Kürşat Yılmaz

CONTACT INFORMATION	Department of Mathematics and Statistics kursat.yilmaz@rockets.utoledo.edu University of Toledo Toledo, OH, USA			
RESEARCH INTERESTS	Low Dimensional Topology, Symplectic Geometry, Dynamical Systems, Hamiltonian Mechanics			
Education	University of Toledo, Toledo, Ohio			
	PhD, Mathematics, Expected May 2025 Thesis Title: Contact Geometry of the Restricted Three-body Problem on the Unit Sphere			
	• Advisor: Alessandro Arsie Middle East Technical University (METU), Ankara, Turkiye			
	M.S., Mathematics, June 2018 Thesis Title: Tight Contact Structures on Small Seifert Fibered Spaces			
	Advisor: Mehmet Fırat Arıkan			
	Middle East Technical University, Ankara, Turkiye			
	B.S., Mathematics, June 2015			
Work Experience	University of Toledo, Teaching Assistant 2019 - Presen			
	MathCorps in University of Toledo Summer 2024			
	METU, Teaching Assistant October 2015 - 2019			
	Yandex, Turkiye, Search Engine Assessor 2014 - 20			
Papers and Preprints	• Contact Geometry of the Restricted Three-Body Problem on \mathbb{S}^2 (with Alessandro Arsie) (Preprint)			
Awards and Grants	• Excellence in Teaching, MathCorps, Summer 2024			
	• Certificate of Excellence (Tutoring) 2024, Utoledo			
	• Certificate of Excellence (Tutoring) 2020, UToledo,			
	• Graduate Course Performance Award (Best Student in MS program) 2017, METU,			
	• Asian and European Schools in Mathematics - CIMPA, France, Directed Reading Program Turkiye 2024, €4000,			
	• Asian and European Schools in Mathematics - CIMPA, France, Directed Reading Program Turkiye 2023, €4000			
	• Existence of Tight Contact Structures on Closed Hyperbolic 3-Manifolds, BAI Project (BAP-20180092) (Researcher) 2016, METU.			

TEACHING EXPERIENCE

Middle East Technical University

Ankara, TURKIYE

MATH 117 - Calculus I

MATH 118 - Calculus II

MATH 119 - Calculus with Analytic Geometry

MATH 120 - Calculus of Functions of Several Variables

MATH 250 - Advanced Calculus in Statistics

MATH 251 - Advanced Calculus I,

MATH 252 - Advanced Calculus II

MATH 367 - Abstract Algebra

University of Toledo

Toledo, OHIO

MATH 1320 - College Algebra - Instructor

MATH 1850 - Calculus I

MATH 1860 - Single Variable Calculus II

MATH 2860 - Elementary Differential Equations

MATH 2890 - Numerical Methods and Linear Algebra

RESEARCH TALKS

Contact Geometry of the Restricted 3-Body Problem on the Unit Sphere, Buckeye Metric Geometry Workshop, August 16-18, 2024, Ohio State University

Contact Geometry of the Restricted 3-Body Problem on the Unit Sphere, 49th Annual Mathematics Conference, Sep 30, 2023, Miami University, Ohio

Contact Geometry of the Restricted 3-Body Problem on the Space of Positive Constant Curvature,

Georgia Topology Conference, May 25, 2023, University of Georgia.

Restricted 3-Body Problem on the Space of Constant Curvature, Colloquium, May 10, 2023, Yozgat Bozok University.

Contact Geometry of the Restricted 3-body Problem on 2-Sphere, UToledo AMS-Graduate Student Seminars, February 6, 2023.

Tight Contact Structures on Brieskorn Homology Spheres $\Sigma(2,3,6n+1)$, Tech Topology Conference, December 8, 2019, Georgia Institute of Technology.

Topological Surgery in 3-dimensional Manifolds,

Graduate Seminar, October 2 and October 16, 2019, University of Toledo.

Tight Contact Structures on Some Small Seifert Fibered Spaces, Differential Equations and Nonlinear Analysis, September 10 and September 24, 2019, University of Toledo.

Tight Contact Structures on Small Seifert Fibered Spaces,

Geometry-Topology Seminar, November 5, November 12 and November 19, 2018, METU.

Tight Contact Structures on The Brieskorn Homology Spheres,

Winter Workshop 2017, Gökova Geometry Topology Institute, December 25–29, 2017, Turkiye.

Obstructing Pseudo-Convex Embeddings of Brieskorn Spheres in Complex 2-Space,

Graduate Seminar, April 25, 2017, METU.

Conferences,
Workshops and
SUMMER SCHOOLS

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Big	Ideas	in	Dynamics

University of Illinois Chicago, Chicago, IL September 2024

Buckeye Metric Geometry Workshop

Ohio State University, Columbus, OH August 2024

49th Annual Mathematics Conference

Miami University, Oxford, OH September 2023

Northwestern 2023 Dynamics Summer School

Northwestern University, Evanston, IL June 2023

2023 Georgia Topology Conference

University of Georgia, Athens, GA May 2023

27th Gökova Geometry and Topology Conference

Gökova, Turkiye May 2022

2022 Midwest Dynamical Systems Conference

IUPUI, Indianapolis, IN November 2022

Lie Theory and Poisson Geometry

CIRM, Marseille, France January 2022

A Brief Introduction to Ergodic Theory

Virtual, organized by IMPA, Brazil August 2021

Nijenhuis Geometry and Applications

Virtual August 2021

Miniworkshop on Hamiltonian Systems and Group Actions

Virtual June 2021

Invariant Manifolds in Celestial Mechanics and Astrodynamics

Virtual, organized by IMPA, Brazil

June 2021

Floer Theory and Hamiltonian Dynamics on Non-Compact Hypersurfaces Virtual January 2021

The Eight Pacific Rim Conference in Mathematics

Virtual August 2020

Dynamics on Your Screen

Virtual August 2020

Tech Topology Conference

Georgia Institute of Technology, Atlanta, GA

December 2019

Midwest Several Complex Variables Conference

University of Michigan-Dearborn, Dearborn, MI October 2019

26th Gökova Geometry and Topology Conference

Gökova, Turkiye

May 2019

Algebraic Topology: Methods, Computation and Science (ATMCS8)

IST-Austria, Klosterneuburg, Vienna, Austria

 $\mathrm{June}\ 2018$

 ${\bf 25} {\bf th}$ Gökova Geometry and Topology Conference

Gökova, Turkiye

May 2018

Winter Workshop 2017, Gökova Geometry Topology Institute

Gökova, Turkiye

December 2017

Applied Topology in Bedlewo 2017

Bedlewo, Poland

June 2017

24th Gökova Geometry and Topology Conference

Gökova, Turkiye

May 2017

I. Summer School of Association for Turkish Women in Maths

METU, Ankara, Turkiye

June 2016

OUTREACH AND SERVICES

- Mentor and Teacher MathCorps at UToledo Summer 2024
- Mentor and Organizer Directed Reading Program Turkiye 2023 2024
- Treasurer AMS Graduate Student Chapter 2021-2023
- Mentor Directed Reading Program Turkiye 2022
- Treasurer Turkish Mathematical Society, Ankara Branch 2018-2019