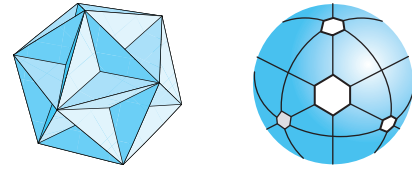


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CURRICULUM VITAE



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PROFESSIONAL PREPARATION

North Central College, Mathematics, B.S. 1993 (Summa Cum Laude; Valedictorian).

Johns Hopkins University, Mathematics, Ph.D. 1999.

APPOINTMENTS

Visiting Professor, *Université de Nice*, Summer 2010.

Visiting Associate Professor, *UC Berkeley*, 2009 – 2010.

Research Member, *Mathematical Sciences Research Institute*, Fall 2009.

Associate Professor, *Williams College*, 2007 – present.

Visiting Associate Professor, *Ohio State University*, 2005 – 2006.

Assistant Professor, *Williams College*, 2002 – 2007.

Ross Assistant Professor, *Ohio State University*, 1999 – 2002.

PAPERS

1. H. Cheng, S. Devadoss, B. Li, A. Risteski. Skeletal rigidity of phylogenetic trees, *preprint*.
2. H. Cheng, S. Devadoss, B. Li, A. Risteski. Unfolding higher-dimensional polytopes, *preprint*.
3. S. Devadoss and J. Morava. Diagonalizing the genome I, *preprint*.
4. S. Devadoss, T. Ueda. Origami with thick paper, *preprint*.
5. S. Devadoss, B. Fehrman, T. Heath, A. Vashist. Moduli spaces of punctured Poincaré disks, to appear in the book: *Algebra, Combinatorics and Geometry: Tamari Memorial Festschrift*.

6. M. Carr, S. Devadoss, S. Forcey. Pseudograph associahedra, *Journal of Combinatorial Theory, Series A* **118** (2011) 2035-2055.
7. S. Devadoss, T. Heath, W. Vipismakul. Deformations of bordered Riemann surfaces and associahedral polytopes, *Notices of the American Mathematical Society* **58** (2011) 530-541.
8. S. Devadoss, R. Shah, Z. Shao, E. Winston. Deformations of associahedra and visibility polygons, *submitted*.
9. S. Armstrong, M. Carr, S. Devadoss, E. Engler, A. Leininger, M. Manapat. Particle configurations and Coxeter operads, *Journal of Homotopy and Related Structures*, **4** (2009) 83-109.
10. J. Danciger, S. Devadoss, J. Mugno, D. Sheehy, R. Ward. Shape deformation in continuous map generalization, *GeoInformatica* **13** (2009) 203- 221.
11. S. Devadoss. A realization of graph associahedra, *Discrete Mathematics* **309** (2009) 271-276.
12. S. Devadoss and S. Forcey. Marked tubes and the graph multiplihedron, *Algebraic and Geometric Topology* **8** (2008) 2081-2108.
13. S. Devadoss and J. Mugno. Juggling braids and links, *Mathematical Intelligencer* **29** (2007) 15-22.
14. M. Carr and S. Devadoss. Coxeter complexes and graph associahedra, *Topology and its Applications* **153** (2006) 2155-2168.
15. J. Danciger, S. Devadoss, D. Sheehy. Compatible triangulations and series-triangular graphs, *Computational Geometry: Theory and Applications* **34** (2006) 195-202.
16. S. Devadoss. Combinatorial equivalence of real moduli spaces, *Notices of the American Mathematical Society* **51** (2004) 620-628.
17. E. Demaine, S. Devadoss, J.S. Mitchell, J. O'Rourke. Continuous foldability of polygonal paper, Proceedings of the 16th Canadian Conference on Computational Geometry (2004) 64-67.
18. S. Devadoss. A space of cyclohedra, *Discrete and Computational Geometry* **29** (2003) 61-75.
19. S. Devadoss and R. Read. Cellular structures determined by polygons and trees, *Annals of Combinatorics* **5** (2001) 71-98.
20. S. Devadoss. Tessellations of moduli spaces and the mosaic operad, in *Homotopy Invariant Algebraic Structures*, Contemporary Mathematics **239** (1999) 91-114.

PROJECTS

Discrete and Computational Geometry: An undergraduate textbook, coauthored with Joseph O'Rourke, published by Princeton University Press, May 2011.

The Shape of Nature: A 36-lecture DVD course on geometry and topology, aimed at the general public, published by the Great Courses.

AWARDS

Henry L. Alder Award, national award given by the MAA for distinguished teaching by a beginning college or university mathematics faculty member, 2007.

Outstanding Young Alumni Award for my alma mata North Central College, 2008.

William Kelso Morrill Award (first recipient), awarded for excellence in teaching mathematics, Johns Hopkins University, 1995.

Outstanding Student of Mathematics, North Central College, 1991, 1992, 1993.

GRANTS

1. Marion and Jasper Whiting Fellowship, 2010 – 2011.
2. Mellon Foundation Faculty Career Enhancement Grant, 2007 – 2008.
3. NSF grant DMS-0310354 with \$145,478 funding (PI) from a joint venture between the NSF and DARPA, titled *Geodetic Surfaces: Understanding their geometry and topology*, 2003 – 2007.
4. NSF grant DMS-0353634 with \$446,312 funding (senior personnel) for the Williams SMALL REU site, 2004 – 2009.
5. NSF grant DMS-0850577 with \$630,216 funding (senior personnel) for the Williams SMALL REU site, 2009 – 2014.
6. NSF travel grant to ICM in Beijing, 2002.

THESES ADVISED

- Brian Li (Williams): in progress.
- Rahul Shah (Williams): “*Compactifications of singular varieties*” (2009).
- Ezra Winston (Bard): “*Stress analysis, origami folds, and curvature*” (2009).
- Trubee Davison (Williams; mini-thesis): “*Sol LeWitt and Coxeter complexes*” (2008).
- Katie Baldiga (Williams): “*Slicing polyhedra and convex cross-sections*” (2007).
- Colin Carroll (Williams): “*Weighted blow-ups of the braid arrangement*” (2007).
- Tomio Ueda (Williams): “*Thick origami*” (2006).
- John Mugno (Williams): “*Juggling braids, links, and Artin groups*” (2005).
- Eric Engler (Williams): “*Blow-ups of spherical Coxeter complexes*” (2004).
- J. Jacob Tawney (Ohio State; Masters Thesis): “*Jugglinks*” (2001).

ACTIVITIES

1. AMS Mathematics Research Communities (co-organizer) on *Discrete and Computational Geometry*, Snowbird Resort, June 2012.
2. MAA Short Course (co-organizer) on *Discrete and Computational Geometry* at the Joint Meetings, January 2012.
3. Referee for the following journals:
 - Advances in Mathematics, Inventiones, MAA Monthly, Electronic Journal of Combinatorics, International Mathematics Research Notices, Documenta Mathematica, Topology and its Applications, Homology, Homotopy and Applications, SIAM Journal on Discrete Mathematics.
4. Reviewer for *Mathematical Reviews* and *Zentralblatt MATH*.
5. Faculty advisor for SMALL program in summers 2003, 2004, 2007, 2008, 2011.
6. Organizer of *Reclaiming da Vinci* math-art conference at Williams College (2008), and co-organizer of *Math Art Laboratory* at APE Studios (2007).
7. Faculty program director of Dodd neighborhood (2006 – 2009, 2010-2011).
8. Editor for *Carus Math Monographs* series of books for the MAA (2009 – current).

SELECTED INVITED ADDRESSES

1. Plenary speaker, *Discrete Math Days* conference, June 2011.
2. Pi-Mu-Epsilon Induction speaker, Siena College, April 2011.
3. Martin Lecture Series, Johns Hopkins University, March 2011.
4. Algebra-Combinatorics Seminar, Pomona College, February 2011.
5. Invited speaker, *Renaissance Weekend*, Laguna Niguel, CA, February 2011.
6. Colloquium, Central Connecticut State University, October 2010.
7. Topology and Combinatorics, Sectional A.M.S. Meeting in Syracuse NY, October 2010.
8. Topology (3-series) Minicourse, Université de Nice, June 2010.
9. Google Research Seminar, Mountain View, CA, April 2010.
10. Geometry Seminar, San Francisco State University, April 2010.
11. Algebra Seminar, Colorado State University, April 2010.
12. Colloquium, Claremont Colleges, March 2010.
13. Invited speaker, Banff BIRS program on *Volume Inequalities*, March 2010.
14. Pixar Animation Studios, January 2010.
15. Geometry Seminar, National Taiwan University, Taipei, January 2010.
16. Colloquium, San Jose State University, November 2009.
17. Western Algebraic Geometry Seminar, UCLA, October 2009.
18. Computational Biology Group, UC Berkeley, September 2009.
19. Tropical Geometry Seminar, MSRI, September 2009.
20. Combinatorics Seminar, MIT, April 2009.
21. Homotopical Algebra with Applications to and Mathematical Physics, Sectional A.M.S. Meeting in Raleigh NC, April 2009.
22. Applications of Algebraic and Geometric Combinatorics, Sectional A.M.S. Meeting in Raleigh NC, April 2009.
23. Symplectic Geometry Seminar, Columbia University, February 2009.
24. Geometry Seminar, University of Michigan, April 2008.
25. Colloquium, Tennessee State University, March 2008.
26. Faculty Lecture Series, Williams College, February 2008.

27. Plenary Speaker, Section A.M.S. Meeting at Rutgers, October 2007.
28. Colloquium, George Washington University, November 2006.
29. Homotopy Theory of Compactified Moduli Spaces, Section A.M.S. Meeting in Storrs CT, October 2006.
30. Mishner Festival of Arts Symposium: *Visions of Higher Dimensions*, Philadelphia PA, October 2006.
31. Deformation Theory Seminar, University of Pennsylvania, October 2006.
32. Discrete and Convex Geometry, Section A.M.S. Meeting in Durham NH, April 2006.
33. Arrangements and Configuration spaces, Section A.M.S. Meeting in Durham NH, April 2006.
34. Invited speaker, Schloss Dagstuhl program on *Spatial Data*, Saarbrücken Germany, March 2006.
35. Combinatorics Seminar, University of Michigan, February 2006.
36. Low-Dimensional Algebraic Topology Seminar, Ohio State University, December 2005.
37. Algebraic Topology of Moduli Spaces, Section A.M.S. Meeting in Eugene OR, November 2005.
38. Topology Seminar, Ohio State University, October 2005.
39. Combinatorics Seminar, MIT, September 2005.
40. Young Mathematicians Conference, Plenary Speaker, Columbus OH, August 2005.
41. Geometry Seminar, Boston University, March 2005.
42. Midwest Topology Seminar, February 2005.
43. Colloquium, Calvin College, February 2005.
44. Combinatorics Seminar, MIT, November 2004.
45. Sigma Xi lectures, Williams College, October 2004.
46. Homotopy Theory in honor of William Browder, Section A.M.S. Meeting in Princeton, NJ, April 2004.
47. Topology Seminar, Brandeis University, March 2004.
48. Valley Geometry Seminar, University of Massachusetts, Amherst, October 2003.
49. Arrangements in Topology and Algebraic Geometry, Section A.M.S. Meeting in Baton Rouge LA, March 2003.

50. Homotopy Theory, Joint Mathematics Meeting in Baltimore MD, January 2003.
51. Quantum Topology, Section A.M.S. Meeting in Columbus OH, September 2001.
52. Representation Theory Seminar, Northeastern University, January 1999.
53. Geometry Seminar, Boston University, January 1999.
54. Combinatorial Topology, Joint Mathematics Meeting in San Antonio TX, January 1999.
55. Colloquium, Topology/Combinatorics Seminar, George Washington University, November 1998.
56. Colloquium, University of North Carolina, Chapel-Hill, October 1998.
57. Algebraic Topology Seminar, University of Rutgers, April 1998.
58. Homotopy Theory in honor of J. Michael Boardman, Joint Mathematics Meeting in Baltimore MD, January 1998.

TEACHING

Williams College:

Calculus I (Fall 2006)

Computational Geometry (Spring 2004, 2007, 2009).

Differential Equations (Spring 2003, 2005, 2007, 2008).

Discrete Mathematics (Fall 2002, 2003, Spring 2003, 2004, 2005, 2011).

Geometric Group Theory (Fall 2002, Spring 2008).

Knot Theory (Fall 2004).

Lessons in Go — *Asian Studies Department* (Winter 2004).

Linear Algebra (Fall 2004, 2007).

Modeling Geometric Shapes — *Art Department* (Winter 2007)

Multivariable Calculus (Fall 2008, 2010, 2011).

Mural — *Art Department* (Winter 2009)

Phylogenetics (Spring 2012)

Visualization (Winter 2012)

Ohio State University:

Computational Geometry (Spring 2006).

Shape of Nature (Spring 2002): self-designed course for first-year undergraduates, involving faculty from Physics, Statistics, Chemistry (under the *Freshman Research Seminar* award).

Honors Accelerated Calculus with Analytic Geometry (Fall 2001).

Differential Equations and their Applications (Fall 1999, 2000, Winter 2000).

Discrete Math Modeling (Spring 2000, 2001): self-designed course for upper-level undergraduates, using *Graph Theory* by D. West.

Topics in Geometry (Summer 2001): self-designed course for first and second year graduate students, using *Differential Geometry of Curves and Surfaces* by M. do Carmo.

Topics in Topology (Summer 2000, 2001): self-designed course for first and second year graduate students, using *Introduction to Knot Theory* by R. Lickorish.

Topics in Mathematics – Geometry (Spring 2000, 2001): self-designed course for in-service high school teachers, using *The Knot Book* by C. Adams.

Topics in Mathematics – Probability (Summer 2000): self-designed course for in-service high school teachers, using *The Pleasures of Counting* by T. Körner.