Publication List

Dan Margalit

Research Articles

1. Geometry versus algebra in the mapping class group, *Ph.D. thesis*, University of Chicago, 2003.
2. A lantern lemma, *Algebraic and Geometric Topology* 2: 1179–1195, 2002.
3. Commensurations of the Johnson kernel, with Tara E. Brendle, *Geometry and Topology* 8: 1361–1384, 2004.
4. Automorphisms of the pants complex, *Duke Math. Journal* 121(3): 457–479, 2004.
5. Braid groups and the co-Hopfian property, with Robert W. Bell, *Journal of Algebra* 303: 275–294, 2006.
6. Abstract commensurators of braid groups, with Christopher J. Leininger, *Journal of Algebra* 299 (2): 447–455, 2006.
7. Curve complexes and finite index subgroups of mapping class groups, with Jason Behrstock, *Geometriae Dedicata* 118(1): 71–85, 2006.
8. Weil–Petersson isometries via the pants complex, with Jeffrey F. Brock, *Proceedings of the AMS* 135 (2007), 795–803.
9. A homological recipe for pseudo-Anosovs, with Steven Spallone, *Mathematical Research Letters* 14 (2007), no. 5, 853–863.
10. Injections of Artin groups, with Robert W. Bell, *Commentarii Mathematici Helvetici*, 82 (2007), 725–751.
11. Dimension of the Torelli group for $\mathrm{Out}(F_n)$, with Mladen Bestvina and Kai-Uwe Bux, *Inventiones Mathematicae* 170 (2007), no. 1, 1–32.
12. Addendum to: Commensurations of the Johnson kernel, with Tara E. Brendle, *Geometry and Topology* 12, 97–101, 2008.
13. The lower central series and pseudo-Anosov dilatations, with Benson Farb and Christopher J. Leininger, *The American Journal of Mathematics*, 130(3): 799–827, 2008.
14. Geometric presentations for the pure braid group, with Jon McCammond, *Journal of Knot Theory and Its Ramifications* 18 (1) 1–20, 2009.
15. Dehn twists have roots, with Saul Schleimer, *Geometry & Topology* 13 (2009), 1495–1497.
16. Two-generator subgroups of the pure braid group, with Chris Leininger, *Geometriae Dedicata* 147(1): 107-113, 2010.
17. The dimension of the Torelli group, with Mladen Bestvina and Kai-Uwe Bux, *Journal of the American Mathematical Society* 23 (2010), no. 1, 61–105.

18. Small dilatation pseudo-Anosovs and 3-manifolds, with Benson Farb and Chris Leininger, *Advances in Mathematics* 228(3): 1466-1502, 2011.

19. Generating the Torelli group, with Allen Hatcher, *L'Enseignement Mathématique* 58 (2012), 165-188.

20. On the number and location of short geodesics in moduli space, with Christopher J. Leininger, *Journal of Topology* 6(1), 30-48, 2013.

21. Indecomposable surface bundles over surfaces, with Inanc Baykur, *Journal of Topology and Analysis* 5(2), 161–181, 2013.

22. Cohomology of the hyperelliptic Torelli group, with Tara E. Brendle and Leah Childers, *Israel Journal of Mathematics* 195, 613–630, 2013.

23. Point pushing, homology, and the hyperelliptic involution, with Tara Brendle, *Michigan Mathematical Journal* 62(3), 451–473, 2013.

24. Lefschetz fibrations and Torelli groups, with Inanc Baykur, *Geometriae Dedicata*, 177(1), 275-291, 2015.

25. Abstract commensurators of right-angled Artin groups and mapping class groups, w/ Matt Clay and Chris Leininger, *Mathematical Research Letters*, 21 (3) 461–467, 2014.

26. Generators for the hyperelliptic Torelli group and the kernel of the Burau representation at $t = -1$, with Tara Brendle and Andrew Putman, *Inventiones Mathematicae* 200 (1) 263–310, 2015.

27. Factoring in the hyperelliptic Torelli group, with Tara Brendle, *Mathematical Proceedings of the Cambridge Philosophical Society*, 159 (02), 207–217, 2015.

28. The level four subgroup of the braid group, with Tara E. Brendle, *Journal für die reine und angewandte Mathematik*, 735, 249–264, 2018.

29. Efficient geodesics and an effective algorithm for distance in the complex of curves, with Joan Birman and Bill Menasco, *Mathematische Annalen* 366(3), 1253–1279, 2016.

30. Pseudo-Anosov stretch factors and homology, with Ian Agol and Christopher Leininger, *Journal of the London Mathematical Society* 93 (3), 664–682, 2016.

Books

31. A Primer on Mapping Class Groups, with Benson Farb, 472 pages, *Princeton Mathematical Series* 49, Princeton University Press, 2012.

32. Thurston's Work on Surfaces, with Djun Kim. English translation of "Travaux de Thurston sur les surfaces," edited by A. Fathi, F. Laudenbach, and V. Poénaru. *Mathematical Notes* 48, Princeton University Press, 2012.

33. Office Hours with a Geometric Group Theorist, edited with Matt Clay, 464 pages, to appear in Princeton University Press, July 2017.

34. Interactive Linear Algebra, with Joe Rabinoff, 456 pages, Jan 2018.

Expository Articles

35. A Carnival of Calculus, *MAA FOCUS*, May 2008.
36. Review of "Thurston's Work on Surfaces," Bull. AMS 51 (1), Jan 2014.
37. The mathematics of Joan Birman, Notices of the AMS, to appear Feb 2019.