



MAHESHAN EKANAYAKA

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EDUCATION

Doctor of Philosophy | *Mathematics: GPA: 3.943*

2019 – present

The University of Toledo, USA

Phd Advisor : Dr. Ekaterina Shemyakova

Research Project : Berezinian and Super Exterior Derivatives

Selected Courses

- Topology
- Algebra
- Partial Differential Equations
- Ordinary Differential Equations
- Real Analysis

Bachelor of Science | *Major: Mathematics, Minor: Physics*

2011 – 2015

The University of Colombo, SriLanka

Selected Courses

- Discrete Optimization With Computer Applications
- Actuarial Mathematics
- Partial Differential Equations and their Applications
- Mathematical Modeling in Economics and Business
- Numerical Analysis
- Theory of Interests and Cooperate Finance

WORK EXPERIENCE

Graduate Teaching Assistant

2019 – present

The University of Toledo

- Working as an Instructor for Math Modeling and Problem Solving(Flipped classroom model).
- Worked as an Instructor for College Algebra.

Responsibilities and Duties

- * Plan and organize instruction according to approved course learning objectives.
- * Delivering engaging and effective lectures incorporating active learning.
- * Evaluate student performance through quizzes, exams, and group activities, and provide formative feedback.
- * Maintain current, accurate records of course enrollment, attendance, student academic progress(via starfish), course curriculum, and student learning outcomes
- * Working in learning management systems like Blackboard, ALEKS and My Lab.

- * Closely working with university's disability and accommodation services to accomadate students requests.
- * Extending extra supports for students by posting office hours.
- * Participate in an online course design workshop offered by the University of Toledo.
- * Directing students to appropriate resources, such as the counseling center, tutoring center, success coach, etc., when they need extra support.
- Worked as a Recitation Instructor for Calculus for Life Science
- Worked as a Recitation Instructor for Single Variable Calculus
- Worked as a Grader
 - * Elementary Multi-variable Calculus
 - * Elementary Differential Equations
 - * Numerical Math and Linear Algebra
 - * Calculus II
- Worked as a Tutor in the Learning Enhancement Center

QA Engineer 2017 – 2019
Codegen International

Teaching Assistant 2016 – 2017
The University of Colombo

- Worked as a Teaching Assistant for Discrete Mathematics
- Worked as a Teaching Assistant for Financial Mathematics

PEDAGOGICAL TRAINING

Online Course Design Certificate 2023
The University of Toledo

- Write measurable learning objectives.
- Apply the concept of alignment in online module design.
- Gather and create meaningful instructional materials to support student learning
- Select appropriate instructional strategies and technologies for learning activities and assessment.
- Apply best practices in online course design.
- Build an online module using Blackboard Ultra.

Online Teaching Certificate 2023
The University of Toledo

Redesign Your Course For Mastery Grading 2023
Mathematical Association of America

Mathematics and Wolfram Language for Mathematics Research and Study 2023
Wolfram U

RESEARCH PROJECTS

Berezinian and Super Exterior Algebras 2021-present
My research area focuses on algebraic structures in supergeometry.

Leontief Input Output Models in Economics 2014-2015

MENTORING EXPERIENCE

Mentoring a math summer project for biology major undergraduate student 2024
The University of Toledo, Toledo, Ohio

CONFERENCES AND PRESENTATIONS

Research talk at the Washington and Lee University Washington and Lee University, Lexington, Virginia	2025- Scheduled
Research talk at the Spring Meeting of the Ohio Section of the MAA The Ashland University, Ashland, Ohio	2024
Research talk at the AMS Graduate Student Chapter The University of Toledo, Toledo, Ohio	2024
A Talk about Stereographic Projection and its Applications for Engineering Students Siena Heights University, Adrian, MI	2024
Joint Mathematical Meeting(Participation) Boston, USA	2023
Supergeometry and Bracket Structure in Mathematics and Physics(Participation) The Field Institute, Toronto, Canada	2022

SERVICE AND OUTREACH

Moderator for the contributed paper session in the Ohio Section of the MAA The Ashland University, Ashland, Ohio	2024
A Judge for Northwest Ohio Science and Engineering Fair Northwest State Community College, Archbold, Ohio	2024
A Judge for District Science Day organized by The Ohio Academy of Science The Ohio Northern University, Ada, Ohio	2024
President of the AMS Graduate Chapter The University of Toledo, Toledo, Ohio <ul style="list-style-type: none">• Organized Trivia Night, PI day for undergraduate and graduate students.• Organized graduate student seminars	2023-2024
Secretary of the AMS Graduate Chapter The University of Toledo, Toledo, Ohio <ul style="list-style-type: none">• Organize Trivia Night, PI day for undergraduate and graduate students• Organize graduate student seminars	2021-2023
Former Area Director Toastmaster Club, Toledo, Ohio	2019-2021
Former Vice President Westgate Toastmaster's Club Toastmaster Club, Toledo, Ohio	2019-2021

DIVERSITY, EQUITY AND INCLUSION

The Facilitator for STEM-Allies Workshop for Graduate Students The University of Toledo, Toledo, OH	2024
Faculty Allies Workshop with ADVANCE UToledo and BGSU ALLIES Project The University of Toledo, Toledo, OH	2023

TECHNICAL SKILLS

Languages: English
Programming: Python (NumPy), MATLAB, Mathematica, Java
Document Creation: Microsoft Office Suite, LaTeX

REFERENCE

Dr. Ekaterina Shemyakova,(Research) Research Advisor Department of Mathematics The University of Toledo ekaterina.shemyakova@utoledo.edu	Dr. Theodore Voronov, (Research) Department of Mathematics The University of Manchester theodore.voronov@manchester.ac.uk
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Dr. Wenqi Zhao,(Teaching) Department of Mathematics The University of Toledo wenqi.zhao@utoledo.edu	Dr. Vani Cheruvu, (Teaching) Department of Mathematics The University of Toledo vani.cheruvu@utoledo.edu
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