Ross Magi

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CITIZENSHIP   United States

RESEARCH
INTERESTS

My research interests lie in the area of mathematical biology. I am particularly interested in biological membranes, including questions of vesicle formation, lipid dynamics, and geometric effects. The mathematical ideas I most often use in my research come from differential equations, asymptotic analysis, and scientific computing.

EDUCATION

University of Utah, Salt Lake City, Utah, USA

MS, Mathematics, May 2009

Qualifying Exams: differential equations, applied math, numerical analysis

Walla Walla University, Walla Walla, Washington, USA

B.S., Mathematics, June 2007

Senior Project: *Mathematical models of disease spread*
Summa cum Laude

TEACHING
EXPERIENCE

University of Utah
Department of Mathematics

REU Supervisor   **August 2012 to May 2013**

Supervised a group of advanced undergraduate students on a research project studying molecular motors. Chose the topic, formed a collaboration with a faculty member from the physics department, and assisted the undergraduate students in learning the requisite mathematical and programming skills necessary to research the topic.

Teaching Assistant   **January 2012 to May 2012**

Attended lectures, assisted students during office hours, taught lab sessions, and graded homework

Spring 2012 - Math 5120: Mathematical Biology

Instructor   **August 2010 to May 2012**

Organized courses, lectured, and oversaw all administrative responsibilities

Summer 2012 - Math 1090: Business Algebra
Fall 2011 - Math 1210: Calculus I
Summer 2011 - Math 1050: College Algebra
Spring 2011 - Math 1010: Intermediate Algebra
Fall 2010 - Math 1050: College Algebra

INDUSTRY EXPERIENCE	**Research Intern**	**May 2009 to August 2009**

INDUSTRY
EXPERIENCE

Research Intern   **May 2009 to August 2009**
Novartis Pharmaceuticals
East Hanover, New Jersey, USA
   Performed mathematical research analyzing the effects of various medications
   on specific cancers.

CONFERENCE
PROCEEDINGS

Magi, Ross E, and Keener, James P: Curvature Induced Phase Separation in the Golgi
Apparatus. In: Proceedings from the Conference to honor Tom and Ken. College
Place, WA (2013).

TALKS AND
PRESENTATIONS

Curvature Induced Phase Separation in the Golgi Apparatus, Poster, Workshop for
Young Researcher in Mathematical Biology, Columbus, August 28, 2013

Curvature Induced Phase Separation in the Golgi Apparatus, Poster, SMB Annual Meet-
ing, Tempe, June 12, 2013

Curvature Induced Phase Separation in the Golgi Apparatus, Presentation, Conference
to Honor Tom and Ken, College Place, May 17, 2013

Curvature Induced Phase Separation in the Golgi Apparatus, Poster, IDEAS of March
Conference, Salt Lake City, March 16, 2013

Vesicles and the Calculus of Variations, GSAC Colloquium, University of Utah, Septem-
ber 18, 2012

A Derivation of the Navier Stokes Equations, GSAC Colloquium, University of Utah,
November 16, 2010

CONFERENCES
ATTENDED

Workshop for Young Researcher in Mathematical Biology, August 2013, Mathematical
Biosciences Institute, Columbus, Ohio, USA

SMB Annual Meeting, June 2013, University of Arizona, Tempe, Arizona, USA

Conference to Honor Tom and Ken, May 2013, Walla Walla University, College Place,
Washington, USA

IDEAS of March Conference, March 2013, University of Utah, Salt Lake City, Utah,
USA

Workshop 4: Cancer Development, Angiogenesis, Progression, and Invasion, January
2009, Mathematical Biosciences Institute, Columbus, Ohio, USA

UNIVERSITY
SERVICE

GSAC Co-Chair
University of Utah, August 2013 to present
   Organized committee placements and served as liason between GSAC and the
   department

Webmaster
University of Utah mathbio websites, August 2012 to present
   Updated webpage content and organization, streamlined HTML files, and main-
   tained the seminar list and abstracts of invited speakers

Departmental Recruitment Weekend Coordinator
Department of Mathematics, University of Utah, April 2013

Calculus Carnival
University of Utah, 2011
   This math department event is held every semester and uses games such as Math
   Jeopardy and Calculus Pictionary to teach calculus and precalculus concepts

AWARDS AND HONORS	**Departmental Merit Scholarship** Department of Mathematics, Walla Walla University (2005)
MEMBERSHIPS	Society for Mathematical Biology American Mathematical Society
SKILLS	*Languages*: English, Spanish *Programming Languages*: LaTeX, MATLab, Maple, HTML, CSS