

Department of Mathematics  
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### Education

**Purdue University** **West Lafayette, IN**  
*Ph.D., Mathematics* *August 2010*  
Advisor: Gregory Buzzard

**Central Michigan University** **Mount Pleasant, MI**  
*B.S., Mathematics* *December 2003*

### Academic Positions

**Colorado Mesa University** **Grand Junction, CO**  
*Assistant Professor of Mathematics* *Aug 2010 – present*

**Educational Service Unit No. 11** **Holdrege, NE**  
*Summer Honors Program Instructor* *June 2014, June 2015*  
Residential summer program for gifted high school students.

**Central Michigan University** **Mount Pleasant, MI**  
*Visiting Scholar* *Summer 2013*  
NSF funded Research Experience for Undergraduates.

**Purdue University** **West Lafayette, IN**  
*Graduate Research Assistant* *2009 – 2010*

**Purdue University** **West Lafayette, IN**  
*Graduate Teaching Instructor* *2006 – 2009*

**Central Michigan University** **Mount Pleasant, MI**  
*Concurrent/Graduate Teaching Instructor* *2003 – 2004*

### University Teaching Experience

**Colorado Mesa University** *2010 – present*  
*Mathematics Courses Taught*

- MATH 110: College Mathematics
- MATH 113: College Algebra
- MATH 119: Precalculus
- MATH 135: Calculus I for Engineers
- MATH 151: Calculus I
- MATH 152: Calculus II
- MATH 236: Differential Eqns and Linear Algebra
- MATH 240: Intro to Advanced Mathematics
- MATH 260: Differential Equations
- MATH 325: Linear Algebra
- MATH 352: Advanced Calculus
- MATH 386: Geometries
- MATH 394: Mathematics Colloquium
- MATH 452: Introduction to Real Analysis I
- MATH 460: Linear Algebra II
- MATH 490: Abstract Algebra I (Spring 2017)

#### *Interdisciplinary Courses Taught*

- ESSL 290: Maverick Milestone: Numbers and Patterns in Nature (with Dr. Margot Becktell)

## Publications

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### Peer-Reviewed.....

"1-38-T-Ebola, Ebola Outbreak in West Africa." *SIMIODE: Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations*, <https://www.simiode.org/resources/2722> (2016).

Supporting document: "1-38-T-Excel-DataEbolaOutbreakWestAfrica," a file containing comprehensive data from WHO, compiled and organized by L. Driskell.

"Snails in a Tide Pool," with Audrey Malagon. *SIMIODE: Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations*, accepted by editors (2015), to appear October 2016.

"Adding Movement to Velocity Explorations," with Audrey Malagon. Book chapter in *Tactile Learning Activities in Mathematics: A Recipe Book for the Undergraduate Classroom*, accepted by editors (2015).

"Keychain Ziplines: A Practical Way to Study Velocity in the Calculus Classroom," with Audrey Malagon. *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*, 23:7 (2013), 590-597, DOI: 10.1080/10511970.2013.801383. A PRIMUS Hot Topic Article in 2014.

"Wavelet-Based Steganography." *Cryptologia*, XXVIII:2 (2004), p 157–174.

### Manuscripts.....

"A simplified two-variable model for cardiac tissue," in preparation. *SIAM Journal on Applied Dynamical Systems*, to be submitted in 2017.

"Lake Mead Temperature Modeling," with undergraduate students Kelsey Marcinko and Catherine Schepp. Printed in the Central Michigan University 2013 REU Final Reports Booklet (2013).

## Student Research Projects

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### Senior Thesis Projects.....

"Equilibria of Earth's Climate," Kayla Schaffer 2013 – 2014  
*Presented at 2014 CMU Student Showcase and in CMU Mathematics Seminar*

"Mathematics of Solar Power," Randon Tompkins 2012 – 2013  
*Presented at 2013 CMU Student Showcase and in CMU Mathematics Seminar*  
Student Showcase Award winner.

"Formation Mechanisms for Animal Coat Patterns," Mark Douglass 2011 – 2012  
*Presented at 2012 CMU Student Showcase and in CMU Mathematics Seminar*

### NSF Funded Project.....

"Lake Mead Temperature Modeling,"  
Kelsey Marcinko, Whitworth University and Catherine Schepp, Haverford College. Summer 2013  
*NSF Research Experience for Undergraduates at Central Michigan University*  
Results presented at several regional and one national conference.  
Student received Outstanding Presentation Award at the MAA Undergraduate Poster Session,  
2014 Joint Mathematics Meetings, Baltimore, MD.

## Professional Memberships

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Mathematical Association of America	2011 – present
Kappa Mu Epsilon, Local Chapter	2010 – present
Society for Industrial and Applied Mathematics	2008 – 2010, 2011, 2013
Association for Women in Mathematics	2006 – 2010
American Mathematical Society	2004 – 2010

## Awards, Grants, and Fellowships

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CMU Faculty Professional Development Fund Grant	2012, 2013, 2014, 2016
CMU Faculty Performance Rating: Excellent	2011 – 2015
SIMIODE East Developer Workshop, invitation and funding	2015
Mathematical Association of America PREP IBL Workshop Travel Grant	2015
CMU Exemplary Faculty Award	2013, 2014
Mathematical Association of America Project NEXt Fellow	Fall 2011 – Fall 2012
Purdue Women in Science Program Travel Grant	2010
American Mathematical Society Graduate Student Travel Grant	2010
Purdue Research Foundation Research Grant	2009 – 2010
Purdue University Program in Quantitative Physiology Scholar	2008 – 2010
Purdue Graduate School Summer Research Grant	2008
GAANN Fellowship	2004 – 2009
Cryptologia Annual Greg Mellen Memorial Cryptology Paper Scholarship Prize	2004

## Presentations

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Joint Mathematics Meetings	Atlanta, GA
<i>Interdisciplinary Team Teaching: The Good, the Bad, and the Beautiful</i>	January 2017
Indiana Wesleyan University Mathematics Colloquium	Marion, IN
<i>Investigating various climate scenarios on temperature in Lake Mead</i>	October 2016
MAA Indiana Section Meeting	West Lafayette, IN
<i>Ebola and Snails: Modeling Scenarios for the Classroom</i>	October 2016
Joint Mathematics Meetings	Seattle, WA
<i>Snails in a tide pool &amp; other new modeling applications for mathematics courses</i>	January 2016
CMU Mathematics Colloquium	Grand Junction, CO
<i>Modeling Temperature: Lake Mead</i>	November 2013
CMU Physics Seminar	Grand Junction, CO
<i>Mathematics (and Physics) of a Broken Heart</i>	October 2013
Grand Valley State University REU (invited)	Allendale, MI
<i>Mathematics of a Broken Heart</i>	June 2013
Joint Mathematics Meetings	San Diego, CA
<i>Keychain Ziplines: A practical way to study velocity in the calculus classroom</i>	January 2013
CMU Mathematics Colloquium	Grand Junction, CO
<i>Wavelets and Hidden Messages</i>	March 2012
SIAM Conference on Applications of Dynamical Systems (poster)	Snowbird, UT
<i>Existence and stability of traveling wave solutions in a simplified model of cardiac tissue</i>	May 2011

CMU Mathematics Colloquium <i>Excitable Systems: Giant Squids to Broken Hearts</i>	Grand Junction, CO November 2010
Valparaiso University REU (invited) <i>Mathematics of a Broken Heart</i>	Valparaiso, IN July 2010

## Workshops and Professional Development

### National and Regional Workshops.....

Joint Meeting of the Rocky Mountain and Intermountain Sections of the MAA <i>Workshop: Grappling with Chaos: How Simplicity Gives Rise to Complexity</i>	Grand Junction, CO April 2016
SIMIODE <i>East Developer Workshop, 3-day workshop</i>	Virginia Beach, VA July 2015
MAA Professional Enhancement Program (PREP) <i>Inquiry Based Learning Workshop, 4-day workshop</i>	San Luis Obispo, CA July 2015
MAA Rocky Mountain Section Meeting <i>Workshop: Modeling Across the Mathematics Curriculum</i>	Colorado Springs, CO April 2015
MATLAB by MathWorks <i>Software training workshop, self-paced</i>	Online June 2013
MAA Minicourse <i>Teaching Differential Equations with Modeling</i>	San Diego, CA January 2013
MAA Short Course <i>on Conceptual Climate Models</i>	San Diego, CA January 2013
MAA Project NExT <i>Project NExT Workshop, 2-day workshop</i>	Madison, WI August 2012
MAA Project NExT <i>Project NExT Workshop, 1-day workshop</i>	Boston, MA January 2012
MAA Project NExT <i>Project NExT Workshop, 3-day workshop</i>	Lexington, KY August 2011

### National Conferences.....

Joint Mathematics Meetings <i>Multiple professional development sessions and panel discussions attended.</i>	Seattle, WA January 2016
Joint Mathematics Meetings <i>Multiple professional development sessions and panel discussions attended.</i>	Baltimore, MD January 2014
Joint Mathematics Meetings <i>Multiple professional development sessions and panel discussions attended.</i>	San Diego, CA January 2013
MAA MathFest <i>Multiple professional development sessions and panel discussions attended.</i>	Madison, WI August 2012
Joint Mathematics Meetings <i>Multiple professional development sessions and panel discussions attended.</i>	Boston, MA January 2012
MAA MathFest <i>Multiple professional development sessions and panel discussions attended.</i>	Lexington, KY August 2011

### Hosted by Colorado Mesa University.....

CMU Faculty Professional Development Workshop by Linda Nilson <i>Critical Thinking Unmasked: How to Infuse It into a Discipline-Based Course</i>	August 2016
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CMU Faculty Professional Development Program <i>Panel discussions</i>	January 2016
Professionalism & Classroom Management Strategies; Effective Constructive Criticism; Dealing with Volatile Students	
Higher Learning Commission <i>Presentation by Dr. Jeff Rosen, Vice President for Accreditation Relations</i>	January 2016
Maverick Milestone Workshop <i>Constructing your course</i>	November 2015
CMU Teacher 2 Teacher Workshop <i>Academic Speed Dating (for Milestone partners)</i>	November 2015
CMU Faculty Professional Development Workshop by Leslie Myers <i>Brainy But Balanced: Achieving the Elusive Work-Life Balance in Academia</i>	April 2015
CMU In-Service Training <i>Hosted by Student Services</i>	March 2015
CMU Teacher 2 Teacher Workshop <i>Maverick Milestones</i>	February 2015
CMU Faculty Professional Development Workshop by Leslie Myers <i>Keeping the Garage Door Open and Batteries for the Garage Door</i>	August 2014
CMU Teacher 2 Teacher Workshop <i>"What do you do to Engage students?"</i>	November 2013
CMU Teacher 2 Teacher Workshop <i>Critical Thinking Through Creativity</i>	April 2013
CMU Teacher 2 Teacher Workshop <i>Ken Bain follow-up: Deep Learning</i>	December 2012
CMU Campus of Difference Training <i>by the Anti-Defamation League</i>	November 2012
CMU Faculty Professional Development Workshop <i>What the Best College Teachers Do by Ken Bain</i>	August 2012

## Conferences Attended

MAA Indiana Section Meeting; West Lafayette, IN	October 2016
Joint Meeting of the Rocky Mountain and Intermountain Sections of the MAA; GJ, CO	April 2016
Joint Mathematics Meetings; Seattle, WA	January 2016
MAA Rocky Mountain Section Meeting; Colorado Springs, CO	April 2015
Joint Mathematics Meetings; Baltimore, MD	January 2014
Upper Colorado River Basin Water Conference; Grand Junction, CO	November 2013
Summer Undergraduate Michigan Math. Research Conference; Mount Pleasant, MI	July 2013
River Crossings: Linking River Communities; Grand Junction, CO	March 2013
Joint Mathematics Meetings; San Diego, CA	January 2013
MAA MathFest; Madison, WI	August 2012
Joint Mathematics Meetings; Boston, MA	January 2012
MAA MathFest; Lexington, KY	August 2012
SIAM Conference on Applications of Dynamical Systems; Snowbird, UT	May 2011
MAA Rocky Mountain Section Meeting; Boulder, CO	April 2011
Joint Mathematics Meetings; New Orleans, LA	January 2011

## Professional Service Activities

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### Profession.....

#### **Invited Member**

*Mathematical Association of America Committee on Early Career Mathematicians* Jan 2017 – 2020

#### **Invited Member**

*SIMIODE Board of Contributing Advisors* 2013 – present

#### **Conference Organizing Committee**

*Joint Meeting of the Rocky Mountain and Intermountain Sections of the MAA* 2015 – 2016

#### **Reviewer/Referee**

*PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies* 2013 – present

#### **Reviewer/Referee**

*SIMIODE: Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations* 2013 – present

#### **Selection Committee**

*Central Michigan University NSF REU* Spring 2013

Session Chair, General Session at Joint Sections Meeting of the MAA April 2016

Co-Organizer, MAA Early Career Mathematicians Networking Social event January 2016

Focus Group, MAA Committee on Undergraduate Instructional Practices January 2016

Co-Organizer, Project NEXt Panel on Teaching Intro to Proofs; Madison, WI August 2012

Co-Organizer, Project NEXt Panel on Capstone Courses; Boston, MA January 2012

Co-Chair, General Session at MAA section meeting; Boulder, CO April 2011

Co-Chair, AMS Contributed Papers Session at national meeting; San Francisco January 2010

### University Committees.....

**Vice-Chair**, Undergraduate Curriculum Committee Fall 2016 – present

Undergraduate Curriculum Committee 2014 – 2016

Essential Learning Committee (Faculty Senate established sub-committee) 2014 – present

**Faculty Co-Advisor**, Alternative Spring Break Club 2015 – 2016

Quantitative Literacy Task Force Spring 2015

Student Showcase Planning Committee 2013 – 2014

**Chair**, Library Advisory Committee 2013 – 2015

Library Advisory Committee 2012 – 2013

### Department.....

**Faculty Advisor**, Math Club 2010 – 2016

Department Committee for Program Revisions Fall 2014 – present

Search Committee, Assistant Professor of Mathematics 2014 – 2015

Early Scholars Mathematics Faculty Liaison and Committee 2013 – 2015, Fall 2016

Search Committees for Instructor positions 2010 – 2011, 2011 – 2012, Summer 2014

Mathematics Program Review Committee 2014

Textbook Selection Committees Spring 2014, Spring 2013, Spring 2011

Committee on Mathematics Student Learning Objectives 2012 – 2013

### Community.....

**Speaker**, STEM Camp at CMU; The Zombie Apocalypse and Exponential Growth June 2016

**Station Leader**, Space Day at CMU; How Many Sides on a Mobius Strip? February 2016

**Event Organizer**

*Math Extravaganza, 14th, 15th, 16th, 17th, and 18th annual events*

Developed hands-on activities for mathematical explorations and organized event for regional high school students.

**Grand Junction, CO**

2011-2016

**Instructor**

*Summer Honors Program*

Two week residential program (8 hours per day) for gifted high school students.

Taught upper level abstract mathematical concepts not typically seen in the high school curriculum using discovery-based activities.

**Holdrege, NE**

*Summer 2014, Summer 2015*

**Event Co-Organizer, 13th Annual Math Extravaganza**

2010-2011