

William A. Bogley

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Professional Employment

Associate Dean, Oregon State University Honors College, 2006-
Assistant Dean, Oregon State University Honors College, 2004-2006
Visiting Professor, Oregon State University Honors College, 2002-2004
Professor, Oregon State University, 2001-
Associate Professor, Oregon State University, 1995-2001
Assistant Professor, Oregon State University, 1990-1995
Visiting Assistant Professor, Dartmouth College, 1990
Assistant Professor, Tufts University, 1988-1990
Assistant Professor, Portland State University, 1987-1988

Education

Ph. D. in Mathematics, University of Oregon, 1987 (Advisor: Professor A. J. Sieradski)
M. S. in Mathematics, University of Oregon, 1983
A. B. in Mathematics, Dartmouth College, 1981

Publications

1. W. A. Bogley, Retractive Maps and Local Collapsibility, Ph. D. Dissertation (University of Oregon, 1987)
2. W. A. Bogley, Local collapses for diagrammatic reducibility, in: Low Dimensional Topology and Combinatorial Group Theory, M. P. Latiolais, editor, Lecture Notes in Math. 1440 (Springer-Verlag, 1990) 27-38. MR92j: 57002
3. W. A. Bogley, An embedding for π_2 of a subcomplex of a finite contractible two-complex, Glasgow Math. J. 33 (1991) 365-371. MR92k: 57003
4. W. A. Bogley, An identity theorem for multi-relator groups, Math. Proc. Camb. Phil. Soc. 109 (1991) 313-321. MR92c: 20056
5. W. A. Bogley and S. J. Pride, Aspherical relative presentations, Proc. Edinburgh Soc. 35 (1992) 1-39. MR93d: 57019
6. W. A. Bogley and M. A. Gutierrez, Mayer-Vietoris sequences in homotopy of 2-complexes and in homology of groups, J. Pure Appl. Algebra 77 (1992) 39-65. MR93e: 20069
7. W. A. Bogley and S. J. Pride, Computing generators of π_2 , in: Two Dimensional Homotopy and Combinatorial Group Theory, C. Hog-Angeloni, W. Metzler, and A. J. Sieradski, editors, London Math. Soc. Lecture Note Series 197 (Cambridge University Press, 1993) 157-188. MR95g: 57006
8. W. A. Bogley, J. H. C. Whitehead's asphericity question, in: Two-Dimensional Homotopy and Combinatorial Group Theory, C. Hog-Angeloni, W. Metzler, and A. J. Sieradski, editors, London Math. Soc. Lecture Note Series 197 (Cambridge University Press, 1993) 309-334. MR95g:57006
9. W. A. Bogley, Unions of Cockcroft two-complexes, Proc. Edinburgh Math. Soc. 37 (1994) 317-324. MR95e:57005
10. W. A. Bogley and M. N. Dyer, A group-theoretic reduction of J. H. C. Whitehead's asphericity question, in: Groups-Korea '94 (Walter de Gruyter, 1995) 15-24. MR98f:57005

11. W. A. Bogley and R. O. Robson, CalculusQuest™: Differential Calculus (1996), <http://oregonstate.edu/instruct/mth251/cq>.
12. W. A. Bogley, J. Dorbolo, R. O. Robson, and J. Sechrest, New pedagogies and tools for web-based calculus, in: WebNet '96, World Conference of the Web Society Proceedings, Assoc. for the Advancement of Computing Education, edited by H. Maurer (1996) 33-39.
13. Y. G. Baik, W. A. Bogley, and S. J. Pride, On the asphericity of length four relative group presentations, *Internat. J. Algebra. Comput.* **7** (1997) 277-312. MR98g:20047
14. W. A. Bogley, J. Dorbolo, R. O. Robson, and J. Sechrest, Pedagogic innovation in web-based instruction, in: Proceedings of the Ninth International Conference on Technology in Collegiate Mathematics (Addison Wesley, 1998) 421-425.
15. J. Alonso, W. A. Bogley, R. M. Burton, S. J. Pride, and X. Wang, Second order Dehn functions of groups, *Quart. J. Math. Oxford Ser. (2)* **49** (1998) 1-30. MR99c:20047
16. W. A. Bogley and A. J. Sieradski, Weighted combinatorial group theory and wild metric complexes, in *Groups-Korea '98*, edited by A. C. Kim, (de Gruyter, 2000), 53-80.
17. W. A. Bogley and N. D. Gilbert, The homology of Peiffer products of groups, *New York J. Math* **6** (2000), 55-71.
18. W. A. Bogley, N. D. Gilbert, and James Howie, Cockcroft properties of Thompson's group, *Canad. Math. Bulletin* **43** (2000), 268-281.
19. W. A. Bogley, R. M. Burton, C. Escher, and D. Garity, *Oregon State University Mathematics Department Study Guide for Math 252—Integral Calculus*, Fifth Edition (2000).
20. W. A. Bogley and J. Harlander, Homological decision problems for finitely generated groups with solvable word problem, *Internat. J. Algebra Comput.* **12** (2002), 213-221.
21. W. A. Bogley and J. Harlander, Improving tameness for metabelian groups, *New York J. Math.* **10** (2004), 287-294 (electronic).

Preprints

1. W. A. Bogley and A. J. Sieradski, Universal path spaces.
<http://ucs.orst.edu/~bogleyw>

Awards and Funding

- Integrating Engineering and Mathematics Curricula; PI for a curriculum development project sponsored by a William and Flora Hewlett Foundation grant to the Oregon State University College of Engineering (\$20,878).
- Honorable Mention, Outstanding Teaching Award, Oregon State University Honors College, 2003.
- Sandy & Elva Sanders Eminent Professorship, Oregon State University Honors College, 2001.
- Outstanding Teaching Award, Oregon State University Honors College, 2000.
- Graduate Student Faculty Teaching Award, Oregon State University Department of Mathematics, 2000.
- CalculusQuest™, a fully developed web-based course in Differential Calculus and co-authored with Oregon State University colleague R. O. Robson, received Honorable Mention from the Paul Allen Foundation in May 1998 as part of its Outstanding Online Education competition. From the citation for CalculusQuest™:

Extensive use of online exercises and quizzes organized around a mountain climbing metaphor illustrate the potential for teaching higher order mathematics online in a predominantly asynchronous mode.

- NSF Collaborative Research Grant (CoPI with M. N. Dyer) to fund interaction between mathematicians in Oregon and in Frankfurt, Germany. Companion grant to German counterparts funded by DAAD, 1997-1998.
- UK Engineering and Physical Sciences Research Council Visiting Fellowship (GR/L49932); funding arranged and hosted by N. D. Gilbert at Heriot-Watt University, Edinburgh, Apr-Aug 1997.

- Loyd Carter Award for Inspirational Teaching, Oregon State University College of Science, 1996.
- Graduate Student Faculty Teaching Award, Oregon State University Department of Mathematics, 1996.
- Visiting Scholar (Frankfurt), DFG, July 1992.
- Visiting Scholar (Glasgow), Edinburgh Mathematical Society, July 1989 and July 1991.

Invited Talks (Teaching)

- Fall Forum 1999, Oregon State University—University-wide forum on teaching sponsored by the Faculty Senate Committee on the Advancement of Teaching and the College of Liberal Arts Center for Teaching Excellence
- Award-Winning Online Instruction Conference, University of Kansas, May 1999.

Invited Talks (Research)

- Annual Meeting of the AMS-MAA, San Antonio, Texas, Jan 1999—Special Session in Combinatorial Topology
- Groups-Korea 98, Pusan, August 1998
- Southeast Regional Meeting of the AMS, Baton Rouge, Louisiana, April 1996—Special Session in Geometric Group Theory
- Cascade Topology Seminar, Eugene, Oregon, May 1991.

Selected Contributed Research Talks and Colloquia

- CAT '05 Conference on Algebraic Topology, Krakow, Poland, June 2005
- Tufts University Mathematics Colloquium, Medford, Massachusetts, March 2003
- International Conference in Groups and Semi-groups, Lincoln, Nebraska, May 2000

- Groups-St. Andrews in Bath, August 1997
- University of Newcastle Algebra Seminar, July 1997
- University of Glasgow Algebra Seminar, June 1997
- Groups-Korea 94, Pusan, August 1994 (two talks)
- Workshop on Geometric and Combinatorial Methods in Group Theory, International Centre for the Mathematical Sciences, Edinburgh, Scotland, March 1993
- SUNY-Albany Conference in Low Dimensional Topology and Combinatorial Group Theory, October 1992
- Niedrigdimensionale Topologie und geometrische Gruppentheorie, Bochum, Germany, July 1992
- J. W. Goethe Universität, Frankfurt am Main, June 1992
- Groups-St. Andrews, August 1989
- Fall Foliage Seminar, Enfield, N. H. October 1988.

Reviewing Mathematical Reviews, American Mathematical Society, London Mathematical Society, International Journal of Algebra and Computation, Journal of Group Theory, Glasgow Mathematics Journal, Communications in Algebra, Topology and its Applications, Geometry & Topology, Proceedings of the Edinburgh Mathematical Society, Mathematica Scandinavica.

Doctoral Students

- Roger Ahders: ABD, Asst. Prof. at Mendocino College, California
- Julie Berglund: Ph.D. June 2000, Asst. Prof. at Linfield College, Oregon
- Igor Biskup: Ph.D. June 2000
- Anton Kaul: Ph.D. June 2000, Asst. Prof. at Cal-Poly San Luis Obispo, California
- Seong Kun Kim: Ph.D. June 2003

- Barrett Church: ABD
- Nicole Webb: current

Masters Students

- Steve Black: ca. 1996
- Liam Finlay: 2004
- Amanda Blaker, Andrew Blood, Shari Ultman, Dave Wing: 2005

Departmental and University Service

Mathematics Advisory Committee, (2004-2005)

Mathematics Undergraduate Advising Committee, (2004-present)

Mathematics Qualifying Exam Committee, (2003-2005)

Pre-College Programs Work Group (appointed by Provost), (2005)

WIC Advisory Panel, (2005-present)

Undergraduate Education Council, (2003-2004)

Author of Mathematics Department Self-Study, (2002-2003)

Faculty Search Committee, (2002-2003)

University Faculty Senate, (2000-2003)

Teaching Committee Chair, Department of Mathematics (1999-2004)

University Honors College Council, Faculty Senate (1999-2004, Chair 2001-2004)

Chair Search Committee, Department of Mathematics (1996-1997)

Graduate Committee, Department of Mathematics (1995-1997)

Colloquium Committee, Department of Mathematics (1993-1994)

Departmental Review Committee, Department of Mathematics (1992)

Library Committee, Department of Mathematics (1991-1994)

Undergraduate Advisor, Department of Mathematics (1990-1993)