Neža Žager Korenjak, PhD

Postdoctoral researcher, MPI Leipzig \Leftrightarrow https://neznez.github.io/ \Leftrightarrow neza.zager@mis.mpg.de Research interests: hyperbolic & affine geometry, (higher) Teichmuller theory, geometric group theory

Education	University of Texas at Austin Ph.D. Program in Mathematics advisor: Jeffrey Danciger	Spring 2023
	University of Ljubljana Bolognia second cycle master's study program, Mathematics Master's thesis: <i>Hypercyclic Operators</i> \diamond advisor: Roman Drnovšek	2016
	Bolognia first cycle academic study program, Mathematics Undergraduate thesis: $Theorems$ on $Compactness \diamond$ advisor: Žiga Virk	2014
Papers	Proper affine deformations of positive representations. Joint with JP. Burelle. arXiv: 2405.14658	2024
	Constructing proper affine actions via strip deformations. arXiv: 2205.14712 (submitted)	2022
	Theorems on compactness. Overview article. Matrika 1 (2014) 4.	
Research talks &	Proper affine deformations of positive representations University of Texas in Austin geometric geometry seminar	April 2024
presentations	Constructing proper affine actions via higher strip deformations Diverse Aspects of Groups, Geometry and Dynamics, Heidelberg University.	September 2023
	Constructing proper affine actions via higher strip deformations University of Maryland geometry seminar	December 2022
	Constructing proper affine actions via higher strip deformations University of Virginia geometry seminar	September 2022
	Constructing proper affine actions via higher strip deformations Nearly carbon neutral topology & geometry conference (virtual.)	September 2022
	Constructing proper affine actions GT GAPS (virtual.)	July 2022
	Proper affine actions of free groups, lightning talk. Geometry, Arithmatic, and Groups, UT Austin	June 2022
	Constructing proper affine actions of Fuchsian groups, poster presentation. Graduate student topology and geometry conference, Georgia Tech	April 2022
	Constructing proper affine actions TWIMS 2022, Rice	February 2022
	Constructing proper affine actions The University of Sherbrooke, SAG seminar	October 2021
	Constructing proper affine actions, contributed talk GTA Philadelphia (virtual.)	May 2021
	Constructing proper affine actions, contributed talk Graduate student topology and geometry conference (virtual.)	April 2021

Teaching	Assistant Instructor at the University of Texas at Austin Learning assistant experience in math (M 371E) A class for undergraduates about math pedagogy, where they get hands-on	Fall 2021 - present
	experience tutoring at CalcLab, which I am also organizing. Summer mini-course leader Measured laminations and train tracks Led a weeklong online course aimed at graduate students as part of UT's Summer minicourse program	Summer 2021
	Mentor at the University of Texas at Austin's Geometry Lab Mentored a small group of undergraduates in a computer visualization problem in projective geometry, helped make the project's website	Spring 2021
	Teaching Assistant at the University of Texas at Austin Differential Equations with Linear Algebra (M 427J) Honors Advanced Calculus for Applications II (M 427L) Advanced Calculus for Applications II (M 427L) Differential Calculus (M 408K)	Spring 2020 Fall 2019 Spring 2019 Fall 2018
	Teaching Assistant at the University of Ljubljana Computer Practical Mathematics 1, Grader	Fall 2015 Spring 2015 - Summer 2016
	Additional training and certificates Inclusive Classrooms Leadership Certificate Inclusive Instructor Certificate	UT Austin, 2022 UT Austin, 2022
Outreach	DRP Mentor at the University of Texas at Austin Mentored undergraduates in reading projects on hyperbolic geometry, knot theory, low-dimensional topology, number theory, differential geometry	Spring 2017 - present
	Volunteer at a tutoring pod at local middle school Helped middle school math teachers hold virtual office hours for students.	Fall 2020
	Speaker and volunteer at SMMG an outreach program about mathematics aimed at middle and high schoolers Regular volunteer & gave two talks: An invitation to non-Euclidean geometry	Spring 2020
	The Towers of Hanoi UT Math Club speaker	Fall 2018
	Hyperbolic geometry	Spring 2020
	Co-organizer and mentor of MaRS a Slovenian summer math camp for high schoolers	August 2015
	Volunteer tutor for undergraduate students at University of Ljubljana	Fall 2013- Spring 2016
	Leader and speaker of a math club for middle schoolers dealing with fun math problems and preparations for math competitions	2010-2011
Service	Graduate Representative serving on an elected committee of math grad students that helps deal with grad student concerns and well-being, organizes social and academic events, and helps mediate between students and faculty	2020-2021, 2022-2023
	Graduate Student Association Represented the math department graduate students in the legislative association of all UT Austin grad students	2020-2021
	Organizer of the Junior Topology Seminar The University of Texas at Austin	Spring 2020
	Co-organizer of the Geometric Topology seminar The University of Texas at Austin	Spring 2018-Spring 2022
	Co-organizer of the <i>Teichmuller theory learning seminar</i> The University of Texas at Austin	Spring 2019

	Co-organizer of Directed Reading Program, UT Austin pairing graduate students in mathematics and related fields with undergraduate students interested in getting started in mathematical research to work on a reading project together, and organising the symposium for students to present their work	Spring 2019 - Spring 2021
Honors and	Frank Gerth III teaching excellence award \diamond UT $Autin$	2020
Awards	Provost's Graduate Excellence Fellowship \diamond UT Austin	2016 - 2021
	State merit scholarship (Zois scholarship) rewarded by Republic of Slovenia	2007 - 2014
	Dean's Award for academic achievement in the first year of study University of Ljubljana	2012
	Honorable mention at International Mathematical Olympiad	2011
	Bronze medal at Middle-European Mathematical Olympiad	2010
Conferences attended	Nearly Carbon Neutral Geometric Topology \diamond virtual Geometry, Arithmetic, and Groups \diamond UT Austin	September 2022 June 2022
	Groups, Geometry and Dynamics \diamond Cargèse	June 2022
	GTA $Philadelphia \diamond$ $Temple$ $University$	May 2022
	Graduate Student Topology and Geometry Conference Georgia Tech	April 2022
	Texas Geometry and Topology Conference \diamond UT Dallas	February 2022
	$TWIMS \diamond Rice$	February 2022
	Virginia Topology Conference (Geometry and dynamics in hyperbolic space) University of Virginia	November 2021
	Workshop on Anosov representations \diamond Aussois	September 2021
	Beyond Hyperbolicity \diamond The Ohio State University	July 2021
	$Nearly\ Carbon\ Neutral\ Geometric\ Topology \diamond virtual$	June 2021
	GTA $Philadelphia \diamond virtual$	May 2021
	Graduate Student Geometry and Topology Conference University of Indiana Bloomington (virtual)	April 2021
	$Virtual\ Topology\ Festival\ \diamond \ NUS(virtual)$	January 2021
	$Nearly\ carbon\ neutral\ geometric\ topology \diamond virtual$	June 2020
	Aspects of Geometric Group Theory \diamond IHES	July 2019
	$yGGT\ VIII \diamond$ Bilbao	June 2019
	Young Topologists Meeting \diamond Copenhagen	July 2018
	Representation variees and geometric structures in low dimensions \diamond Warwick	July 2018
	Thin groups in Number Theory, Geometry and Topology \diamond Rice	May 2018
	Geometry of Teichmuller space and mapping class groups \diamond Warwick	April 2018
	Texas Geometry and Topology Conference \diamond UT Austin	November 2017
	Young Topologists Meeting \diamond Stockholm	July 2017
	Graduate Student Conference in Algebra, Geometry, and Topology Temple University	June 2017
	Graduate Student Conference in Geometry and Topology Michigan State University	April 2017
	Texas Geometry and Topology Conference \diamond Texas A&M	November 2016
	Summer School on Computational Topology \diamond University of Ljubljana	June 2015