

Thomas G. Stojsavljevic Jr.

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EDUCATION

Doctor of Philosophy, Mathematics

University of Wisconsin-Milwaukee, Milwaukee, WI, May 2019

Dissertation: *Mathematical Modeling and Analysis of a Phytoplankton Competition Model Incorporating Preferential Nutrient Uptake*

Master of Science, Mathematics

University of Wisconsin-Milwaukee, Milwaukee, WI, May 2014

Bachelor of Science, Pure Mathematics

University of Wisconsin-Milwaukee, Milwaukee, WI, May 2012

HONORS AND AWARDS

Graduate Morris and Miriam Marden Award

May 2019

Ernst Schwandt Teaching Award

May 2018, May 2014

Elsevier Student Award for the most notable paper by a student

May 2014

Undergraduate Morris and Miriam Marden Award

May 2012

Alice Siu-Fun Leung Award

May 2012

UWM Undergraduate Research Symposium First Place Research Presentation in the Natural Sciences

April 2010

PROFESSIONAL MEMBERSHIPS

American Mathematical Society

September 2012 –Present

Mathematical Association of America

September 2012 –Present

Association for Women in Mathematics

February 2018 –Present

Graduate Student Research Symposium Organizing Committee
–May 2017

September 2016

Phi –Beta –Kappa

May 2012 –Present

RESEARCH INTERESTS

Applied Mathematics

- Mathematical biology, computational mathematics, agent based/cellular automata models, optimization

Statistics

- Parameter estimation, global sensitivity analysis, machine learning

PUBLICATIONS Stojsavljevic, T., G.A. Pinter, I. Lauko, and N. Myers (2019) *Parameter identification and global sensitivity analysis for a phytoplankton competition model*. Quart. Appl. Math. 77: 1-18.

Béchette, A., T. Stojsavljevic, M. Tessmer, J.A. Berges, G.A. Pinter and E.B. Young. (2013) *Mathematical modeling of bacteriavirus interactions in Lake Michigan incorporating phosphorus content*. J. Great Lakes Res. 39(4): 646-654.

- This paper won the JGLR/Elsevier Student Award for the most notable paper by a student in 2014.

CONFERENCES AND PRESENTATIONS Joint Mathematics Meeting, Baltimore, MD: *Mathematical modeling and analysis of a phytoplankton competition model incorporating preferential nutrient uptake*. January 2019; Talk

Joint Mathematics Meeting, San Diego, CA: *Evolutionary stable strategy for a multispecies phytoplankton competition model*. January 2018; Talk

Mathematical Association of America Wisconsin Regional Meeting, UWM: *Global sensitivity analysis for a phytoplankton competition model*. April 2017; Talk

UWM Graduate Student Seminar: *Parameter identification and global sensitivity analysis for a phytoplankton competition model*. February 2017; Talk

UWM Graduate Student Research Symposium: *Global sensitivity analysis for a phytoplankton competition model*. October 2016; Poster Presentation

Joint Mathematics Meeting Seattle, WA: *Parameter identification and sensitivity analysis for a phytoplankton competition model*, January 2016; Talk

Joint Mathematics Meeting San Antonio, TX: *Mathematical modeling of competition for light and nutrients between phytoplankton species in a poorly mixed water column*. January 2015; Talk

UWM Applied Math Seminar: *Evolutionary Stable Strategy for Phytoplankton Competition in a Poorly Mixed Water Column*. November 2014; Talk

Mathematical Association of America Wisconsin Regional Meeting, UW-Stout: *Dynamic Modeling of Aquatic Viruses with a Phosphorus Quota*. (Béchette, A., T. Stojsavljevic M. Tessmer) April 2011; Talk

Second Annual Undergraduate Research Conference at the Interface of Biology and Mathematics NIMBios, University of Tennessee Knoxville: *Dynamic Modeling of Aquatic Viruses with an Internal Phosphorus Quota*. (Béchette, A., T. Stojsavljevic, M. Tessmer,) November 2010; Talk

UWM Undergraduate Research Symposium: *Is the simplest model the most desirable? Parsimony in a lake ecosystem*. (Béchette, A. Hughes A., C. Murphy, T. Stojsavljevic, M. Tessmer) April 2010; Poster Presentation

- The presentation was awarded the symposiums first prize in the Natural Sciences category.

RECENT SERVICE

Judge for UWM Undergraduate Research Symposium April 2019, 2018, 2014

AWM student chapter outreach at Oostburg Christian School	February 2019
Chair for MAA General Contributed Paper Session on Applied Mathematics II at Joint Mathematics Meeting Baltimore, MD	January 2019
Chair for AMS Contributed Session on Modeling Disease and Biological Processes at Joint Mathematics Meeting San Diego, CA	January 2018
Moderator for the MAA Wisconsin Regional Meeting	April 2017
Organized UWM Graduate Student Research Symposium	October 2016

TEACHING EXPERIENCE

<i>Teaching Assistant</i> University of Wisconsin-Milwaukee, Milwaukee, WI	September 2012 –May 2019
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Primary instructor for the following courses:

- Math 092/102: Mathematical Literacy for College Students I/II (co-requisite flipped classroom model for non-STEM majors)
- Math 098: Algebraic Literacy I (developmental math course)
- Math 105: Introduction to College Algebra
- Math 116: College Algebra
- Math 117: Trigonometry
- Math 211: Survey in Calculus and Analytical Geometry
- Math 231: Calculus and Analytical Geometry I
- Math 232: Calculus and Analytical Geometry II

Taught discussion sections for the following courses:

- Math 105: Introduction to College Algebra
- Math 211: Survey in Calculus and Analytical Geometry
- Primary responsibilities: office hours, grading, discussion of homework problems, and exam reviews

Grader for Math 321: Vector Analysis

<i>Graduate Student Mentor for NSF Supported Undergraduate Research in Biology and Mathematics UBM Program</i>	January 2015 –May 2016
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- Conducted study sessions for the mathematical modeling sequence Math 405/Math 675
- Advised undergraduate students on research projects, poster presentations, and conference presentations

<i>Mathematics Teacher</i> UWM Upward Bound Trio & Precollege Programs	Summers 2015, 2016, 2017, 2019
• Primary instructor for AP Calculus	

<i>Classroom Aid</i> Preparation for College Mathematics/Beginning Algebra Intermediate Algebra Combined	September 2008 –May 2012
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- I worked with students one on one answering questions ranging from basic algebra and geometry up to Pre-Calculus using the ALEKS software.

Classroom Aid

June 2011 –August 2011

Student Support Services Summer Bridge Program

- Made program announcements, graded worksheets, and generated assessments