Colorado Mesa University

LISA DRISKELL

Department of Mathematics 1100 North Avenue Grand Junction, CO 81501 (970)248-1824 ldriskel@coloradomesa.edu

Education

Purdue University West Lafayette, IN

Ph.D., Mathematics

August 2010

Advisor: Gregery 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

Mathematics Courses Taught

o MATH 110: College Mathematics

• MATH 113: College Algebra

o MATH 119: Precalculus

• MATH 135: Calculus I for Engineers

o MATH 151: Calculus I

o MATH 152: Calculus II

o MATH 236: Differential Eqns and Linear Algebra

o MATH 240: Intro to Advanced Mathematics

o MATH 260: Differential Equations

o MATH 325: Linear Algebra

o MATH 352: Advanced Calculus

o MATH 386: Geometries

o MATH 394: Mathematics Colloquium

o MATH 452: Introduction to Real Analysis I

o MATH 460: Linear Algebra II

o MATH 490: Abstract Algebra I (Spring 2017)

Interdisciplinary Courses Taught

 ESSL 290: Maverick Milestone: Numbers and Patterns in Nature (with Dr. Margot Becktell) 2010 - present

Publications

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 Presented at 2014 CMU Student Showcase and in CMU Mathematics Seminar	2013 – 2014
"Mathematics of Solar Power," Randon Tompkins Presented at 2013 CMU Student Showcase and in CMU Mathematics Seminar Student Showcase Award winner.	2012 – 2013
"Formation Mechanisms for Animal Coat Patterns," Mark Douglass Presented at 2012 CMU Student Showcase and in CMU Mathematics Seminar	2011 – 2012
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

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

CMU Mathematics Colloquium

Excitable Systems: Giant Squids to Broken Hearts

Valparaiso University REU (invited)

Mathematics of a Broken Heart

Grand Junction, CO

November 2010

Valparaiso, IN

July 2010

Workshops and Professional Development

Workshops and Professional Development	
National and Regional Workshops	
Joint Meeting of the Rocky Mountain and Intermountain Sections of the MAA Workshop: Grappling with Chaos: How Simplicity Gives Rise to Complexity	Grand Junction, CO <i>April</i> 2016
SIMIODE East Developer Workshop, 3-day workshop	Virginia Beach, VA July 2015
MAA Professional Enhancement Program (PREP) Inquiry Based Learning Workshop, 4-day workshop	San Luis Obispo, CA July 2015
MAA Rocky Mountain Section Meeting Workshop: Modeling Across the Mathematics Curriculum	Colorado Springs, CO April 2015
MATLAB by MathWorks Software training workshop, self-paced	Online June 2013
MAA Minicourse Teaching Differential Equations with Modeling	San Diego, CA January 2013
MAA Short Course on Conceptual Climate Models	San Diego, CA January 2013
MAA Project NExT Project NExT Workshop, 2-day workshop	Madison, WI August 2012
MAA Project NExT Project NExT Workshop, 1-day workshop	Boston, MA January 2012
MAA Project NExT Project NExT Workshop, 3-day workshop	Lexington, KY August 2011
National Conferences.	
Joint Mathematics Meetings Multiple professional development sessions and panel discussions attended.	Seattle, WA January 2016
Joint Mathematics Meetings Multiple professional development sessions and panel discussions attended.	Baltimore, MD January 2014
Joint Mathematics Meetings Multiple professional development sessions and panel discussions attended.	San Diego, CA January 2013
MAA MathFest Multiple professional development sessions and panel discussions attended.	Madison, WI August 2012
Joint Mathematics Meetings Multiple professional development sessions and panel discussions attended.	Boston, MA January 2012
MAA MathFest Multiple professional development sessions and panel discussions attended.	Lexington, KY August 2011
Hosted by Colorado Mesa University	
CMU Faculty Professional Development Workshop by Linda Nilson Critical Thinking Unmasked: How to Infuse It into a Discipline-Based Course	August 2016

CMU Faculty Professional Development Program Panel discussions Professionalism & Classroom Management Strategies; Effective Constructive Criticism;	January 2016	
Dealing with Volatile Students		
Higher Learning Commission Presentation by Dr. Jeff Rosen, Vice President for Accreditation Relations	January 2016	
Maverick Milestone Workshop Constructing your course	November 2015	
CMU Teacher 2 Teacher Workshop Academic Speed Dating (for Milestone partners)	November 2015	
CMU Faculty Professional Development Workshop by Leslie Myers Brainy But Balanced: Achieving the Elusive Work-Life Balance in Academia	April 2015	
CMU In-Service Training Hosted by Student Services	March 2015	
CMU Teacher 2 Teacher Workshop Maverick Milestones	February 2015	
CMU Faculty Professional Development Workshop by Leslie Myers Keeping the Garage Door Open and Batteries for the Garage Door	August 2014	
CMU Teacher 2 Teacher Workshop "What do you do to Engage students?"	November 2013	
CMU Teacher 2 Teacher Workshop Critical Thinking Through Creativity	April 2013	
CMU Teacher 2 Teacher Workshop Ken Bain follow-up: Deep Learning	December 2012	
CMU Campus of Difference Training by the Anti-Defamation League	November 2012	
CMU Faculty Professional Development Workshop What the Best College Teachers Do by Ken Bain	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, CC) 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	<i>May 2011</i>	
MAA Rocky Mountain Section Meeting; Boulder, CO	April 2011	
Joint Mathematics Meetings; New Orleans, LA	January 2011	

Professional Service Activities

Mathematical Association of America Committee on Early Career Mathematicians Notice Member MiMODE Board of Contributing Advisors Conference Organizing Committee oint Meeting of the Rocky Mountain and Intermountain Sections of the MAA 2015 – 2016 Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Reviewer/Referee PRIMIMIS: Problems, Resources, and Issues in Mathematics Undergraduate Studies Problems of Modeling Investigations and Opportunities Problems of Modeling Investigations and Opportunities Problems of Mathematics Indicated Problems of Mathematics Problems of Investigations and Opportunities Problems of Problems Review Committee Problems of Problems	Profession.		
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Quantitative Literacy Task Force Student Showcase Planning Committee Chair, Library Advisory Committee Cibrary Advisor, Math Club Cepartment Cibrary Advisor, Math Club Cepartment Committee for Program Revisions Cearch Committee, Assistant Professor of Mathematics Cearch Committee, Assistant Professor of Mathematics Cearch Committees for Instructor positions Cearch Committees for Instructor positions Cearch Committees Faculty Liaison and Committee Cearch Committees for Instructor positions Committee Spring 2014, Spring 2013, Spring 2011 Committee on Mathematics Student Learning Objectives Community Com	Essential Learning Committee (Faculty Senate established sub-con	nmittee)	2014 – present
Student Showcase Planning Committee Chair, Library Advisory Committee Cibrary Advisory Committee Cibrary Advisory Committee Cibrary Advisory Committee Committee Committee Committee Committee for Program Revisions Committee, Assistant Professor of Mathematics Committee, Assistant Professor of Mathematics Committees for Instructor positions Committees for Instructor positions Committees Program Review Committee Committee Search Committees Community	Faculty Co-Advisor, Alternative Spring Break Club		2015 – 2016
Chair, Library Advisory Committee Library Advisory Committee Department Faculty Advisor, Math Club Department Committee for Program Revisions Fall 2014 – 2016 Department Committee, Assistant Professor of Mathematics Early Scholars Mathematics Faculty Liaison and Committee Department Committees for Instructor positions Mathematics Program Review Committee Learch Committees Spring 2014, Spring 2013, Spring 2011 Committee on Mathematics Student Learning Objectives Community Department Library Advisory Committee 2010 – 2016 2010 – 2016 2011 – 2015 2010 – 2017, 2011 – 2015 2012 – 2013 2014 2015 2016 2017 2017 2017 2018 2018 2018 2019	Quantitative Literacy Task Force		Spring 2015
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Department Committee for Program Revisions Fall 2014 – present Search Committee, Assistant Professor of Mathematics Early Scholars Mathematics Faculty Liaison and Committee Fearch Committees for Instructor positions Mathematics Program Review Committee Fextbook Selection Committees Fall 2014 – present 2013 – 2015, Fall 2016 Spring 2011, 2011 – 2012, Summer 2014 Fextbook Selection Committees Fall 2014 – present 2014 – 2015 Spring 2014, Spring 2016 Fall 2014 – present 2014 – 2015 Fall 2014 – present 2014 – 2015 Fall 2014 – present 2014 – 2015 Fall 2014 – 2015 Fall 2014 – present 2014 – 2015 Fall 2015 – 2015 Fall 2014 – 2015 Fall 2015 – 2015 Fall 2014 – 2015 Fall 2016 – 2015 Fall 2014 – 2015 Fall 2015 – 2015 Fall 2015 – 2015 Fall 2016 –	Department		
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Early Scholars Mathematics Faculty Liaison and Committee Search Committees for Instructor positions Mathematics Program Review Committee Sextbook Selection Committees Spring 2014, Spring 2013, Spring 2011 Committee on Mathematics Student Learning Objectives Speaker, STEM Camp at CMU; The Zombie Apocalypse and Exponential Growth June 2016	Department Committee for Program Revisions		Fall 2014 – present
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Mathematics Program Review Committee 2014 Eextbook 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	Early Scholars Mathematics Faculty Liaison and Committee		2013 – 2015, Fall 2016
Textbook Selection Committees Spring 2014, Spring 2013, Spring 2011 Committee on Mathematics Student Learning Objectives Community Speaker, STEM Camp at CMU; The Zombie Apocalypse and Exponential Growth June 2016	Search Committees for Instructor positions	2010 – 2011, 2011	– 2012, Summer 2014
Committee on Mathematics Student Learning Objectives 2012 – 2013 Community. Speaker, STEM Camp at CMU; The Zombie Apocalypse and Exponential Growth June 2016	Mathematics Program Review Committee		2014
Community. Speaker, STEM Camp at CMU; The Zombie Apocalypse and Exponential Growth June 2016	Textbook Selection Committees	Spring 2014, Spr	ring 2013, Spring 2011
Speaker, STEM Camp at CMU; The Zombie Apocalypse and Exponential Growth June 2016	Committee on Mathematics Student Learning Objectives		2012 – 2013
Station Leader, Space Day at CMU; How Many Sides on a Mobius Strip? February 2016			June 2016
	Station Leader, Space Day at CMU; How Many Sides on a Mobius	Strip?	February 2016

Event Organizer Grand Junction, CO

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.

2011-2016

Instructor Holdrege, NE

Summer Honors Program

Summer 2014, Summer 2015

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.

Event Co-Organizer, 13th Annual Math Extravaganza

2010-2011