

CURRICULUM VITAE

Anzor Beridze

Personal Information

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Research Interests

- Algebraic Topology; Knot Theory

Work Experience

Dates: November 2025–present
Position: Senior Researcher
Institution: A. Razmadze Mathematical Institute of I. Javakhishvili Tbilisi State University

Dates: September 2021–present
Position: Professor
Institution: Batumi Shota Rustaveli State University

Dates: September 2021–present
Position: Visiting Professor
Institution: Kutaisi International University

Dates: April 2020–September 2021
Position: Assistant Professor
Institution: Kutaisi International University

Dates: September 2009–September 2020
Position: Associate Professor
Institution: Batumi Shota Rustaveli State University

Education and Internships

Education:

Dates: 2001–2004
Degree obtained: PhD
Institution: Ivane Javakhishvili Tbilisi State University, Tbilisi Georgia
Thesis Title: On Alexander-Spanier type Cohomology Theory

Dates: 1996–2001
Degree obtained: Master of Science in Mathematics
Institution: Batumi Shota Rustaveli State University

Internships:

Dates: December 2025–June 2026
Position: Visiting Researcher (Fulbright Scholar)
Institution: George Washington University, Washington, USA

Dates: September 2019–January 2020
Position: Visiting Researcher
Institution: University of California, Santa Barbara (UCSB), USA

Dates: November 2013–May 2014
Position: Postdoctoral Fellow
Institution: University of Warsaw, Warsaw, Poland

Dates: November 2006–February 2007
Position: Postdoctoral Fellow
Institution: Abdus Salam School of Mathematics of GC University, Lahore, Pakistan

Publications

1. **A. Beridze**. Strong shape invariance of Alexander-Spanier normal homology theory, *Topology Appl.* 374 (2025), Paper No. 109240
2. **A. Beridze**, L. Mdzinarishvili. The Tautness Property of Homology Theory, *Trans. A. Razmadze Math. Inst.* 178 (2024), no. 3, 361–372
3. **A. Beridze**, L. Davitadze. On the subgroup of B_4 that contains the kernel of Burau representation, *Trans. A. Razmadze Math. Inst.* 178 (2024), no. 3, 533–537
4. **A. Beridze**, L. Mdzinarishvili. On the Universal Coefficient Formula and Derivative Functor, *J. Math. Sci.*, Vol. 280 (3), 2024, 488–506
5. V. Baladze, **A. Beridze**, L. Mdzinarishvili. On Axiomatic Characterization of Alexander-Spanier Normal Homology Theory of General Topological Spaces, *Topology Appl.* 317 (2022), Paper No. 108166, 25 pp.
6. **A. Beridze**, S. Bigelow, P. Traczyk. On the Burau Representation of B_4 of modulo p , *TMJ*, Special issue, 2021, 57–62
7. V. Baladze, **A. Beridze**, R. Tsinaridze. Strong Shape Theory of Continuous Maps., *TMJ*, Special issue, 2021, 63–98

8. **A. Beridze** and L. Mdzinarishvili. On the Axiomatic Systems of Singular Cohomology Theory, *Topology Appl.* 275 (2020), 107014, 14 pp.
9. **A. Beridze** and P. Traczyk. Burau representation for $n = 4$. *J. Knot Theory Ramifications* 27 (2018), no. 3, 1840002, 6 pp.
10. **A. Beridze** and P. Traczyk. Forks, Noodles and the Burau representation for $n = 4$. *J. A. Razmadze Math. Inst.* 172 (2018), no. 3, part A, 337–353
11. **A. Beridze** and L. Mdzinarishvili. On the Axiomatic Systems of Steenrod Homology Theory of Compact Spaces, *Topology Appl.* 249 (2018), 73–82
12. **A. Beridze** and L. Turmanidze. Semi-Continuity of Strong Homology Groups of Continuous map. *J. Math. Sci.* Vol. 211 (2015), 13–30
13. **A. Beridze**. Strong Homology Groups of Continuous Map. *Proceeding of A. Razmadze Mathematical Institute*, Vol. 162 (2013), 25–35
14. **A. Beridze**. Alexander-Spanier Cohomology of Wallman Compactification. *Proceeding of A. Razmadze Mathematical Institute*, Vol. 151 (2009), 51–62
15. **A. Beridze**. Partially continuous finitely defined Alexander-Spanier cohomology theory with compact support. *Bull. Georgian Acad. Sci.*, 169, 1 (2004), 30–33
16. **A. Beridze**. On Alexander-Spanier type cohomology theory with compact supports. *Bull. Georgian. Aca.Sci.*, 167, 1 (2003), 11–15
17. **A. Beridze**. Partially continuous finitely defined Alexander-Spanier cohomology theory. *Bull. Georgian. Aca.Sci.*, 168, 3 (2003), 444–449
18. **A. Beridze**. On Alexander-Spanier type cohomology theory. *Bull. Georgian. Aca. Sci.*, 166, 3 (2002), 445–449

International Conferences

Abroad

1. **A. Beridze**. On the homological representations of braid group. 2026 Spring Western Sectional Meeting, Boise State University, March 7-8, 2026, Boise, ID, USA
2. **A. Beridze**. 2026 Joint Mathematics Meetings, January 4-7, Washington, USA
3. **A. Beridze**. On the Homological Approach in Burau Representation of Braid Group. *Knots in Washington* 52, December 5-7, 2025, GWU, Washington USA
4. **A. Beridze**. On axiomatic homology theory of general topological spaces. 2023 International Conference on Topology and its Applications, University of Patras, July 3–7, 2023, Greece
5. **A. Beridze**. Axiomatic Homology Theory of General Topological Spaces. *Nonlinear Phenomena in Biology, Ecology, Physics and Mechanics*, October 22–26, 2023, Baku, Azerbaijan
6. **A. Beridze**, P. Traczyk. Burau representation for $n = 4$. *Knots in Gdansk III*, 8–10 October, 2019, Gdansk, Poland
7. **A. Beridze**, V. Baladze. On the Chogoshvili Homology Theory of Continuous Maps of Compact Spaces. 2018 International Conference on Topology and its Applications, July 7–11, 2018, Nafaktos, Greece
8. **A. Beridze**, L. Mdzinarishvili. On the Axiomatic Systems of Steenrod Homology Theory of Compact Spaces. 2018 International Conference on Topology and its Applications, July 7–11, 2018, Nafaktos, Greece

9. **A. Beridze**, V. Baladze. On the Chogoshvili Homology Theory of Continuous Maps of Compact Spaces. 32nd Summer Conference on Topology and Its Applications, June 27–30, 2017, Dayton, USA
10. **A. Beridze**, L. Mdzinarishvili. On the Axiomatic Systems of Steenrod Homology Theory of Compact Spaces. 32nd Summer Conference on Topology and Its Applications, June 27–30, 2017, Dayton, USA
11. **A. Beridze**, V. Baladze. Strong shape and homology of continuous maps. Twelfth Symposium on General Topology and its Relations to Modern Analysis and Algebra, July 25–29, 2016, Prague, Czech Republic
12. **A. Beridze**. Alexander-Spanier Cohomology of Wallman Compactification. 24th Summer Conference on Topology and Its Applications, July 14–17, 2009, Brno, Czech Republic,

In Georgia

1. **A. Beridze**. The Braid Group, Garside Structure and Burau Representations. XV International Conference of the Georgian Mathematical Union, September 1–6, 2025, Batumi, Georgia
2. **A. Beridze**. The Braid Group, Garside Structure and Burau Representations. Functors, Models, and Systems, VI, June 9–13, Kutaisi, Georgia
3. **A. Beridze**. On the Homological Approach in Burau Representation Theory. XIV International Conference of the Georgian Mathematical Union, September 2–7, 2024, Batumi, Georgia
4. **A. Beridze**. On the subgroup of B_4 that contains the kernel of Burau representation, KIU Annual conference 2021 of Mathematics & Computer Science, Kutaisi International University, June 24–27, 2024, Kutaisi, Georgia
5. **A. Beridze**. Axiomatic Homology Theory of General Topological Spaces. XIII International Conference of the Georgian Mathematical Union, September 4–9, 2023, Batumi, Georgia
6. **A. Beridze**. Strong Shape Invariance of Alexander–Spanier Normal Homology Theory, KIU Annual conference 2021 of Mathematics & Computer Science, Kutaisi International University, June 11–13, 2023, Kutaisi, Georgia
7. **A. Beridze**. L. Mdzinarishvili and Strong Homology Theory. XII International Conference of the Georgian Mathematical Union, Mini-Symposium: Topology in Georgia, August 29–September 3, 2022, Batumi, Georgia
8. **A. Beridze**. On the homological approach in Burau representation theory. KIU Annual conference 2022 of Mathematics & Computer Science, Kutaisi International University, July 12–14, 2021, Kutaisi, Georgia
9. V. Baladze, **A. Beridze**, L. Mdzinarishvili. On Axiomatic Characterization of Alexander–Spanier Normal Homology Theory of General Topological. XI International Conference of the Georgian Mathematical Union, August 23–28, 2021, Batumi, Georgia
10. **A. Beridze**. On axiomatic characterization of Alexander–Spanier normal homology theory of general topological spaces. KIU Annual conference 2021 of Mathematics & Computer Science, Kutaisi International University, July 6, 2021, Kutaisi, Georgia
11. **A. Beridze**. Uniqueness Theorem of Exact Homolgy Theory on the Category Mor. IX International Conference of the Georgian Mathematical Union, September 3–8, 2018, Batumi, Georgia
12. V. Baladze, **A. Beridze**, R. Tsinaridze. On Algebraic and Geometric Properties of Continuous Maps and Applications. VIII International Conference of the Georgian Mathematical Union, September 4–8, 2017, Batumi, Georgia

13. **A. Beridze.** Strong shape and homology of continuous maps. VII International Joint Conference of Mathematical Union & Georgian Mechanical Union: Continuum Mechanics and Related Problems of Analysis, September 5–9, 2016, Batumi, Georgia
14. **A. Beridze, V. Baladze.** Strong Shape and Homology Theories of Continuous Map. V International Conference of the Georgian Mathematical Union, September 8–12, 2014, Batumi, Georgia
15. **A. Beridze.** Partial continuity of strong homology group of continuous. III International Conference of the Georgian Mathematical Union, September 2–9, 2012, Batumi, Georgia
16. **A. Beridze, V. Baladze.** On Alexander-Spanier Normal Cohomology Theory. I International Conference of the Georgian Mathematical Union, September 12–19, 2010, Batumi, Georgia

Scientific Grants

Project Title: Algebraic and Topological invariants of groups and monoids
Position: Principal Investigator
Duration: 2026–2028
Funding Agency: Shota Rustaveli National Science Foundation

Project Title: Factorizations of Algebraic Structures and Homological Invariants: A Categorical Approach
Position: Principal Investigator
Duration: 2024–2026
Funding Agency: Shota Rustaveli National Science Foundation

Project Title: Application of Some Topological Invariants
Position: Head of Project /Principal investigator
Duration: 2019
Funding Agency: Batumi Shota Rustaveli State University

Project Title: Geometric and Algebraic Invariants of Topological Spaces and Continuous Maps
Position: Principal Investigator
Duration: 2018
Funding Agency: Batumi Shota Rustaveli State University

Project Title: (Co)homological functors and dimension type functions of topological spaces and continuous maps and its applications
Position: Principal Investigator
Duration: 2015–2018
Funding Agency: Shota Rustaveli National Science Foundation

Project Title: Alexander-Spanier Cohomology Groups of Mapping Cone
Position: Head of Project /Principal investigator
Duration: 2009
Funding Agency: Shota Rustaveli National Science Foundation

Editorial and Refereeing Activities

Member of Editorial Boards:

- Proceedings of A. Razmadze Mathematical Institute
- Journal of Mathematical Sciences

Referee for Scientific Journals:

- Georgian Mathematical Journal
- Proceedings of A. Razmadze Mathematical Institute
- Advanced Studies: Euro-Tbilisi Mathematical Journal
- Journal of Mathematical Sciences

Reviewer of Mathematical Reviews (MathSciNet):