

Curriculum Vitae

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Contact Information	Bin Sun Mathematical Institute University of Oxford Radcliffe Observatory, Andrew Wiles Building, Woodstock Rd Oxford, UK, OX2 6GG Webpage: https://sites.google.com/view/binsun/ Email: sunsun335@gmail.com Tel: +1 747-281-8589
Research Interest	Geometric group theory
Employments	Oct. 2020 – Present: University of Oxford, Postdoctoral Researcher in Geometric Group Theory Aug. 2019 – July. 2020: University of California, Riverside, Visiting Assistant Professor (postdoctoral)
Education	Ph.D. Mathematics Aug. 2014 – June 2019 Mathematics Department, Vanderbilt University Nashville, TN 37240, U.S.A. <ul style="list-style-type: none">• Academic advisor: Denis Osin B.S. Mathematics Sep. 2010 – Jun. 2014 School of Mathematics and Computational Science, Sun Yat-sen University Guangzhou, Guangdong 510275, P. R. China
Publication	[1] “A dynamical characterization of acylindrically hyperbolic groups,” <i>Algebr. Geom. Topol.</i> , 19(4):1711–1745, 2019. [2] “Cohomology of group theoretic Dehn fillings I: Cohen–Lyndon type theorems,” <i>J. Algebra</i> 542:277–307, 2020.
Preprint	[1] “Cohomology of group theoretic Dehn fillings II,” (with Nansen Petrosyan) <i>arXiv:1908.01290</i> .
Awards	[1] Bjarni Jónsson Prize for Research (Vanderbilt University) 2019
Talks & Posters	[1] “Acylindrical group actions on hyperbolic metric spaces,” Colloquium talk, University of Southampton, virtual meeting, Nov, 2020. [2] “Cohomology of group theoretic Dehn fillings,” Seminar talk, University of Oxford, virtual meeting on Teams, Nov, 2020. [3] “Acylindrical hyperbolicity of non-elementary convergence groups,” Seminar talk, Texas A&M University, virtual meeting on Zoom, May, 2020. [4] “Cohomology of group theoretic Dehn fillings,” <i>AMS Sectional Meeting</i> , Riverside, California, USA, Nov, 2019. [5] “Acylindrical hyperbolicity of non-elementary convergence groups,” Seminar talk, University of California, Riverside, Riverside, California, USA, Oct, 2019.

- [6] “Cohomology of group theoretic Dehn fillings,” Seminar talk, University of Texas, Austin, Texas, USA, April, 2019.
- [7] “Cohomology of group theoretic Dehn fillings,” *44th Annual New York State Regional Graduate Mathematics Conference*, Syracuse, New York, USA, March, 2019.
- [8] “Cohomology of group theoretic Dehn fillings,” Seminar talk, University of Florida, Gainesville, Florida, USA, March, 2019.
- [9] “Cohomology of group theoretic Dehn fillings,” *Spring Topology and Dynamical System Conference*, Birmingham, Alabama, USA, March, 2019.
- [10] “Cohomology of group theoretic Dehn fillings,” Seminar talk, Vanderbilt University, Nashville, Tennessee, USA, Feb, 2019.
- [11] “Acylindrical hyperbolicity of non-elementary convergence groups,” Seminar talk, Georgia Institute of Technology, Atlanta, Georgia, USA, Feb, 2019.
- [12] “Cohomology of group theoretic Dehn fillings,” Seminar talk, Cornell University, Ithaca, New York, USA, Nov, 2018.
- [13] “Acylindrical hyperbolicity of non-elementary convergence groups,” *AMS Sectional Meeting*, Nashville, Tennessee, USA, April, 2018.
- [14] “Acylindrical hyperbolicity of non-elementary convergence groups,” *Topological and Homological Methods in Group Theory*, Bielefeld, Germany, April, 2018.
- [15] “A dynamical characterization of acylindrically hyperbolic groups,” *Geometric and Asymptotic Group Theory with Applications*, Bilbao, Spain, June, 2017.
- [16] “A dynamical characterization of acylindrically hyperbolic groups,” *Conference on Geometric and Combinatorial methods in group theory, in honor of Mark Sapir’s 60th birthday*, Champaign, Illinois, USA, May, 2017 (poster presentation).
- [17] “A dynamical characterization of acylindrically hyperbolic groups,” *Young Geometric Group Theory VI*, Oxford, UK, Mar, 2017 (poster presentation).

Additional Training

- [1] *Simons Semester Geometric and Analytic Group Theory*, Warsaw, Poland, May, 2019.
- [2] *Tech Topology Conference*, Atlanta, Georgia, USA, Dec, 2018.
- [3] *Geometric and Asymptotic Group Theory with Applications*, Seoul, Korea, July, 2018.
- [4] Thematic program “*L₂-invariants and their Analogues in Positive Characteristic*,” Madrid, Spain, Feb, 2018.
- [5] *Shanks Workshop on Geometric Methods in Group Theory*, Nashville, Tennessee, USA, April, 2016.

Teaching

- Instructor, MATH 151C Advanced Calculus, University of California, Riverside, 2020 Spring.
- Instructor, MATH 46 Ordinary Differential Equations, University of California, Riverside, 2020 Spring.
- Instructor, MATH 11 Introduction to Discrete Structures, University of California, Riverside, 2020 Winter.

- Instructor, MATH 9A First-year Calculus, University of California, Riverside, 2020 Winter.

- Instructor, MATH 46 Ordinary Differential Equations, University of California, Riverside, 2019 Fall.

- Instructor, MATH 7A Calculus for Life Science, University of California, Riverside, 2019 Fall.

Language Skills

English, Chinese, Cantonese.