

Meredith L. Greer

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EDUCATION

Vanderbilt University

Nashville, Tennessee, 1997-2002

Ph.D. May 2002, M.S. May 1999

University of Delaware

Newark, Delaware, 1991-1995

B.A., *cum laude*, Mathematics

PUBLICATIONS

New Expectations for the Training of Medical Students *

FOCUS vol. 29, no. 5, p. 20 (2009)

New Expectations for the Training of Medical Students: An Undergraduate Preparation Perspective *

Society for Mathematical Biology Newsletter vol. 22, no. 3, pp. 8-9 (2009)

Blogs Hit Classroom: Students Start Reading

With Benjamin Reed, PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies) vol. 18, no. 2, pp. 139-148 (2008)

Effects of General Incidence and Polymer Joining on Nucleated Polymerization in a Model of Prion Proliferation

With Pauline van den Driessche, Lin Wang, and Glenn F. Webb, SIAM Journal on Applied Mathematics vol. 68, pp. 154-170 (2007)

A Mathematical Analysis of the Dynamics of Prion Proliferation

With Glenn F. Webb and Laurent Pujot-Menjouet, Journal of Theoretical Biology vol. 242, pp. 598-606 (2006)

Plague or Prediction?

FOCUS pp. 4-5 (2006)

Determining If Two Solid Ellipsoids Intersect **

With Salvatore Alfano, Journal of Guidance, Control, and Dynamics, vol. 26 no. 1, pp. 106-110 (2003)

Determining If Two Ellipsoids Share the Same Volume **

With Salvatore Alfano, Advances of the Astronautical Sciences vol. 109, pp. 771-783 (2002)

(The articles marked * are very similar, and the articles marked ** are very similar.)

INVITED TALKS

Connecticut College

February 19, 2008, New London, Connecticut
Building Math Models in Biology

Colby College

September 17, 2007, Waterville, Maine
Building Math Models in Biology

University of Alberta

April 25, 2006, Edmonton, Canada
Prion Disease Modeling: Interaction of Infectious and Noninfectious Proteins

Harvey Mudd and Pomona Colleges

March 29, 2006, Claremont, California
Prion Disease Modeling: Interaction of Infectious and Noninfectious Proteins

University of British Columbia

February 8, 2006, Vancouver, Canada
Protein Population Interactions in Prion Diseases

Canadian Mathematical Society Annual Meeting

December 11, 2005, Victoria, Canada
Interaction of Infectious and Noninfectious Proteins in Prion Disease: Models, Simulations, and Steady State Study

United States Military Academy

October 6, 2005, West Point, New York
Roller Coaster Mathematics

Bates Math Department Seminar on Computational Mathematics

September 21, 2005, Lewiston, Maine
Maple and Other Math Software in Classes with Applications

International Society for Analysis, its Applications and Computation

July 25-30, 2005, Catania, Italy
Threshold Conditions in a Model of Prion Disease

Hobart and William Smith Colleges

April 15, 2005, Geneva, New York

Saving Satellites

CBB (Colby, Bates, Bowdoin) Mathematics Seminar

November 12, 2004, Bowdoin College

Prion Proliferation: Modeling, Analysis, and Impact

American Mathematical Society Southeast Region Fall Meeting

October 15-17, 2004, Nashville, Tennessee

A Mathematical Analysis of Prion Proliferation

Connecticut College

February 17, 2004, New London, Connecticut

From Periodic Locusts to Mad Cow Disease: Translating Nature Into Mathematics

Bates Mathematics Department Seminar

November 6, 2002, Lewiston, Maine

Satellites, Ellipsoids, and Eigenvalues

Vanderbilt University Mathematics Seminar for Undergraduates

March 28, 2001, Nashville, Tennessee

Mad Cows and Hungry Locusts

Vanderbilt University Mathematics Department

February 8, 2001, Nashville, Tennessee

HTML for Beginners

CONTRIBUTED TALKS

MathFest

August 10-12, 2006, Knoxville, Tennessee

Roller Coasters and the Mathematics Behind Them

Society for Mathematical Biology Annual Meeting

July 18-22, 2005, Dresden, Germany

Threshold Conditions in an ODE Model of Prion Disease (poster)

AWM Workshop as part of SIAM Annual Meeting

July 11-16, 2004, Portland, Oregon

A Mathematical Analysis of Prion Proliferation

Joint Conference of MPD 7 and DESTOBIO 3

June 21-25, 2004, Trento, Italy

Steady State Analysis of Prion Proliferation

Joint Mathematics Meetings

January 6-10, 2004, Phoenix, Arizona

Math Camp: A Language Immersion Class

Society for Mathematical Biology Annual Meeting

August 5-9, 2003, Dundee, Scotland

Prion Dynamics Modelled, Displayed, and Analyzed

Joint Mathematics Meetings

January 15-18, 2003, Baltimore, Maryland

A Population Model of Prion Dynamics

Regional Meeting of the Mathematical Association of America

November 22-23, 2002, Framingham, Massachusetts

Saving Satellites

The Society for Mathematical Biology Annual Meeting

July 15-19, 2001, Hilo, Hawaii

A Population Model of Prion Dynamics (poster)

AWM Workshop as part of SIAM Annual Meeting

July 9-11, 2001, San Diego, California

A Population Model of Prion Dynamics (poster)

GRANTS

CBB Mellon Grant for Math/Bio Seminar Series

2007-2008 academic year: \$8500

Ladd Gift

2004-2005 academic year: \$3000

AWM Workshop as part of SIAM Annual Meeting

July 11-16, 2004, Portland, Oregon. Conference attendance and travel funded by AWM for accepted participants

Howard Hughes Medical Institute IV

Curriculum development grant awarded December 2004: \$12000

Howard Hughes Medical Institute IV

Curriculum development grant awarded May 2003: \$7756

The Society for Mathematical Biology Travel Grant

Annual meeting, July 15-19, 2001, Hilo, Hawaii

AWM Workshop as part of SIAM Annual Meeting

July 9-11, 2001, San Diego, California. Conference attendance and travel funded by AWM for accepted participants

OTHER ACTIVITIES

Phi Beta Kappa Triennial Conference

October 1-4, 2009, Austin, Texas

The Society for Mathematical Biology Annual Meeting

July 27-30, 2009, Vancouver, Canada

Mathematical Association of America, Northeast Section, Fall Meeting

November 17, 2007, Framingham, Massachusetts

The Society for Mathematical Biology Annual Meeting

July 31-August 3, 2007, San Jose, California

MathFest 2007

August 3-5, 2007, San Jose, California

Bioinformatics in the Undergraduate Curriculum Workshop

July 19, 2007, at Bates College, Lewiston, Maine

The Society for Mathematical Biology Annual Meeting

July 31-August 4, 2006, Raleigh, North Carolina

Bioinformatics Mini-Workshop

August 22, 2005, at Bates College, Lewiston, Maine

Mathematical Association of America, Northeast Section, Spring Meeting

June 17-18, 2005, held at Bates College, Lewiston, Maine

Hudson River Undergraduate Mathematics Conference

April 30, 2005, Williams College, Williamstown, Massachusetts; accompanied six Bates students

Joint Mathematics Meeting

January 5-8, 2005, Atlanta, Georgia

MathFest 2004

August 12-14, 2004, Providence, Rhode Island; co-organized a special session and served as panel chair

Legacy of R. L. Moore Conference

March 12-14, 2004, Austin, Texas

Joint Mathematics Meetings

January 6-10, 2004, Phoenix, Arizona

MathFest 2003

July 31-August 2, 2003, Boulder, Colorado

Bioinformatics Conference at Dickinson College

March 21-22, 2003, Carlisle, Pennsylvania

MathFest 2002

August 1-3, 2002, Burlington, Vermont

Joint Mathematics Meetings

January 6-9, 2002, San Diego, California

Horizons in Combinatorics

May 21-24, 2001, Nashville, Tennessee

DESTOBIO

August 23-27, 2000, West Lafayette, Indiana

PROFESSIONAL EXPERIENCE

Associate Professor of Mathematics

Bates College, 2008-present, Lewiston, Maine

Assistant Professor of Mathematics

Bates College, 2002-2008, Lewiston, Maine

Ph.D. student and Teaching Assistant

Vanderbilt University, 1997-2002, Nashville, Tennessee

Adjunct Lecturer

Spalding University, 2001, Louisville, Kentucky

Summer Hire

The Aerospace Corporation, 2000, Colorado Springs, Colorado

Summer Hire

TCS Management Group, 1998, Nashville, Tennessee

Instructor of English as a Second Language

Yale Academy of Language Education, 1995-1996, Taegu, South Korea

HONORS AND PROFESSIONAL ACTIVITIES

American Mathematical Society

Member since 1997

The Society for Mathematical Biology

Member since 2000; member of the Scientific Committee and Webmaster for the 2007 Annual Meeting; Travel and Meeting Funding Grants Committee chair since Summer 2006

Mathematical Association of America

Member since 2002

PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies)

Editorial board member since 2006

Association for Women in Mathematics

Member since 1997

Company Invention Award

For new technique developed at The Aerospace Corporation

Phi Beta Kappa

Member since 1995; Vice President of Bates College chapter, 2006-2008; President of Bates College chapter, 2008-2010