	Yandi Wu			
University of Wiscon Department of Matl Madison, WI 53706		yandi.wu@wisc.edu https://www.math	ı n.wisc.edu/~ywu495	
Education	University of Wisconsin, Madison PhD Mathematics, Advisors: Tullia Dymarz, Minor in Computer Science	Caglar Uyanik	2018 - 2024 Madison, WI	
	University of California, Berkeley BA Mathematics (High Honors)		2014 - 2018 Berkeley, CA	
	Budapest Semesters in Mathematics Semester Abroad		Fall 2017 Budapest, Hungary	
Research Interests	s Low-dimensional topology, geometric group the rigidity theory, including applications to orbi			
Publications & Preprints	<ol> <li>A Topologically Rigid Set of Quotients of the Davis Complex.</li> <li>Geom. Dedicata, 217 (2023), 1-20.</li> </ol>			
	<ol> <li>Marked Length Spectrum Rigidity for S arXiv Preprint, 2023.</li> </ol>	Surface Amalgams.		
Honors & Awards	Excellence in Research Graduate Stude "For significant and substantial contributions		2023 Madison, WI	
	Elizabeth S. Hirschfelder Award "For exceptional research done by a female g	raduate student"	2022 Madison, WI	
	Outstanding Service Award "For special service to the department"		2022 Madison, WI	
	Outstanding TA Award "For excellence in the classroom across multi	ple semesters"	2021 Madison, WI	
Invited Talks (Conferences)	AMS Central Sectional Meeting (Milwaukee, Special session in developments in hyperbolic		April 2024 dynamics	
	Joint Math Meetings (San Francisco, CA) Special Session in Geometric Group Theory		Jan 2024 Jan 2024	
	World of GroupCraft III (online)		Sept 2023	

Spring Topology and Dynamics Seminar (online)

Wesleyan University Topology, Geometry, & Dynamics Seminar

University of Minnesota, Twin Cities Geometry Seminar

Vanderbilt University Topology & Group Theory Seminar

Special Session in Geometric Group Theory

**Invited Talks** 

(Seminars)

 ${\rm Mar}~2023$ 

 $\mathrm{Dec}\ 2023$ 

Nov 2023

Nov 2023

	Brandeis University Topology Seminar	Nov 2023
	University of Illinois, Chicago Geometry, Topology, & Dyna	amics Seminar Nov 2023
	University of Wisconsin, Madison Dynamics Seminar	Oct 2023
	Rice University Topology Seminar	Aug 2023
	University of Wisconsin, Milwaukee Topology Seminar	April 2023
	The Ohio State University Topology and GGT Seminar	Nov 2022
	BSU-Toledo Joint Geometry and Topology Seminar	Sept 2022
Contributed Talks	Underrepresented Students in Topology and Algebra Research Symposium Mar 2023	
Service & Outreach	AMS Student Chapter Seminar Co-organizer	Spring 2021 - Spring 2023 Madison, WI
	Committee on TA Policies and Procedures Graduate Student Representative	Fall 2021- Spring 2022 Madison, WI
	Gender Minorities in Mathematics At Wisconsin Co-organizer	Fall 2020 - Spring 2022 Madison, WI
Mentoring	Madison Experimental Mathematics Lab Project: Hyperbolic Geometry and Crochet Graduate mentor for four undergraduate students	Spring 2023 Madison, WI
	Big Ideas in Dynamics Fall 202 Topic: Length functions on currents and applications to dynamics & counting Online Graduate Mentor for graduate reading group	
	Madison Experimental Mathematics Lab Project: Random Symmetrics of Hyperbolic Space Graduate mentor for four undergraduate students	2022 - 2023 Madison, WI
	Girls' Night Out Project: Mathematics of Epidemics Graduate Mentor for three high school students	Spring 2020 Madison, WI
	Directed Reading Program  Topic: Office Hours with a Geometric Group Theorist Graduate mentor for three undergraduate students	Fall 2018 Madison, WI
Outreach Talks	SIAM Student Chapter Seminar How I landed my summer internship	Mar 31, 2023
	UW Madison Math Circle Cut and Paste Topology	Feb 2019, Sept 2021 Madison, WI
Teaching Experience	Instructor Math 131 (Problem solving in Algebra, Geometry, and Sta	Madison, WI tistics) Summer 2021

#### Teaching Assistant Coordinator

Madison, WI

Fall 2021\*, Spring 2021\*, Fall 2020, Spring 2020\* Math 234 (Calculus III) Math 222 (Calculus II)

Fall 2022\*, Spring 2023\*

Fall 2019

Math 221 (Calculus I)

## Teaching Assistant

Madison, WI

Math 222 (Calculus and Analytic Geometry II)

Fall 2018, Spring 2019\*

\* Received "superior" rating awarded to top 30% of TAs every semester

### Industry Experience

#### Reddit, Ads Prediction Team

New York, NY Summer 2023

Data Science Intern

- Machine Learning: Implement model calibration techniques to decrease calibration error of decision tree model in production by up to 30 percent.
- Data Science: Build Mode dashboards to visualize how different sectors, such as geographic location, ad industry, and user frequency, affect model calibration.
- Present on state-of-the-art model calibration techniques for modern Deep Neural Networks at company-wide Ads Journal Club.

# US Army Corps of Engineers, Geospatial Research Lab NSF Mathematical Sciences Graduate Internship Program

Alexandria, VA Summer 2022

- Computer vision: Implement automated building damage assessment by GPUpowered neural networks on satellite images of natural disaster sites.
- Transfer Learning: Implement domain adaptation techniques that increased model accuracy by up to 6 percent.
- White paper, Transfer Learning Techniques for Building Damage Assessment, and NSF MSGI Research Symposium slides available on website.