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Website	https://topologyandgrouptheory.wordpress.com
Citizenship	United States of America
Interests	Group Theory (combinatorial, geometric) Topology (algebraic, low-dimensional, point-set) Geometry Applications of Set Theory
Current Position	Heilbronn Research Fellow Heilbronn Institute for Mathematical Research University of Bristol, United Kingdom
Previous Positions	ICMAT Postdoctoral Researcher Severo Ochoa Programme for Centres of Excellence in R&D SEV-20150554 Instituto de Ciencias Matemáticas Madrid, Spain Ended December 2019 UPV/EHU Postdoctoral Researcher European Research Council Grant PCG-336983 University of the Basque Country, Spain Supervisor: Ilya Kazachkov Ended April 2019
Education	Vanderbilt University Ph.D. Mathematics, May 2016; M.S. Mathematics, December 2013 Advisor: Mark Sapir Brigham Young University M.S. Mathematics, April 2010; B.S. Mathematics, April 2008 Orson Pratt Award (Outstanding Senior), Phi Kappa Phi, minor in logic, Graduate Service Award
Accepted Papers	18. S. Corson, <i>Jónsson groups of various cardinalities</i> , Proc. Amer. Math. Soc. 150 (2022), 2771-2775. arXiv:2101.11035 17. O. Bogopolski, S. Corson, <i>Abstract homomorphisms from some topological groups to acylindrically hyperbolic groups</i> , Math. Ann. (2021) https://doi.org/10.1007/s00208-021-02278-4 arXiv:1907.10166 16. S. Corson, <i>Bi-orders do not arise from total orders</i> , Canad. Math. Bull. 65 (2022), 217-224. arXiv:2004.13798 15. S. Corson, <i>Strongly bounded locally indicable groups</i> , Bull. Aust. Math. Soc. 104 (2021), 443-447. arXiv:2004.13798 14. S. Corson, <i>Automatic continuity of \aleph_1-free groups</i> , Israel J. Math 237 (2020), 267-285. arXiv:1808.00272 13. S. Corson, <i>The independence of Stone's Theorem from the Boolean Prime Ideal Theorem</i> , Proc. Amer. Math. Soc. 148 (2020), 5381-5386. arXiv:2001.06513

12. S. Corson, S. Shelah, *Strongly bounded groups of various cardinalities*, Proc. Amer. Math. Soc. 148 (2020), 5045-5057. arXiv:1906.10481
11. S. Corson, O. Varghese, *A Nunke type classification in the locally compact setting*, J. Algebra 563 (2020), 49-52. arXiv:1912.11867
10. S. Corson, *Freely indecomposable almost free groups with free abelianization*, J. Group Theory 23 (2020), 531-543. arXiv:1903.03334
9. S. Corson, I. Kazachkov, *On preservation of automatic continuity*, Monastsh. Math. 191 (2020), 37-52. arXiv:1901.09279
8. S. Corson, *On definable subgroups of the fundamental group*, Topol. Appl. 258 (2019), 336-357. arXiv:1610.00145
7. S. Corson, S. Shelah, *Deeply concatenable subgroups might never be free*, J. Math. Soc. Japan 71 (2019), 1123-1136. arXiv:1804.05538
6. S. Corson, *On subgroups of first homology*, Fund. Math. 247 (2019), 217-228. arXiv:1610.05422
5. S. Corson, *The number of homomorphisms from the Hawaiian earring group*, J. Algebra 523 (2019), 34-52. arXiv:1801.09505
4. G. Conner, S. Corson, *A note on automatic continuity*, Proc. Amer. Math. Soc. 147 (2019), 1255-1268. arXiv:1710.04787
3. S. Corson, *Root extraction in one-relator groups and slenderness*, Comm. in Alg. 46 (2018), 4317-4324. arXiv:1709.02906
2. S. Corson, *Torsion-free word hyperbolic groups are noncommutatively slender*, Int. J. Algebra Comput. 26 (2016), 1467-1482. arXiv:1510.04326
1. G. Conner, S. Corson, *On the first homology of Peano continua*, Fund. Math. 232 (2016), 41-48. arXiv:1509.07055

**Preprints and
Theses**

5. S. Corson, *The nonabelian product modulo sum*, arXiv:2206.02682
4. S. Corson, *The Griffiths double cone group is isomorphic to the triple*, (submitted) arXiv:2012.06794
3. S. Corson, *A widely connected topological space made from diamond*, (submitted) arXiv:2007.10195
2. S. Corson, W. Hojka, *The fundamental group of reduced suspensions*, (submitted) arXiv:1712.08284
1. S. Corson, *On quasi-isometry and choice*, (submitted) arXiv:1609.01353
0. *Subgroups and quotients of fundamental groups*, Ph.D. Thesis, May 2016.
00. *Applications of descriptive set theory in homotopy theory*, M.S. Thesis, April 2010.

Honors and Awards	2020	Heilbronn Research Fellowship
	2019	ICMAT postdoctoral research project “Automatic continuity” Severo Ochoa Program
	2011–2016	University Graduate Fellowship (\$10,000/annum in addition to the standard stipend)
	2011	Winter Semester: Perfect 8/8 overall student ratings of instructor
	2010	Graduate Service Award
	2008	Graduation Magna Cum Laude, GPA 3.98
	2008	Orson Pratt Award (Outstanding Graduating Senior)
	2008	National Society of Collegiate Scholars
	2007	Golden Key Society, Phi Kappa Phi
	2006	Phi Eta Sigma

Refereeing & Quick Opinion Groups, Geometry, and Dynamics (2); Journal of the London Mathematical Society; Journal of Algebra (2); International Journal of Algebra and Computation (2); Journal of the Australian Mathematical Society; Journal of Group Theory; Open Mathematics; Arab Journal of Mathematical Sciences; Topology and its Applications; Glasnik Matematicki; Hacettepe Journal of Mathematics and Statistics; Topology Proceedings.

Meetings Organized University of Bristol Algebra Seminar co-organizer (2021-2022)

Talks

- ▶ *Infinite groups which behave like finite groups*, Pure Mathematics Colloquium, University of Southampton, UK.
11 March 2022
- ▶ *A space which is slightly connected and very thick*, University of Bristol Geometry & Topology Seminar (online), UK.
8 February 2022
- ▶ *A thinly connected thick space*, Algebra Seminar, Department of Mathematics UPV/EHU, Spain.
16 November 2021
- ▶ *Some finite-like groups*, Groups and Dynamics Seminar (online), Texas A & M University, USA.
27 October 2021
- ▶ *The harmonic archipelago and double cone have isomorphic fundamental group*, Cannon Seminar (online), BYU, USA.
15 June 2021
- ▶ *Groups with finitary behavior*, Universität Magdeburg Algebra and Geometry Seminar (online), Germany.
15 June 2021
- ▶ *Infinite groups which behave like finite groups*, University of Bristol Algebra Seminar (online), UK.
24 March 2021
- ▶ *Groups with finitary behavior*, London Algebra Colloquium (online), Queen Mary University of London, UK.
4 March 2021
- ▶ *Some exotic finite-like groups*, Geometry, Topology and Group Theory Seminar (online), Mathematisches Institut, Universität Münster, Germany.
2 March 2021
- ▶ *Infinite groups which behave like finite groups*, Algebra Seminar (online), Department of Mathematics UPV/EHU, Spain.
17 February 2021
- ▶ *Groups whose proper subgroups are small*, Cannon Seminar (online), BYU, USA.
9 February 2021
- ▶ *An exotic connected space*, Set Theory in the UK (online conference, minitalk).

- 4 December 2020
- ▶ *A strange almost free group*, Colloquium, West Chester University of Pennsylvania, USA.
- 27 February 2020
- ▶ *A weird almost free group*, Algebraic Cryptography Seminar, Stevens Institute of Technology, USA.
- 24 February 2020
- ▶ *Automatic continuity in its elementary forms*, Geometry, Topology and Group Theory Seminar, Mathematisches Institut, Universität Münster, Germany.
- 3 December 2019
- ▶ *Almost free groups of an unusual sort*, Algebra seminar, Technische Universität Wien, Vienna, Austria.
- 22 November 2019
- ▶ *Some anti-geometric groups*, Groups and their Actions 2019 (conference, contributed talk), Gliwice, Poland.
- 9 September 2019
- ▶ *Some groups which are extraordinarily close to being free*, Operator Algebras, Groups, and Applications to Quantum Information (conference), Madrid, Spain.
- 17 June 2019
- ▶ *Some groups which are extraordinarily close to being free*, Mathematics Seminar, Universidad Autónoma de Madrid, Spain.
- 30 May 2019
- ▶ *Some unusual almost free groups*, Arches Topology Conference, Hurricane, USA.
- 25 April 2019
- ▶ *How close can you be to free?*, Algebra Seminar, Department of Mathematics UPV/EHU, Spain.
- 20 March 2019
- ▶ *Very discrete groups*, Logic Seminar, University of Illinois at Chicago, USA.
- 15 January 2019
- ▶ *The most discrete of groups*, Algebraic Cryptography Seminar, Stevens Institute of Technology, USA.
- 20 December 2018
- ▶ *New groups of automatic continuity*, Séminaire Gaston Darboux, Institut Montpelierain Alexander Grothendieck, France.
- 23 November 2018
- ▶ *The most discrete of groups*, Algebra Seminar, Universitat Politècnica de Catalunya Barcelona, Spain.
- 13 November 2018
- ▶ *New automatic continuity from old techniques*, Pure Mathematics Colloquium, University of Southampton, UK.
- 9 November 2018
- ▶ *The nicest possible homomorphisms*, Algebra Seminar, University of Ljubljana, Slovenia.
- 25 October 2018
- ▶ *The homomorphisms from the Hawaiian earring group*, Topology Seminar, University of Ljubljana, Slovenia.
- 22 October 2018
- ▶ *When a map is necessarily continuous*, Colloquium, Universität Düsseldorf, Germany.
- 19 October 2018
- ▶ *The metric path to slenderness*, Geometric Group Theory Seminar, Universität Düsseldorf, Germany.
- 18 October 2018
- ▶ *Homomorphisms are necessarily nice*, Algebra Seminar, Department of Mathematics

UPV/EHU, Spain.

2 October 2018

- ▶ *The price of freedom*, Mathematics Seminar, Universidad Autónoma de Madrid, Spain.

17 May 2018

- ▶ *What can fail without choice*, Algebra Seminar, Department of Mathematics UPV/EHU, Spain.

24 April 2018

- ▶ *Prime root extraction in one-relator groups and slenderness*, Topology Seminar, BYU, USA.

18 October 2017

- ▶ *Some new results in automatic continuity*, Wasatch Topology Conference, USA.

14 August 2017

- ▶ *Introduction to my research and why it is interesting*, Hiring Committee, NUI Galway, Ireland.

28 June 2017

- ▶ *The definable subgroups of the fundamental group*, Colloquium, BYU, USA.

6 October 2016

- ▶ *Some new results about n -slender groups*, Topology & Group Theory Seminar, Vanderbilt University, USA.

2 March 2016

- ▶ *Some new results on Peano continua and n -slenderness*, Geometry and Topology Seminar, University of Tennessee, Knoxville, USA.

19 October 2015

- ▶ *Lebesgue space and Peano continua*, Topology Seminar, BYU, USA.

26 March 2015

- ▶ *The Grigorchuk group*, Topology Seminar, BYU, USA.

25 November 2013

- ▶ *Weak presentations of groups*, Workshop on Topology of Wild Spaces and Fractals, Strobl, Austria.

8 July 2011

**Teaching
(University of
Bristol)**

Fall 2021 Instructor, Topics in Modern Geometry

**Teaching
(Vanderbilt
University)**

Winter 2016 Teaching Assistant, Probability and Statistics
Fall 2015 Instructor, Calculus I
Fall 2014 Instructor, Calculus I
Winter 2014 Teaching Assistant, Multivariable Calculus and Linear Algebra
Fall 2013 Teaching Assistant, Calculus I
Winter 2013 Teaching Assistant, Differential Equations and Linear Algebra
Fall 2012 Teaching Assistant, Calculus II

**Teaching
(Brigham Young
University)**

Spring 2011 Instructor, Calculus I
Winter 2011 Instructor, Calculus I
Fall 2010 Instructor, Calculus I
Summer 2010 Instructor, Calculus I
Winter 2010 Teaching Assistant, Calculus II
Fall 2009 Teaching Assistant, Calculus II
Summer 2009 Instructor, Trigonometry
Winter 2009 Teaching Assistant, Calculus I
Fall 2008 Teaching Assistant, Topology
Fall 2008 Teaching Assistant, Complex Analysis

Other Skills Languages: English (native), Russian (conversational), Spanish (functional), German (meager-travel); LaTeX, Beamer

References

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