Curriculum Vitae

Department of Mathematics rasazdan@ncsu.edu

Radmila Sazdanovic

NC STATE UNIVERSITY

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Education

2010	Ph.D., The George Washington University
	Advisor: Jozef Przytycki

2005 📕 Dipl.Mat. University of Belgrade, Department of Mathematics, Serbia

Professional Experience

2021 – · · · ·	Associate professor NC State
Fall 2022	Visitor DIOSCURI Centre in Topological Data Analysis, Max Planck Society and Mathematical Institute, Polish Academy of Sciences, Warsaw, Poland
2013 – 2020	Assistant Professor NC State
2014	Vistor Institute for Mathematics and Applications UMN, Minneapolis, MN
Summer 2012	Vistor Kavli Institute for Theoretical Physics, UCSB, CA
Summer 2011	Vistor Simons Center for Geometry and Physics, Stony Brook, NY
2010 - 2013	Postdoctoral Fellow , University of Pennsylvania
2010	Postdoctoral Fellow Mathematical Sciences Research Institute in Berkeley Special program on Homology Theories of Knots and Links

Honors and Awards

2020	Academy of Outstanding Faculty in Extension and Engagement NC State
2023	1st place, Envisioning Research Image contest Graphics and data visualization category for faculty and staff, NC State
2020	Outstanding Extension Award NC State
2016, 2018–19	Thank a Teacher Letter, NC State
2009	James H. Taylor Graduate Mathematics Prize George Washington University
2006	Marvin Green Prize George Washington University
2005-2010	Presidential Merit Fellowship George Washington University
2000	Scholarships for a promising generation Scholarship of the Royal Norwegian Embassy in Belgrade

Scholarship: grants

2024–2026	US Army/Princeton University Analysis and Computation of Topological Electro- magnetic Fields and Accelerating Waves.
2024–2029	NSF DMS– grant #2342344 RTG: Modeling and Uncertainty Quantification for Life Sciences, Senior personel.
2019–2025	NSF DMS– grant #1854705 Collaborative research: Computational topology and cat- egorification of cancer genomic data: theory and algorithms" PI \$200,000
2022–2024	American Institute of Mathematics SQuaRE grant Topological applications of Khovanov homology

Scholarship: grants (continued)

	American Institute of Mathematics SQuaRE grant Landscapes of knots 2022-2024
2019–2024	Simons Foundation Collaboration Grant \$42,000 (declined)
2023	1st place, Envisioning Research Image contest Graphics and data visualization category for faculty and staff.
2020-2022	NSF DMS – grant #1953892 Expanding Research and Professional Opportunities for Early-Career Female Mathematicians, \$36,550 2020-2021 PI
Summer 2022	Collaborate@ICERM grant "Topological applications of Khovanov homology and related link homology theories"
2021-2022	Mathematical Sciences Research Institute (MSRI) Summer Research for Women in Mathematics (SWiM) Program
2020	Okinawa Institute of Science and Technology Mini-symposium: Knot Theory in Oki- nawa travel grant
	R eviewer 36th International Symposium on Computational Geometry (SoCG 2020), Zurich, Switzerland
2017–2019	American Institute of Mathematics SQuaRE grant Persistence-Based Topological Summaries of Metric Graphs
2019	Collaborate@ICERM grant "A broken circuit model for chromatic symmetric homology"
2014–2019	Simons Foundation Collaboration Grant \$35,000
2016	International Scientific Committee Member Applied Topology: Methods, Computa- tion, and Science, Torino, Italy
2014–2015	N SF DMS Conference grant International Conference on Knots, Low-Dimensional Topology and Applications, Ancient Olympia, Greece Co-PI \$34,000
2015–2018	NSF DMS Conference grant "Knots in Washington" – A Conference Series on Knot Theory and its Ramifications, Co-PI \$83,998
2014–2015	N CSU Faculty Research and Professional Development (FRPD) grant \$4,000
2015	N SF DMS conference grant Conference on Knot Theory and its Applications to Physics and Quantum Computing Co-PI \$37,060
2013	Association for Women in Mathematics-NSF Travel Grant \$3,000
2012-2014	AMS Simons Foundation Travel Grant \$4000
2011	International Center for Theoretical Physics, Trieste, Italy Travel grant \$2,500
2007	R esearch Institute for Mathematical Sciences RIMS Kyoto, Japan Travel grant \$3,000,

Membership in Professional Organizations

2007-	AMS . American Mathematical Society
	AWM . Association for Women in Mathematics.
2016–2018	SIAM . Society of Industrial and Applied Mathematics

Scholarship: main contributions

Expertise: Low-dimensional topology, knot theory, categorification, applied algebraic topology, Topological data analysis (TDA) in biological sciences, engineering, knot and graph theory.

Scholarship: main contributions (continued)

- Proof of generalized Bendersky-Gitler conjecture from 1970 and relating Khovanov-like homology theories with factorization homology and configuration spaces; Applications of Khovanov homology in low-dimensional topology; Torsion in link and graph homology theories; 1st topological realizations of the Bernstein-Gelfand-Gelfand reciprocity via diagrammatic categorification of orthogonal polynomials; Stanley symmetric chromatic homology and planarity.
- Comparative methods for breast cancer subtype detection; categorification in cancer genomics
- TDA and ML methods in comparing knot invariants; intrinsic persistent homology for metric spaces, in particular, for metric graphs.

Scholarship Publications

Total: 57 (52 +5 in preparation). In most mathematics papers the authors are listed in alphabetical order and assumed to have approximately equal contributions.

Journal Articles

- J. Aslam and R. Sazdanovic, "Categorifying the chromatic polynomial of a hypergraphand the coloring complex," *Arxiv preprint*, Under revision.
- 2 C. Caprau, N. González, C. R. S. Lee, R. Sazdanović, and M. Zhang, "A whittled complex for the Khovanov homology of torus links," *Preprint*, In preparation.
- 3 M. Poukam, J. Aslam, R. Sazdanovic, and J. Arsuaga, "Topological data analysis identifies new cancer driver genes in luminal a patients," *Preprint*, In preparation.
- 4 R. Sazdanovic and D. Scoefield, "Data science approach to the Tutte polynomial," *Preprint*, In preparation.
- S. Sheth, J. Aslam, R. Sazdanovic, and J. Arsuaga, "Categorification of the aberration multigraph," *Preprint*, In preparation.
- P. Dłotko, D. Gurnari, and R. Sazdanovic, "Mapper-type algorithms for complex data and relations," *Journal of Computational and Graphical Statistics*, no. 33(4), pp. 1383–1396, 2024.
- E. Gasparovic, E. Purvine, R. Sazdanovic, B. Wang, Y. Wang, and L. Ziegelmeier, "A survey of simplicial, relative, and chain complex homology theories for hypergraphs," *arXiv preprint arXiv:2409.18310*, 2024.
- M. Khovanov and R. Sazdanovic, "Bilinear pairings on two-dimensional cobordisms and generalizations of the deligne category," *Fundamenta Mathematicae*, vol. 264, pp. 1–20, 2024.
- R. Sazdanovic and D. Scofield, "Structure of the chromatic polynomial," *arXiv preprint arXiv:2411.15088*, 2024, Accepted to Contemporary Mathematics.
- 10 A. Chandler, R. Sazdanovic, S. Stella, and M. Yip, "On the strength of chromatic symmetric homology for graphs," *Advances in Applied Mathematics*, vol. 150, p. 102 559, 2023.
- M. Miller, N. Johnston, I. Livengood, M. Spinelli, R. Sazdanovic, and M. S. Olufsen, "A topological data analysis study on murine pulmonary arterial trees with pulmonary hypertension," *Mathematical Biosciences*, vol. 364, p. 109 056, 2023.
- J. Aslam, S. Ardanza-Trevijano, J. Xiong, J. Arsuaga, and R. Sazdanovic, "TAaCGH suite for detecting cancer—specific copy number changes using topological signatures," *Entropy*, vol. 24, no. 7, p. 896, 2022.
- A. Chandler, A. M. Lowrance, R. Sazdanović, and V. Summers, "Torsion in thin regions of khovanov homology," *Canadian Journal of Mathematics*, vol. 74, no. 3, pp. 630–654, 2022.
 - A. Chandler and R. Sazdanovic, "A broken circuit model for chromatic homology theories," *European Journal of Combinatorics*, vol. 104, p. 103 538, 2022.

15	J. S. Levitt, M. Hajij, and R. Sazdanovic, "Big data approaches to knot theory: Understanding the structure of the jones polynomial," <i>Journal of Knot Theory and Its Ramifications</i> , vol. 31, no. 13, p. 2 250 095, 2022.
16	R. Sazdanović and D. Scofield, "Extremal khovanov homology and the girth of a knot," <i>Journal of Knot Theory and Its Ramifications</i> , vol. 31, no. 13, p. 2 250 083, 2022.
17	J. A. Baldwin, N. Dowlin, A. S. Levine, T. Lidman, and R. Sazdanovic, "Khovanov homology detects the figure-eight knot," <i>Bulletin of the London Mathematical Society</i> , vol. 53, no. 3, pp. 871–876, 2021.
18	M. Khovanov and R. Sazdanovic, "Diagrammatic categorification of the chebyshev polynomials of the second kind," <i>Journal of Pure and Applied Algebra</i> , vol. 225, no. 6, p. 106 592, 2021.
19	R. Sazdanovic and V. Summers, "Torsion in the magnitude homology of graphs," <i>Journal of Homotopy</i> and Related Structures, vol. 16, no. 2, pp. 275–296, 2021.
20	M. Adamaszek, H. Adams, E. Gasparovic, <i>et al.</i> , "On homotopy types of vietoris–rips complexes of metric gluings," <i>Journal of Applied and Computational Topology</i> , vol. 4, pp. 425–454, 2020.
21	A. A. Cooper, V. de Silva, and R. Sazdanovic, "On configuration spaces and simplicial complexes," <i>New York J. Math,</i> vol. 25, pp. 723–744, 2019.
22	S. Nelson, N. Oyamaguchi, and R. Sazdanovic, "Psyquandles, singular knots and pseudoknots," <i>Tokyo Journal of Mathematics</i> , vol. 42, no. 2, pp. 405–429, 2019.
23	E. Gasparovic, M. Gommel, E. Purvine, <i>et al.</i> , "A complete characterization of the one-dimensional intrinsic čech persistence diagrams for metric graphs," <i>Research in Computational Topology</i> , pp. 33–56, 2018.
24	E. Gasparovic, M. Gommel, E. Purvine, <i>et al.</i> , "The relationship between the intrinsic čech and persistence distortion distances for metric graphs," <i>arXiv preprint arXiv:1812.05282</i> , 2018.
25	R. Sazdanovic and D. Scofield, "Patterns in khovanov link and chromatic graph homology," <i>Journal of Knot Theory and Its Ramifications</i> , vol. 27, no. 03, p. 1840 007, 2018.
26	R. Sazdanovic and M. Yip, "A categorification of the chromatic symmetric function," <i>Journal of Combinatorial Theory, Series A</i> , vol. 154, pp. 218–246, 2018.
27	A. Lowrance and R. Sazdanovic, "Khovanov homology, chromatic homology, and torsion," <i>Topology and its Applications</i> , vol. 222, pp. 77–99, 2017.
28	L. Radović, P. Gerdes, S. Jablan, and R. Sazdanovic, "Plaited polyhedra: A knot theory point of view," <i>Journal of Knot Theory and Its Ramifications</i> , vol. 25, no. 09, p. 1641006, 2016.
29	A. Zeković, S. Jablan, L. Kauffman, R. Sazdanovic, and M. Stošić, "Unknotting and maximum unknotting numbers," <i>Journal of Knot Theory and Its Ramifications,</i> vol. 25, no. 09, p. 1641010, 2016.
30	M. Khovanov and R. Sazdanovic, "Categorifications of the polynomial ring," <i>Fundamenta Mathematicae</i> , vol. 3, no. 230, pp. 251–280, 2015.
31	J. Przytycki and R. Sazdanović, "Torsion in khovanov homology of semi-adequate links," <i>Fundamenta Mathematicae</i> , vol. 225, no. 1, pp. 277–303, 2014.
32	L. H. Kauffman, S. Jablan, L. RADOVIĆ, and R. SAZDANOVIĆ, "Reduced relative tutte, kauffman bracket and jones polynomials of virtual link families," <i>Journal of Knot Theory and Its Ramifications,</i> vol. 22, no. 04, p. 1 340 003, 2013.
33	V. Baranovsky and R. Sazdanovic, "Graph homology and graph configuration spaces," <i>Journal of Homotopy and Related Structures</i> , vol. 7, pp. 223–235, 2012.
34	S. Jablan, L. Radović, and R. Sazdanović, "Knots and links in architecture," <i>Pollack Periodica</i> , vol. 7, no. Supplement-1, pp. 65–76, 2012.

- 35 S. Jablan, L. Radović, R. Sazdanović, and A. Zeković, "Mirror-curves and knot mosaics," *Computers & Mathematics with Applications*, vol. 64, no. 4, pp. 527–543, 2012.
- R. Sazdanovic, "Diagrammatics in art and mathematics," *Symmetry*, vol. 4, no. 2, pp. 285–301, 2012.
 - S. Jablan, L. Radović, and R. Sazdanović, "Knots and links derived from prismatic graphs," *MATCH Commun. Math. Comput. Chem*, vol. 66, no. 1, pp. 65–92, 2011.
- 38 S. Jablan, L. Radović, and R. Sazdanović, "Pyramidal knots and links and their invariants," *MATCH Commun. Math. Comput. Chem*, vol. 65, no. 3, pp. 541–580, 2011.
 - S. Jablan, L. Radović, and R. Sazdanović, "Nonplanar graphs derived from gauss codes of virtual knots and links," *Journal of mathematical chemistry*, vol. 49, pp. 2250–2267, 2011.
- M. D. Pabiniak, J. H. Przytycki, and R. Sazdanović, "On the first group of the chromatic cohomology of graphs," *Geometriae Dedicata*, vol. 140, no. 1, pp. 19–48, 2009.
- 41 S. Jablan and R. Sazdanović, "Braid family representatives," *Journal of Knot Theory and Its Ramifications*, vol. 17, no. 07, pp. 817–833, 2008.
 - S. Jablan and R. Sazdanovic, "Knots, links, and self-avoiding curves," Forma, vol. 22, no. 1, pp. 5–13, 2007.
- 43 S. Jablan and R. Sazdanović, "Unlinking number and unlinking gap," *Journal of Knot Theory and Its Ramifications*, vol. 16, no. 10, pp. 1331–1355, 2007.
- 44 S. V. Jablan, L. Radovic, and R. Sazdanovic, "Basic polyhedra in knot theory," *Kragujevac J. Math*, vol. 28, pp. 155–164, 2005.

Books and Chapters

- R. Sazdanovic, "Khovanov link homology," in *Encyclopedia of Knot Theory*, Chapman and Hall/CRC, 2021, pp. 669–680.
- S. V. Jablan and R. Sazdanovic, "From Conway notation to LinKnot," in *Knot Theory and Its Applications*, vol. 670, American Mathematical Soc., 2016, p. 63.
- V. Nanda and R. Sazdanović, "Simplicial models and topological inference in biological systems," in *Discrete and topological models in molecular biology*, Springer, 2013, pp. 109–141.
- S. V. Jablan and R. Sazdanovic, LinKnot: knot theory by computer. World Scientific, 2007, vol. 21.

Conference Proceedings

- E. Gasparovic, M. Gommel, E. Purvine, *et al.*, "Local versus global distances for zigzag persistence modules," in *Research in Computational Topology*, Springer, 2022, pp. 63–76.
- 2 R. Sazdanovic, "Khovanov homology and torsion," in New Directions in Geometric and Applied Knot Theory, P. Reiter, S. Blatt, and A. Schikorra, Eds., Warsaw, Poland: De Gruyter Open Poland, 2022, pp. 125–137, ISBN: 9783110571493. *O* DOI: doi:10.1515/9783110571493-006.
 - C. Caprau, N. González, C. R. S. Lee, A. M. Lowrance, R. Sazdanović, and M. Zhang, "On khovanov homology and related invariants," in *Research Directions in Symplectic and Contact Geometry and Topology*, Springer, 2021, pp. 273–292.
 - G. Gonzalez, A. Ushakova, R. Sazdanovic, and J. Arsuaga, "Prediction in cancer genomics using topological signatures and machine learning," in *Topological Data Analysis: The Abel Symposium 2018*, Springer, 2020, pp. 247–276.
 - M. Adamaszek, H. Adams, E. Gasparovic, *et al.*, "Vietoris-rips and cech complexes of metric gluings," in 34th International Symposium on Computational Geometry (SoCG 2018), Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, 2018.

H. Guan, W. Tang, H. Krim, J. Keiser, A. Rindos, and R. Sazdanovic, "A topological collapse for document summarization," in *2016 IEEE 17th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, IEEE, 2016, pp. 1–5.



R. Sazdanović and M. Yip, "A categorification of the chromatic symmetric polynomial," Proceedings, Episciences. org, 2015.

S. V. Jablan and R. Sazdanovic, "Diagram dependent knot invariants and properties," in *Introductory lectures on knot theory: selected lectures at the Advanced School and Conference on Knot Theory and its Applications to Physics and Biology, ICTP, Trieste, Italy 2009*, vol. 46, World Scientific, 2012.

J. Kappraff, S. Jablan, G. Adamson, and R. Sazdanovic, "Golden fields, generalized fibonacci sequences, and chaotic matrices," in *Renaissance Banff: Mathematics, Music, Art, Culture*, 2005, pp. 369–378.

Scholarship: Google scholar citations

- Total 📕 839 (457 since 2020)
- h-index 📕 16 (13 since 2020)

i-10 index 📕 28 (19 since 2020)

Scholarship: Software



Scholarship: Invited Research Presentations

Total = 185

Scholarship: Plenary lectures and colloquium talks

1.	Generalized Volume Conjecture IIT Bombay	11/24
2.	Panorama of Geometry and Topology, University of Iowa, Iowa City, Iowa	10/24
3.	Diagrammatic Intuition and Deep Learning in Mathematics, York, UK	07/24
4.	AI and Pure Mathematics Conference, Institute of the Mathematical Sciences of Americas	
	Miami, FL	06/24
5.	Erice School of Complexity, Ettore Majorana Foundation and Centre for Scientific Culture in Er	ice,
	Italy	04/24
6.	Simons workshop "Knots, homologies, and physics", Banach Ceter, Warsaw, Poland	03/24
7.	Seminar for Combinatorics, Geometry, Algebra and Topology, Mathematical Institute of the Serb	oian
	Academy of Arts and Sciences, Belgrade, Serbia	03/24
8.	GEOTOP-A International Conference, Applications of Geometry and Topology, Merida, Mexico	01/24
9.	Mathematics and Machine learning, Caltech, Pasadena, CA	12/23
10.	Group actions and low-dimensional topology", US-Spain Conferencem El Barco de Ávila, Spain	07/23
11.	Distinguished April 1st talk, The George Washington University, Washington, DC	04/23
12.	Colloquium, UNC Greensboro, Greensboro, NC	10/22

13.	Fall Workshop on Computational Geometry, NC State Computer Science Department	10/22
14.	Georgia Topology Conference, Athens, GA	05/22
15.	Discrete and Topological Models in Molecular Biology, Tampa, FL	05/22
16.	Optimal Transport, Topological Data Analysis and Applications to Shape and Machine Learning Ohio State University, Columbus OH	MBI 07/20
17.	Using Quantum Invariants to do Interesting Topology, CMO Oaxaca, Mexico (postponed)	05/20
18.	Knot Theory on Okinawa, Okinawa Institute of Technology, Okinawa, Japan	02/20
19.	Biology, Analysis, Geometry, Energies, Links: A Program on Low-dimensional Topology, Geome and Applications, Institute for Mathematics and its Applications, UMN, Minneapolis, MN	try, 06/19
20.	Catalina Retreat in Mathematics: University of Southern California Wrigley Institute for Marine Science, Catalina Island CA	01/19
21.	Higher Structures 2, University of Pennsylvania, Philadelphia PA	03/18
22.	Quantum topology and categorified representation theory, Isaac Newton Institute, Cambridge, U	ΓK
		06/17
23.	Contemporary aspects, Overview, and Outlook on Knots: International Early Summer school	
	mini-course on Link homology theories, Freiburg, Germany	06/17
24.	BIRS Topological Methods in Brain Network Analysis, Banff, Canada	05/17
25.	Colloquium College of Charleston	05/17
26.	Colloquium Vassar College	12/16
27.	International Conference on Knots, Low Dimensional Topology and Applications (Knots in Hella	as),
0	Ancient Olympia, Greece	07/16
28.	GELATO: Geometric Energies with Links to Applications, Topology and Open problems, Basel University, Switzerland	08/15
29.	Journées Solstice d'été 2015, Colloque International, Noeuds, représentations et catégorification, Institut de Mathematiques de Jussieu, Paris, France	06/15
30.	Algebraic Topology- Methods, Computation and Science (ATMCS), PIMS and University of Briti Columbia, Vancouver, CA	sh 05/14
31.	Colloquim, Carleton College	05/14
32.	Lloyd Roeling UL Lafayette Mathematics Conference, Lafayette, LA	11/13
33.	Quantum topology and related topics, Nha Thang, Vietnam	05/13
34.	Colloquium, University of South Florida, Tampa FL	02/13
35.	Colloquium, University of Iowa, Iowa City IA	02/13
36.	Colloquium, George Mason University, Fairfax VA	02/13
37.	Colloquium, University of Oregon, Eugene OR	01/13
38.	Colloquium, North Carolina State University, Raleigh NC	01/13
39.	Colloquium, University of Massachusetts Amherst, Amherst MA	12/12
40.	Claremont Colleges Mathematics Colloquium, Claremont, CA	10/12
41.	KITP Knotted Fields program, University of California, Santa Barbara CA	06/12
42.	Colloquium, Bryn Mawr College, Bryn Mawr, PA	10/10
43.	Swiss Knots Conference: Knot Theory and Algebra, Lake Thun, Switzerland	05/11
44.	Colloquium, University of San Francisco, San Francisco, CA	04/10
Scho	DLARSHIP: SEMINAR TALKS	

1. Geometry and Topology Seminar, University of Iowa, Iowa City, Iowa	10/24
2. Applied Algebraic Topology Research Network (AATRN)	10/24
3. New Frontiers in Algebra, Geometry and Topology, VCU, Richmond, VA	12/22
4. Algebra and Combinatorics seminar, NC State. Raleigh NC	10/22

5.	DIOSCURI Centre for Topological Data Analysis, Warsaw, Poland	10/22
6.	Online Seminar: Knots and representation theory Moscow, Russia	07/22
7.	Topological Quantum Field Theory Seminar, Lisbon, Portugal	07/22
8.	Northeastern topology seminar	04/22
9.	Michigan State TDA seminar, East Lansing, MI	11/21
10.	EPSRC Centre for Doctoral Training in Topological Design, University of Birmingham, UK	11/21
11.	Topology and geometry: extremal and typical, "Big data and applied topology methods in kn	ot theory",
	Santa Barbara, CA	09/20
12.	Categorification Seminar, University of Southern California, Los Angeles, CA	01/19
13.	Topology, Geometry and Data Seminar, The Ohio State University, Columbus, OH	03/18
14.	Topology Seminar, Claremont Colleges, Claremont, CA	11/17
15.	Discrete Combinatorics, Algebra, Topology & Statistics seminar, University of Kentucky, Lex KY	tington, 11/17
16.	Topology Seminar, Claremont Colleges, Claremont, CA	04/17
17.	Topology and Geometry Seminar, Universtität Bern, Bern, Switzerland	08/15
18.	TopData Seminar, Inria Saclay, Paris, France	06/15
19.	Geometry seminar, University of Virginia, Charlottesville, VA	04/15
20.	Carleton College, Northfield, MN	05/14
21.	Scientific and Engineering Applications of Algebraic Topology Seminar, Institute for Mather its Applications, Minneapolis, MN	natics and 04/14
22.	Combinatorics seminar, University of Minnesota, Minneapolis, MN	04/14
23.	Topology seminar, Duke University, Durham NC	04/14
24.	Discrete Geometry Seminar, Freie Universtität, Berlin, Germany	03/14
25.	Phylogenetic and Evolutionary Biology Seminar, NCSU, Raleigh, NC	11/13
26.	Algebra and Combinatorics Seminar, NCSU, Raleigh, NC	11/13
27.	Lafayette College REU, Lafayette, PA	07/13
28.	Lafayette-Lehigh Geometry-Topology Seminar, Lafayette College, Evanston PA	03/12
29.	Deformation theory seminar, University of Pennsylvania, Philadelphia PA	02/12
30.	Algebra Seminar, Syracuse University, Syracuse, NY	10/11
31.	Topology seminar, University of Miami, Miami, FL	08/11
32.	Topology Seminar, Temple University, Philadelphia, PA	11/10
33.	Graduate student seminar, University of Pennsylvania, Philadelphia, PA	11/10
34.	Claremont Topology Seminar, Pomona College, Claremont, CA	11/10
35.	Algebra seminar, UC Irvine, Irvine, CA	05/10
36.	Graduate student seminar, UC Berkeley, CA	04/10
37.	Postdoctoral Seminar, MSRI, Berkeley, CA	04/10
38.	Virtual Topology Seminar Joint between LSU, U Iowa, Rice, GWU, U Miami, UN Omaha, Bo Cornell	oise State, 04/09
39.	Graduate Student Topology Seminar, George Washington University, DC	04/08
40.	Quantum Topology-Hopf Algebra Seminar, University of Illinois at Chicago, Chicago IL	01/06
41.	Topology Seminar, Indiana University, Bloomington, IN	01/06
Scho	plarship: Invited Conference talks	
1.	JMM AMS Special Session "Machine Learning to Accelerate Mathematical Discovery"	01/25
2.	JMM AMS Special Session "Emerging Geometric and Topological Machine Learning Method Mathematical and Computational Oncology"	ds in 01/25
3.	SIAM Mathematics of Data Science, Session "Topological Data Visualization", Atlanta, GA	10/24

4.	TDA Special session, AISC, Greensboro, NC	10/24
5.	Special session on Knot Theory and Applications at UMI-AMS, Palermo, Italy	07/24
6.	AMS Sectional meeting, Omaha, NE	10/23
7.	Society for Mathematical Biology, Minisymposium on Algebra, Combinatorics, and Topology in	
	Modern Biology, Columbus, OH	07/23
8.	AISC, "AISC TDA in Statistics and Machine Learning"	10/22
9.	AWM Research Symposium, Minneapolis, "Women, Art, and Mathematics, AWM Research Symposium, Minneapolis".	06/22
10.	AWM Research Symposium, Minneapolis, "Mathematics of Materials, AWM Research Symposium	n,
	Minneapolis".	06/22
11.	AMS Spring Western Sectional Meeting, Computational Topology and Applications,	05/22
12.	AMS Sectional Meeting (Spring western), "Special Session on Computational Topology and Applications".	05/22
13.	Joint Mathematics Meetings, "Topology applied to cancer genomics"	04/22
14.	AMS Sectional Meeting, Special Session on "Optimization, Complexity, and Real Algebraic Geom 03/22	netry"
15.	AMS Sectional Meeting, Special Session on Quantum algebra and quantum topology".	03/22
16.	Knots in Washington 49.5, Washington, DC	12/21
17.	Fall Southeastern Sectional Meeting AMS Special Session Geometric and Algebraic Aspects of Quantum Groups and Related Topics	11/21
18.	CMO Workshop Using Quantum Invariants to do Interesting Topology, Oaxaca, Mexico 05/	/20-22
19.	AMS Special Session Purdue Knots and Links in 3-Manifolds, Purdue University	04/20
20.	AMS Special Session Quantum algebra and topology, Purdue University (cancelled)	04/20
21.	AMS Special Session Knot Theory and its Applications, Sectional Meeting at the University of Vir Charlottesville, VA	rginia, 03/20
22.	AMS Special Session Categorical Representation Theory and Beyond, Sectional Meeting at the	
	University of Virginia, Charlottesville, VA(cancelled)	03/20
23.	AMS Special Session Applied Topology, JMM Denver, CO	01/20
24.	AMS Special Session Applications and Computations in Knot Theory, JMM Denver, CO	01/20
25.	AMS Special Session Self-Distributive Structures, Knot Theory, and the Yang Baxter Equation, JM Denver, CO	ЛМ 01/20
26.	Fall Western Sectional Meeting, AMS Special Session Algebraic and Combinatorial Structures in	Knot
	Theory, Riverside, CA	11/19
27.	AMS Special Session Applied Topology: Theory and Applications, University of Florida, Gainesvi FL	ille, 11/19
28.	Modeling the Living Embryo Cluster Retreat, JC Raulston Arboretum, Raleigh, NC	09/19
29.	AWM Research Symposium, Rice University, Houston, TX	04/19
30.	AMS Sectional Meeting at the University of Connecticut, Hartford, CT	04/19
31.	BIRS Workshop Topology of Nucleic Acids: Research at the Interface of Low-Dimensional Topol	ogy,
	Polymer Physics and Molecular Biology, Banff, Canada	03/19
32.	AMS Spring Central and Western Joint Sectional Meeting at the University of Hawaii at Manoa, Honolulu, HI	02/10
22	AMS Special Session Algebraic Structures Mativated by Knot Theory Joint Mathematics Maatin	03/19
33.	Baltimore, MD	ь 01/10
34.	MAA Special Session Mathematics and the Arts, Joint Mathematics Meeting, Baltimore, MD	01/19
35.	AMS Special Session Non-Associative Algebraic Structures and their (Co)homology Theories. Fal	11
29	Southeastern Sectional Meeting, Fayetteville, AR	11/18

36.	AMS Special Session The Geometry of Curves and Applications, Fall Southeastern Sectional Mee	eting,
	Fayetteville, AK	11/18
37.	AMS Special Session Combinatorial and Categorical Aspects of Representation Theory, Fall West Sectional Meeting, San Francisco, CA	tern 10/18
38.	AMS Special Session Applied Algebraic Topology, Fall Eastern Sectional Meeting, Newark DE	09/18
39.	33rd Summer Conference on Topology and its Applications, Western Kentucky University, Bowli Green, KY	ng 08/18
40.	AMS Special Session Algebraic, Combinatorial, and Quantum Invariants of Knots and Manifolds Ohio State University, Columbus, OH	, The 03/18
41.	Geometric Topology Special Session at the 52nd Annual Spring Topology and Dynamics Confere Auburn, AL	nce, 03/18
42.	Joint Mathematical Meeting, AMS Special Session on Topological Data Analysis, San Diego, CA	01/18
43.	Joint Mathematical Meeting AMS Special Session on Quantum Link Invariants, Khovanov Homo and Low-dimensional Manifolds, San Diego, CA	ology, 01/18
44.	AMS Special Session on Algebraic and Combinatorial Structures in Knot Theory at the Fall West Sectional Meeting, Riverside, CA	ern 11/17
45.	AMS Special Session Knots, 3-manifolds and their Invariants, SUNY Buffalo NY	09/17
46.	AMS Special Session Polynomials in Enumerative, Algebraic, and Geometric Combinatorics, SUP	NY
	AMS Special Session Special Session on Combinatorial and Algebraic Structures in Knot Theory	09/1/
47.	Pullman, WA	04/17
48.	AMS Special Session Special Session on Inverse Problems, Pullman, WA	04/17
49.	Special Session Applications of Topology and Geometry at the 2017 AWM Research Symposium, UCLA, Los Angeles, CA	04/17
50.	AMS Special Session Special Session on Knot Theory and its Applications, Charleston, SC	03/17
51.	JMM AMS Special Session on Sheaves in Topological Data Analysis, Atlanta, GA	01/17
52.	Joint Mathematical Meeting AMS Special Session on Fusion Categories and Quantum Symmetric Atlanta GA	es, 01/17
52	Analysis Topology Algebra: Theory and Applications Cacak Serbia	07/16
55.	AMS special session Algebraic Structures in Knot Theory Spring Southeastern Sectional Meetin	0//10
<u></u> 54∙	Athens, GA	o3/16
55.	AMS special session Algebraic Structures in Knot Theory, Spring Southeastern Sectional Meeting Athens, GA	g, 03/16
56.	Advances in Quantum and Low-Dimensional Topology, Iowa City, Iowa	03/16
57.	JMM Special Session on Applied and Computational Topology, Seattle, WA	01/16
58.	JMM Special Session on Topological Representation Theory, Seattle, WA	01/16
59.	AMS Special Session: Invariants of knots, links and 3-manifolds, AMS Fall Eastern Sectional Mee	eting, 11/15
60.	AMS Special Session: Algebraic and Combinatorial Invariants of Knots, AMS Fall Central Section Meeting, Chicago, IL	n 10/15
61.	8th Southeastern Lie Theory Workshop on Algebraic and Combinatorial Representation Theory,	10/10
60	MAA Math East, Invited Session Algebraic Structures Mativated by Unst Theory Mashimster DC	10/15
02.	MAA East Invited Session Mathematics and Art Mashington DC	00/15
03. ć	AMO EMO COM restriction Contraction for the former of the	08/15
64.	AIVIS-EIVIS-SPIVI meeting: Categorification of Quantum groups, Representations and Knot Invari Porto, Portugal	o6/15
65.	AMS-EMS-SPM meeting: Mathematics and the Arts, Porto, Portugal	06/15
66.	AMS Spring Western Sectional Meeting, Las Vegas, NV	04/15

College Park, MD 04/55 68. AMS Central Spring Sectional Meeting MSU, East Lansing, MI 03/55 69. AMS Spring Eastern Sectional Meeting, Georgetown University, Washington DC 03/55 70. Conference on Knot theory and its applications to physics and quantum computing, University of Texas at Dallas, Richardson, TX 03/54 71. AMS Special Session Knots and Applications, Spring Eastern Sectional Meeting, University of California Riverside, Riverside, CA 03/14 72. 48th Spring Topology and Dynamics Conference, University of Richmond, Richmond, VA 03/14 73. Special Session on Actegorification in Representation Theory Fall Western Sectional Meeting, University of California Riverside, Riverside, CA 11/33 74. Special Session on Categorification in Representation Theory Fall Western Sectional Meeting, University of California Riverside, Riverside, CA 11/33 75. Quantum topology and related topics, Nha Thang, Vietnam 07/13 76. Program for Women in Mathematics, IAS and Princeton University, Princeton, NJ 03/12 78. ast Century Geometry, Program for Women in Mathematics, IAS and Princeton University, Princeton NJ 03/12 79. Association for Women in Mathematics Workshop, Joint Mathematical Research Center Tennio De Giorgi, Pisa, Italy 03/12 80. DAAD Center of Excellence for Applications of Mathematics: Symmetry in Science and Arts, Vrinjacka Banja, Serbia 05/11 81. DAAD Center of	67.	Association for Women in Mathematics Research Symposium, University of Maryland College Pa	ark,
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 82. AMS Central Section Meeting Special Session on Representations of Algebras University of Iowa, Iowa City, IA 03/11 83. Topological Problems in Molecular Biology, Special Session and Lead-in Workshop, AMS Central Section University of Iowa, Iowa City, IA 03/11 84. AMS Central Sectional Meeting, Special Session on Representations of Algebras, University of Iowa, Iowa City, IA 03/11 85. JMM AMS Special Session "Knots, 3-manifolds and physics" New Orleans, LA 01/11 86. AMS Fall Western Sectional Meeting, Special Session on "Algebraic Structures in Knot Theory", Los Angeles, CA 11/10 87. Advanced School and Conference on Knot Theory and its Applications to Physics and Biology, International Centre for Theoretical Physics, Trieste, Italy 05/09 88. DIMACS Workshop on Algorithmic Mathematical Art, Rutgers 05/09 90. JMM AMS Special Session on "Categorification and Link Homology", Washington, DC 01/09 91. AMS Special Session on "Knot and 3-Manifold Invariants", Spring Southeastern AMS Meeting, Baton Rouge, LA 03/08 92. Workshop on Knots and Quantum Computing, University of Texas at Dallas, TX 12/07 93. Knotting Mathematical Society, Warsaw, Poland 08/07 94. Special session on "Invariants of Links and 3-manifolds" Joint International Meeting between the AMS and the Polish Mathematical Society, Warsaw, Poland 08/07 95. Link Homology and categorification conference RIMS Research Institute for Mathematical Science at Kyoto University, Japan 05/07 96. JMM AMS Special session on "Knots, 3-Manifolds, and Their Invariants", New Orleans, LA 	81.	DAAD Center of Excellence for Applications of Mathematics: Symmetry in Science and Arts, Vrr. Banja, Serbia	ijacka 05/11
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96. JMM AMS Special session on "Knots, 3-Manifolds, and Their Invariants", New Orleans, LA 01/07	95.	Link Homology and categorification conference RIMS Research Institute for Mathematical Scien Kyoto University, Japan	ce at 05/07
	96.	JMM AMS Special session on "Knots, 3-Manifolds, and Their Invariants", New Orleans, LA	01/07

97. AMS Special session on "Quantum Invariants of Knots and 3-Manifolds", Spring Eastern	Section,
Durham, NH	04/06
98. Knots in Washington XXI, Washington, DC	12/05
99. Contemporary Geometry and Related Topics, Belgrade, Serbia	07/05
Scholarship: Posters	
1. Workshop for Women in Computational Topology, Institute for Mathematics and its Ap	plications,
Minneapolis MI	08/16
2. TOPOSYM Conference, Prague, Czech Republic	07/16
3. The 27th International Conference on Formal Power Series and Algebraic Combinatoric	s (FPSAC

 2015), Daejeon, Korea 07/15
 4. Association for Women in Mathematics Workshop, Institute for Mathematics and its Applications, Minneapolis MI 03/13

Teaching: Classes taught and teaching effectiveness

- Courses taught at NC State: MA 893, MA 810: Special Topics class on "Categorification", MA 795: Special Topics: Topology, MA 753: Algebraic Topology, MA 693, MA 591: Special Topics "Geometry, Topology, and their applications", MA 551: Intro to Topology, MA 407: Modern Algebra for Majors, MA 305: Introductory Linear Algebra and Matrices, MA141 Calculus I, MA 114 Introduction to Finite Mathematics with Applications.
- Courses taught at University of Pennsylvania: MATH 560 Selections in geometry and Topology, MATH 500 Geometry and Topology I, Math 104, Calculus I.
- Summary of evaluations Taught 29 graduate and undergraduate courses with about 1000 students with both the mean and median teaching effectiveness 4.5.
- Reviewers: MA 753–2020 Jon Doyle, Computer Science, Irina Kogan MA 551–2019, Ernie Stitzinger MA 407–2018 and MA 591–2017, Mithat Unsal, Physics, MA 493/591–2018, Tom Lada MA 407H–2016.

Teaching: Instructional Development

- **NC State** Special Topics "Topology: theoretical, computational and applied" (MA 591) 2018, 2020, 2023 The course introduces main ideas and techniques in geometry and topology, focusing on how and why they work and their applications in other areas of mathematics, science and engineering. The course uses materials from: "Topology" by J. Munkres, "Algebraic Topology" by A. Hatcher, "Applied Algebraic Topology" by R. Ghrist, and a mixture of survey and research articles. This course was intended both for math majors and for all students in Colleges of Sciences, Education, and Engineering as it provides the foundations, references, and examples of current theoretical and applied topics. See attached peer review by Dr. Mithat Unsal, Physics department, NC State.
- **NC State** Foundations of Data Science (MA326) developed jointly with K. Flores, M. Haider, M. Olufsen, D. Papp consisting of Basics of ML, Unonstrained Optimization, Neural Networks and overfitting, Parameter estimation and Sensitivity analysis for mathematical models, and Topological Data Analysis (2022)

International Courses Contemporary Aspects, Overview and Outlook on Knots: International Early Summer School. Freiburg; Germany (2017);

NC State Graduate special topics class MA 810 "Categorification" 2021 The course is aimed at advanced graduate students and covered a range of recent research topics as well as sufficient background.

Teaching: Instructional Development (continued)

NC State Special Topics "Homology Theories for Knots and Links" (MA 591, 2016) Graduate special topics class covered a collection of books and research articles. Three of the students in that class earned their PhDs with me as their advisor and additional 4 did their PhD in topology or related topics.

Advising and Mentoring

Postdocs 📕 Juanita Pinzon-Caicedo 2017-2019 (Assistant Professor at Notre Dame, 2019- , Visitor Max Plank, Bonn, Germany Spring 2020)

PhD 📕 Chair

- Matthew Elpers (expected 2027)
- Matthew Nuyten (expected 2026)
- Jai Aslam (2023)
- Megan Chambers, coadvised with M. Olufsen (2022)
- Alex Chandler, PostDoc at University of Vienna, Austria PostDoc UC Davis (2019)
- Victor Summers, Assistant Professor at Upstate University South Carolina (2019)
- Daniel Scofield, Assistant Professor at Francis Marion State (2018)

MS 📕 Chair

- Tom Blue (expected 2024)
- Yvonne Chazal, Wake Tech, Girls Rock (2016-2017)
- Kristina Bender WebAssign (2015-2016)
- Darren Lipman Teach for America (2015-2016)
- Sam Krupa, University of Pennsylvania (2013)

PhD 📕 Committee Member

- exp Jingwei Xiong (UC Davis), Everett Meike, Michael Baker
- 2022 Robert DeYeso
- 2021 Sanjana Curtis (Physics), Nicholas Grey (Physics), Bo Jiang (Electrical engineering
- 2020 Dustin Leninger
- 2019 Emma Sorrell, Quian Ge (Computer Science) Claire Zajackowski, Suzanne Crifo
- 2018 Kristen Boyle, Alexander Combs, Kathryn Smith (Industrial and systems engineering)
- 2017 Kristen Bugg, Chong Wang (Statistics), Ashley White, Rachel Townsley (Industrial and systems engineering)
- 2016 Alireza Dirafzoon (Computer science) , Hui Guan (Electrical engineering) , Zinan Yi (Industrial and systems engineering)
- 2015 Noah Daleo

REU 🛛 📕 Ian Livengood, Natalie Johnson. Miya Spinela, Summer 2020;

UG Carina Yining Fu, Spring 2023; Eduardo Bravo-Escudero, Spring 2023; Drew Connelly, Fall 2021; Erik Meekins Summer 2020; Peyton Wood 2019–2020; Benjamin Wendt Spring 2018; Joseph Mueller Spring 2018; Noah Johnson Fall 2017; Christopher Becker Fall 2015; Eric Mc-Cabe Fall 2013.

Advising and Mentoring (continued)

GTA Graduate teaching assistants: Kylan Shatz (2022), Erik Mainelis (2020), Sarah Strikwerda (2020), Victor Summers(2019), Alex Chandler (2018) Suzanne Crifo (2018), Molly Lynch (2017), Mallory McMahon (2017), Kristen Moody (2016), Nathan Miller (2013)

Professional Service

2023-24		Member of the Scientific Committee GEOTOP-A International Conference Applications of Geometry and Topology, Merida, Mexico
10/23		AIM Workshop on K3: A new problem list in low-dimensional topology
2017-		Member and Chair of the Association for Women (AWM) in Mathematics JMM Committee
2016		Academic Editor Journal of Knot Theory and its Ramifications
2014		Program Committee Member International Conference Bridges: Mathematical Connections in Art, Music and Science
Panels		NSF DMS Panels in 2014, 2017, 2018(2), 2019; Netherlands Organization for Scientific Re- search, Army Research Office (ARO) 2018; NSF Institute Review Panel 2015
2014–	R	Refereeing Algebraic & Geometric Topology, Banach Cen- ter Publications, Discrete Applied Mathematics, Experimental Mathematics, European J. of Combinatorics, Filomat, Fundamenta Mathematicae, Geometry & Topology, Homotopy, homology, and applications, International Journal of Computational Geometry and Applications. J. London Math. Soc., Journal of Topology, Journal of Applied and Computational Topology, Journal of Knot Theory and its Ramifications, Kyungpook Mathematical Journal, Pacific J. Math., PLOS One, PLOS Computational Biology, Proceedings of the Royal Society of Edinburgh (Series A), Quantum Information Processing, Topology and its Applications, etc.
2012-		MathSciNet 4 reviews
2020		Scientific Program Committee Member 36th International Symposium on Computational Geometry (SoCG 2020), Zurich, Switzerland
2019		Editor for Knots, Low-Dimensional Topology and Applications Knots in Hellas Inter- national Olympic Academy, Greece, Springer Proceedings in Mathematics and Statistics Vol. 284 (2019) 978-3-030-16030-2, pp. 476
2015		International Scientific Committee Member Applied Topology: Methods, Computation, and Science, Torino, Italy

Profesional Service To Promote Diversity

Increasing the participation of women and other under-represented groups in the mathemat ences and nurturing girl's interest in mathematics	ical sci-
EDGE (Enhancing Diversity in Graduate Education) mentor	2023-
AWM JMM Committee Chair	2019–
Topology Student Workshop mentor, Georgia Tech University	07/22
Wake County Science Fair judge	2021–22
Women in Symplectic and Contact Geometry and Topology program, Project leader and men junior mathematicians, ICERM Providence RI	tor to 4 07/19
Catalina Retreat in Mathematics: University of Southern California Wrigley Institute for Mar ence, Catalina Island CA Mentor and Panelist	ine Sci- 01/19
Real Leadership in STEAM panel	11/19
Goodnight scholar Faculty dinner series	11/18

Profesional Service To Promote Diversity (continued)

SWiM2018 (Summer Workshop in Math) Talk Duke University, Durham, NC	07/18
Re:Boot Number Theory Intensive research retreat for women in number theo versity, Durham, NC	ry, Panel Duke Uni- 2017
State of the Sciences: Live! talk at NC State Hunt Library	04/18
Graduate Training Seminar job application panel	2014
NC State SUM Series speaker and organizer	2013, 2016
Math Circle NC State	2013
Summer school: Girls in Engineering, Mathematics and Science, University of Per phia PA	nnsylvania, Philadel- 2012-13

Professional Service: Conference, Workshop, and Seminar Organization

2023	GEOTOP-A International Conference Applications of Geometry and Topology, Merida, Yucatan, Mexico
2014–	Geometry and Topology seminar, NC State, Raleigh, NC
2023	Tangled in Knot Theory, Workshop, Institute for Computational and Experimental Re- search in Mathematics (ICERM), Providence, RI entry*[2022] AWM Research Symposium Special Session Women in Computational Topology, Minneapolis, MN
2014–2019	Triangle Geometry and Topology seminar, Duke, NC State, and UNC-Chapel Hill, NC
2009-18	21 Knots in Washington Conference Series, sponsored by the NSF
2014-23	7 TAGMaC Triangle Area Graduate Mathematics Conference NC State
2020	AWM Poster Session, Joint Mathematics Meetings Denver, CO
2019-24	AWM Poster session, Joint Mathematics Meetings
2019	AWM Workshop, Special Session "WinCompTop: Applied and Computational Topology", Joint Mathematics Meetings, Baltimore, MD
2013-18	9 AMS/ Sectional and Joint Mathematics Meeting Special Sessions
2016	International Conference on Knots, Low Dimensional Topology and Applications. Ancient Olympia, Greece
	Knots in the Triangle, NC State, Raleigh, NC
2015	Conference on Knot theory and its applications to physics and quantum computing, University of Texas at Dallas, Richardson, TX
	MAA FEST Invited Session, Washington, DC
2013	IAS Women in Mathematics Program Panel, IAS Princeton, NJ
2009	DIMACS Workshop on Algorithmic Mathematical Art, Rutgers, NJ

Professional Service: NC State

2013–	Faculty advisor for NC State University- American Mathematical Society Student Chapter
2020-2023	DEI Committee
2013–	Graduate Faculty Member
2020-	Department Ph.D. Preliminary Exam Committee
2022-	Department Graduate Recruitment Committee Member
2017-	Outreach and Publicity Committee

Professional Service: NC State (continued)



Extension and Outreach: Publications

- P. Dlotko, D. Gurnari, R. Sazdanovic, The Art of Knot Data. Proceedings of Bridges 2024: Mathematics, Music, Art, Architecture, Culture, pp 443-446.
- H. Russel, R. Sazdanovic, Mathematics and Art: Unifying Perspectives, Handbook of the Mathematics of the Arts and Sciences, ISBN-13. 978-3319570716, Springer 2021, 497–525.
- R. Sazdanovic, Visualizations and visual thinking in mathematics, in "On Visualization. A Multicentric Critique beyond Infographics", E. Fiorentini, J.Elinks (edts) Series "Kultur: Forschung und Wssenschaft", LIT Verlag ISBN 3-643-90535-2 (to appear) 15pp.
- R. Sazdanovic, Fisheye View of Tessellations, Bridges: Mathematical Connections in Art, Music and Science, Conference Proceedings, (2012), 361–364.
- R. Sazdanovic, "Experience-centered approach and Visuality in the Education of Mathematics and Physics" Kaposvar University, Kaposvar, (2012) ISBN 978-963-9821-52-1
- S. Jablan, R. Sazdanovic R. Discovering symmetry of knots by using program LinKnot, Symmetry: Art and Science, The Journal of ISIS-Symmetry (2004) 102–110.
- R. Sazdanovic, M. Sremcevic, Hyperbolic Tessellations by tess, Symmetry: Art and Science, 1-4 (2004) 226-229.
- R. Sarhangi, S.Jablan, R. Sazdanovic, Modularity in Medieval Persian Mosaics: Textual, Empirical, Analytical and Theoretical Considerations, Bridges: Mathematical Connections in Art, Music and Science, Conference Proceedings, (2004) 281-293.
- J. Barrallo, R. Sazdanovic, Computer Sculpture: A Journey Through Mathematics, Bridges: Mathematical Connections in Art, Music and Science, Conference Proceedings, (2002) 54.
- R. Sazdanovic, M. Sremcevic, Tessellations of the Euclidean, Elliptic and Hyperbolic Plane, Symmetry: Art and Science, 2 (2002) 229-304.

Extension and Outreach: Media

- Sciences et Avenir Janvier 2025 N° 935 Interview by C. Mauger for "Les théorémes a l'heure de l'innovation algorithmique"
- Quanta Magazine November 2024 Interview for "Teen Mathematicians Tie Knots Through a Mind-Blowing Fractal" by G. Barber.
- All the Possibilities...Reflections on a Painting by Vernon Pratt Interview for a Documentary movie in Four Movements on mathematical inspirations of NC artist Vernon Prat for his impressive 256 canvas piece that builds on areas of mathematics related to probability, co-directed by Marsha Gordon, NC State professor of Film studies, and Louis Cherry, 2019.

Extension and Outreach: Media (continued)

- Exploring Math Through Art NC State Think and do video available at https://www.youtube. com/watch?v=ONeeDvlSFU0
- **Girls' Angle Bulletin**Interview and the cover, Volume 6, Number 2,3 2012-2013.
- **Girls Angle Bulletin** "Fun with Triangles, Inscribed Circles, and Angle Bisectors " http://www.girlsangle.org/page/filmpage.php?num=4

Extension and Outreach: Exhibitions

2024	Bridges 2024 Richmond, Virginia, USA
2018–	Tesscelestial Interactive webapp and large-scale and interactive exhibition pairing my research in mathematics and applications and my creative pursuits as an conceptual artist. Collaborative research project with NC State libraries funded by Andrew W. Mellon "Immersive Scholar" grant. Available at: https://github.com/NCSU-Libraries/tess-celestial
2023-	Laboratoire de Mathématiques Nicolas Oresme, Université de Caen-Normandie, Caen, France
2015-	Institute for Mathematics and Its Applications, Minneapolis, MN
2012-	David Rittenhouse Labs, University of Philadelphia, Philadelphia, PA
2010-	Rome Hall, The George Washington University, Washington DC
2020	"Women Making Art with Math", Dana School of Art, Wellesley, MA
	Liquid State, Raleigh, NC
2019	130 Anniversary Celebration, Department of Mathematics, NC State
2013	Fisheye view of Mathematics, Burrison gallery, Philadelphia, PA
2012	International Centre for Mathematical Sciences Edinburgh, UK
2011	University of Basque Country, San Sebastian, Spain
2010	Royal Flemish Academy of Belgium, Brussels, Belgium
	Rhythm and Structure: Beyond the Mathematics, International Conference in Low Dimen- sional Topology and Mathematical Art, Museum of Science and Industry, Tampa, FL

Extension and Outreach: Conferences and public lecures

1.	Bridges 2024 Richmond, Virginia, USA	20	024
2.	Fall Technical Conference, Raleigh, NC	20	023
3.	State of the Sciences: Live! NC Science Festivals	2016–2018, 2	021
4.	AWM Research symposium, Women, Art, and Mathematics, Minneapolis, MN		
5.	MAA Paper Session on Mathematics and the Arts, Joint Mathematics Meetings, Baltimo	ore, MD 01	1/19
6.	130th Math Department Anniversary Celebration, NC State, Raleigh, NC	2	019
7.	Coffee and Viz series in the Teaching and Visualization Lab, James B. Hunt Jr. Library	2	.018
8.	North Carolina Science Festival: Art & Design and Science, Workshop: "Art through Ma	th: From Pla	ato
	through Da Vinci to knotted polyhedra."	2	016
9.	MAA Fest Invited Session Mathematics and Art, Washington DC	08	3/15
10.	MoSAIC: Mathematics of Science, Arts, Industry and Culture Festival, NC State	2	:015
11.	SPM-EMS-AMS Joint Meeting, Porto, Portugal	2	:015
12.	Symposium: Perspectives on Art Education, University of Applied Arts, Vienna, Austria	2	2015
13.	"Visualization. A critical Survey of the Concept", Humboldt-Universität zu Berlin, Instit	ut für Kunst	
	und Bildgeschichte, Germany	20	014
14.	Math Art Summit Royal Flemish Academy of Belgium, Brussels, Belgium	20	D12.

15.	Bridges: Mathematical Connections in Art, Music and Science	2012.
16.	WistKunst, Department for Architecture Sint-Lucas Gent, Belgium	2011.
17.	Workshop on Algorithmic Mathematical Art: Special Cases and Their Applications, DIMACS Cen CoRE Building, Rutgers University, Newark, NJ	ter, 2009
18.	The International Society for the Interdisciplinary Study of Symmetry Conference, Tihany/Budap Hungary	0est, 2004
19.	Matomium, Sint Lucas Institute for Architecture, Brussels, Belgium	2002