ <u>Poster Judge</u> for Student Poster Competition</li> </ul> <p>Spring 2009 Sectional MAA meeting at the University of Mary Washington</p> <ul style="list-style-type: none"> <li>❖ <u>Program Chair</u></li> </ul> <p>Joint Mathematics Meetings 2009 in Washington D.C.</p> <ul style="list-style-type: none"> <li>❖ <u>MAA Contributed Paper Session: "A Geometric Complexity Result in a Certain Length Space."</u></li> </ul>

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	<p>Fall 2008 Sectional MAA meeting at Hood College</p> <ul style="list-style-type: none"> <li>❖ <u>Program Chair</u></li> </ul> <p>SUMS Conference at JMU</p> <ul style="list-style-type: none"> <li>❖ <u>Poster Judge</u> for Student Poster Competition</li> </ul>
2008	<p>Longwood Online Technology Institute training for online teaching</p> <p>LU Workshop on Integrating Curricula in the Mathematical, Biological, and Environmental Sciences</p> <p>Spring 2008 Sectional MAA meeting at EMU/JMU</p> <ul style="list-style-type: none"> <li>❖ <u>Program Chair-Elect</u></li> </ul>
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2007	<p>Fall 2007 Sectional MAA meeting at Anne Arundel Community College</p> <ul style="list-style-type: none"> <li>❖ <u>Program Chair-Elect</u></li> </ul> <p>Participated in MAA PREP (PROfessional Enhancement Program) Workshop <i>Calculus: Online and Interactive</i></p>
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2006	<p>Fall 2006 Sectional MAA meeting at LU &amp; HSC</p> <ul style="list-style-type: none"> <li>❖ <u>Local Co-Coordinator</u></li> </ul> <p>Mathfest 2006 in Knoxville</p> <ul style="list-style-type: none"> <li>❖ <u>Co-Organizer</u> for Panel: "Getting Tenure without Going Insane."</li> <li>❖ <u>Project NExT participant</u></li> </ul> <p>Spring 2006 Sectional MAA meeting at Loyola College</p> <ul style="list-style-type: none"> <li>❖ <u>Judge</u>: Undergraduate Student Papers</li> <li>❖ <u>Talk</u>: "Naïve Calculus: The Chain Rule." Contributed Paper Session</li> <li>❖ <u>Section NExT participant</u></li> </ul> <p>Joint Mathematical Meetings 2006 in San Antonio</p> <ul style="list-style-type: none"> <li>❖ <u>Project NExT participant</u></li> </ul>
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2005	<p>Fall 2005 Sectional MAA meeting at Montgomery College</p> <ul style="list-style-type: none"> <li>❖ <u>Contributing panelist</u>: Session: Classroom Project Use</li> <li>❖ <u>Section NExT participant</u></li> </ul> <p>Mathfest 2005 in Albuquerque</p> <ul style="list-style-type: none"> <li>❖ <u>Project NExT participant</u></li> </ul> <p>Spring 2005 Sectional MAA meeting at UVA</p> <ul style="list-style-type: none"> <li>❖ <u>Section NExT participant</u></li> </ul>
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2004	<p>Fall 2004 Sectional MAA meeting at Morgan State University</p> <ul style="list-style-type: none"> <li>❖ <u>Section NExT participant</u></li> </ul>

### III. Scholarly Activities

#### A. Research

- 2020 Member of Senior Honors Research Examination Committee for Jordan Berkompas.
- 2016 Member of Senior Honors Research Examination Committee for Sabrina Walker.
- 2013, 2014 Referee for *PRIMUS*.
- 2011 Referee for *Involve*.
- 2008 Referee for *Journal of Integer Sequences*.

#### B. Publications

- 2015 - 2022 D. Shoenthal. Invited submissions to Puzzle Master section. *Virginia Mathematics Teacher*. Volume 42, No. 1 (Fall 2015) through Volume 48, No. 2 (Spring 2022) [two per year].
- 2020 D. Shoenthal. "The Dynamics of Communication: Department Chair Responsibilities." *PRIMUS*, 30:6, 711-719, DOI: [10.1080/10511970.2020.1737604](https://doi.org/10.1080/10511970.2020.1737604).
- 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. L. 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. Professional Service to University/Community**

2023 – 2024	Member – SCHEV SB1280 Workgroup
2022 – 2023	Member – Mathematics Education Advisory Committee (under VDOE)
2019 – 2020	Member – SACSCOC Annual Planning Committee
2018	Member – Lecturer of Mathematics Search Committee
2010 – 2017	Coordinator, Quantitative Reasoning Competency Assessment
2010 – 2017	Academic Chairs Council (née Academic Affairs Council) Presiding Chair (2013 – 2017)
2017	Member – Data Analyst Search Committee
2014 – 2016	Member – Academic Core Curriculum Committee
2005 – 2016	Started (with Anna Cox) and Maintained General Education Film Series
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 – SACSCOC 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
2010 – 2011	Member – Fifth Year Monitoring Report Committee for SACSCOC Standard 2.8
2011	Judge – Campus Movie Fest for Longwood
2005 – 2010	Member – Mathematics and Computer Science Curriculum Committee Chair (2006 – 2010)
2006 – 2010	Member – Department Awards Committee
2009 – 2010	Chair – CAS Curriculum Committee and Member of EPC
2009 – 2010	Member – Faculty Senate Executive Committee, Presidential Advisory Committee

2009 – 2010	Member – Ad-Hoc Committee on Faculty Senate Self-Assessment
2010	Moderator – SGA Presidential Debate
2010	Panelist in CAFE discussion on Wiki usage in classes
2006 – 2009	Member – CAS Curriculum Committee
2008 – 2009	Chair – Faculty Awards Committee
2009	Co-organized (with Anna Cox) the Fall Simkins Lecture (Fiscal Wake-Up Tour)
2008	Member – Ad Hoc Committee on Student Commencement Participation
2006 – 2008	Member – Faculty Awards Committee
2005 – 2006	Member - Faculty Development and Research Committee