ÖZLEM UĞURLU

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employment

•	Saint Louis University Assistant Professor, Department of Mathematics and Statistics	Saint Louis, MO 2021 - Present
•	Palm Beach State College Professor I, Department of Mathematics	Boca Raton, FL 2018 - 2021
lucat	ion	
•	Tulane University Ph.D. in Mathematics	New Orleans, LA May 2018
•	Dokuz Eylul University Master of Science in Mathematics	Izmir, Turkey June 2012
•	Dokuz Eylul University Bachelor of Science in Mathematics	Izmir, Turkey June 2010
ıblica	ations	
6.	On Minimal Symplectic Alternating Algebras Joint work with Layla Sorkatti and Manisha Varahagiri https://doi.org/10.48550/arXiv.2311.11987, (To appear)	2023
5.	K-Orbit Closures and Hessenberg Varieties Joint work with Mahir Bilen Can, Martha Precup, and John Shareshian https://doi.org/10.48550/arXiv.2309.05770, (To appear)	2023
4.	DIII clan combinatorics for the orthogonal Grassmannian Joint work with Aram Bingham Australasian Journal of Combinatorics, Volume 79(1), Pages 55—86 https://ajc.maths.uq.edu.au/pdf/79/ajc_v79_p055.pdf	2021
3.	Sects and lattice paths over the Lagrangian Grassmannian Joint work with Aram Bingham The Electronic Journal of Combinatorics, Volume 27, Issue 1, Paper No. 1.51, 28 https://doi.org/10.37236/8664	2020
2.	The genesis of involutions (polarizations and lattice paths) Joint work with Mahir Bilen Can Discrete Mathematics, Volume 342, Issue 1, Pages 201-216 https://doi.org/10.1016/j.disc.2018.09.026	2019
1.	Counting Borel Orbits in Symmetric Varieties of Types BI and CII Joint work with Mahir Bilen Can Arnold Mathematical Journal, 4, 213–250 https://doi.org/10.1007/s40598-018-0092-3	2018

presentations

25.	Hessenberg varieties and K-Orbit Closures,	January 10, 2025
	AMS Contributed Papers, Commutative Algebra and Algebraic Geometry,	
	2025 Joint Mathematics Meeting in Seattle, WA	

24.	Combinatorics and Geometry of Flag Varieties, Colloquium, Hunter College, New York, NY	December 19, 2	2024
23.	Understanding Hessenberg varieties through K-Orbit Closures, Southern Regional Algebra Conference (SRAC), University of Houston-Downtown, House	March 23, 2 uston, TX	2024
22.	Bridging Algebra, Geometry, and Combinatorics: Toric Varieties, AWM Student Chapter at Saint Louis University, Saint Louis, MO	March 25, 2	2024
21.	Transforming Classroom Dynamic through Active Learning, Education Colloquium, Saint Louis University, Saint Louis, MO	February 25, 2	2024
20.	A Brief Introduction to Ehrhart Theory, AWM Student Chapter at Saint Louis University, Saint Louis, MO	October 23, 2	2023
19.	Mathematics in Secure Communication, Math Club at Saint Louis University, Saint Louis, MO	April 13, 2	2022
18.	DIII Clan Combinatorics for the orthogonal Grassmannian, Combinatorics Seminar, Washington University in Saint Louis, MO	March 28, 2	2022
17.	Clans, Sects and Lagrangian Grassmannians, Colloquium, Saint Louis University, Saint Louis, MO	March 25, 2	2022
16.	Why did the Mathematician Cross the Road, AWM Student Chapter at Saint Louis University, Saint Louis, MO	November 15, 2	2021
15.	Gradescope: Streamline Grading While Providing Detailed Feedback, Palm Beach State College Professional Development Day, Lake Worth, FL	March 26, 2	2019
14.	Borel Orbits and Lattice Paths, MAA Florida Section Joint Annual Meetings 2019, Polk State College, Lakeland, FL	February 16, 2	2019
13.	The Genesis of Involutions, Special Session in "Combinatorial Representation Theory", AMS Eastern Section Meeting at Northeastern University, Boston, MA	April 21, 2	2018
12.	Counting Borel Orbits in Symmetric Varieties of Types BI and CII, CombinaTexas 2018, Texas A & M University, College Station, TX	February 11, 2	2018
11.	Borel Orbits in Polarization and Lattice Paths, Pure Mathematics Seminars, University of South Alabama, Mobile, AL	January 19, 2	2018
10.	Counting Borel Orbits in Polarizations,NConference on commutative algebra and representation theory atTulane University, New Orleans, LA	November 8-10, 2	2018
9.	Enumeration on Borel Orbits in Symmetric Varieties of Types B and C , Algebra and Combinatorics Research Seminars at Tulane University, New Orleans, LA	February 16, 2	2018
8.	K-Orbits in the Flag Variety and Clans, Graduate Student Seminars at Tulane University, New Orleans, LA	November 14, 2	2017
7.	The Genesis of Involutions, Algebra and Combinatorics Research Seminars at Tulane University, New Orleans, LA	November 2, 2	2017
6.	PhD in Mathematics, Graduate Student Panel at Tulane University, New Orleans, LA	October 2, 2	2017
5.	Focus on Women in STEM, Graduate Student Panel at Tulane University, New Orleans, LA Breakout Session,	October 2, 2	2017
4.	Toric Varieties, Graduate Student Seminars at Tulane University, New Orleans, LA	November 19, 2	2015

3.	Geometry and Combinatorics of Toric Varieties, Dokuz Eylul University, Graduate Student Seminars, Izmir, Turkiye	December 05, 2011
2.	Homology Group of Cell Complexes, Dokuz Eylul University, Geometry-Topology Seminars, Izmir, Turkiye	April 20, 2010
1.	Intersection Forms, Dokuz Eylul University, Geometry-Topology Seminars, Izmir, Turkiye	May 17, 2010

teaching

Saint Louis University

- MATH 1660 Discrete Mathematics Spring 2024, Fall 2024 (31 students) & 34 students), Spring 2024 (31 students & 35 students), Fall 2023 (29 students & 21 students), Spring 2023 (20 students), Summer 2022 (3 students), Spring 2022 (28 students), Fall 2021 (25 students)
- MATH 1510 Calculus I Fall 2023 (27 students), Spring 2023 (27 students & 26 students), Fall 2022 (31 students)
- MATH 1520 Calculus II Summer 2024 (27 students), Summer 2023 (14 students), Fall 2022 (29 students)
- MATH 2530 Calculus III Fall 2024 (31 students), Spring 2022 (11 students), Fall 2021 (20 students & 12 students)
- MATH 3120 Intro to Linear Algebra Spring 2022 (10 students)
- MATH 3600 Combinatorics Spring 2024 (18 students)
- MATH 5980 Graduate Reading Course (in Combinatorics) Spring 22 (1 student)
- MATH 5140 Algebraic Combinatorics, Spring 2025 (9 students)

Palm Beach State College

The average class size in the Mathematics Department was 30 students.

- MAC 2311 Calculus I, Fall 2020, Summer 2020,
- MAC 2312 1520 Calculus II, Spring 2021, Fall 2020, Summer 2019
- MAC 2313 Calculus III, Summer 2020, Summer 2019
- STA 2023 Statistics, Summer 2021
- MAC 2233 Survey of Calculus, Summer 2020,
- MAC 1147 Precalculus Algebra and Trigonometry, Summer 2020
- MAC 1114 Precalculus, Spring 2021, Fall 2020, Spring 2020, Fall 2019, Summer 2019, Fall 2018
- MAC 1105 Trigonometry, Spring 2021, Fall 2020, Spring 2020, Fall 2019, Summer 2019, Spring 2019, Fall 2018
- MAC 1105 College Algebra, Fall 2020, Spring 2020, Spring 2019, Fall 2019, Spring 2019, Fall 2018
- MAT 1033C Intermediate Algebra, Spring 2021, Fall 2020, Spring 2020, Fall 2019, Spring 2019, Fall 2018

Tulane University

New Orleans, LA

• Long Calculus II, Spring 2018

Boca Raton, FL

Saint Louis. MO

mentoring and advising

Undergraduate Mentoring Research Projects	
• Combinatorics of Young Tableaux Supervisor of undergraduate Preet Kaur	Fall 2024 - Spring 2025
• Survey in Algebraic Geometry Supervisor of graduate Mahak Jauhri	Fall 2024
• Statistic of Parking Functions Supervisor of undergraduate Kieran Favazza	Summer 2022
• Supervisor of undergraduate Tianhao Zhang for Honor Project	Summer 2020
• Supervisor of undergraduates Rebecca Salto Laino, Renzo Laino for Honor Proje	ects Fall 2020
Mentoring Through Programs	
• Co-Founder of Mentoring Math Minds Program Fall 2024 Developed and co-leading a research mentoring program for graduate and undergraduate students interested in mathematical research and professional development with a DEI component with Dr. Elodie Pozzi and Dr. Dorsa Ghoreishi.	
• Mentor in Audre Lorde Scholars Program A non-monetary program at Saint Louis University to promote academic excellence and mentorship amon students who identify as women of color	
• Mentor in Mentor Network A program designed by the Association for Women in Mathematics to provide n girls and women.	$Fall \ 2022$ - nentoring opportunities to

professional services and activities

Committee Work

11. Chair of AWM-MAA Etta Zuber Falconer Lecture Selection Committee	Fall 2025
10. Member of AWM-MAA Etta Zuber Falconer Lecture Selection Committee	February 2023 - 2026
9. Member of Committee on Minicourses MAA	July 2022 - 2027
8. Member of Saint Louis University Colloquium Committee	Fall 2021 -
7. Chair of Missouri MAA Section Nominating Committee	Fall 2023 - Spring 2024
6. Member of Lower Division Committee at Saint Louis University	Fall 2021 - Spring 2022
5. <i>Member</i> of HSI Title III Project Math Curriculum Refinement Team Florida Atlantic University with partners Palm Beach State College & Broward C	Fall 2019 - Spring 2021 College
4. Member of College Affordability Task Force at Palm Beach State College	Fall 2020 - Spring 2021
3. Member of OER Promotion Subcommittee	Fall 2020 - Spring 2021
2. Member of Online Educational Resources Subcommittee	Fall 2020 - Spring 2021
1. Member of MAC1105 Curriculum Redesign Committee	Fall 2018
Program, Workshops, and Conference Organization	
8. Local organizer of 2025 Fall AMS Central Sectional Meeting, Saint Louis, MO	October 18-19, 2025
7. <i>Co-organizer</i> of a special session on combinatorics and geometry of flag varieties at 2025 Fall Central Sectional Meeting, Saint Louis, MO.	October 18-19, 2025

6	6. Program Chair of 2025 Spring MAA Sectional Meeting, Saint Louis, MO	April 15 - 7, 2025
Ę	5. Co-organizer of the session on effective grading at MathFest Indianapolis, IN	August 7, 2024
4	A. Co-organizer of Sonia Kovalevsky Day at Washington University in Saint Louis	April 5, 2024
ć	3. Co-coordinator of Project NExT sessions at JMM 2024, San Francisco, CA	January 4 - 7, 2024
2	2. Co-organizer of Math Awareness Week, Palm Beach State College	Fall 2018 - Spring 2021
1	. Co-organizer of The Play + Think = Win Competition, Palm Beach State College	e Fall 2018

awards & honors & grants

9. Student Athletes Straight-A Luncheon Invitee	2024
8. Project NExT Fellow, Green 23' Cohort	2023
 Saint Louis University, Stolle Fund, Fall 2024, Spring 2024, Fall 2023, Spring 2023, and Fall 2022 	
6. Edfinity Affordable Learning Grant supported by the National Science Foundation	2021
5. Member of the Tulane Graduate Honor Board	2015-2017
4. Tulane Graduate Student Summer Research Grant	2015-2017
3. The Scientific and Technological Research Council of Turkey, National Scholarship Program for PhD Students	2012 - 2013
2. The Scientific and Technological Research Council of Turkey, National Scholarship Program for MSc Students	2010-2012
 Graduation Award from Dokuz Eylul University, Ranked first among the Faculty of Arts and Sciences graduates of the bachelor's of 2009-2010 academic year. 	2010 degree programs in the