

University of Illinois at Chicago · Mathematics, Statistics, and Computer Science
322 Science and Engineering Offices (M/C 249)
851 S. Morgan Street · Chicago, IL 60607-7045
PHONE (312)996-3527 EMAIL jdeblois@math.uic.edu

PERSONAL INFORMATION

BIRTH DATE April 26, 1978
CITIZENSHIP United States of America
WEBPAGE www.math.uic.edu/~jdeblois

EDUCATION

B.S. (Mathematics) University of Chicago · June 2000
Ph.D. (Mathematics) University of Texas at Austin · May 2007.
ADVISOR: Alan W. Reid
THESIS: Totally geodesic surfaces in hyperbolic 3-manifolds

POSITIONS

Research Assistant Professor · University of Illinois at Chicago · August 2007 – present
Assistant Instructor · U.T. Austin · Fall 2002 – Spring 2007
Visiting Scholar · University of Illinois at Chicago · Fall 2006
Visiting Professor
Centre Bernoulli, École Polytechnique Fédérale de Lausanne · September 2005
Graduate Research Assistant · U.T. Austin
(A.W. Reid) · Fall 2006, Summers 2002 – 2005
(C. McA. Gordon) · Spring 2001
Teaching Assistant · U.T. Austin · Fall 2001 – Spring 2002

FELLOWSHIPS AND AWARDS

Mathematical Sciences Research Postdoctoral Fellowship
National Science Foundation · August 2007–present
MSRI Postdoctoral Fellowship · Mathematical Sciences Research Institute · Fall 2007
Liftoff Fellowship · Clay Mathematics Institute · Summer 2007
Frank Gerth III Dissertation Award · U.T. Austin · Spring 2007
VIGRE Fellowship · U.T. Austin · 2005 – 2006
University Preemptive Fellowship · U.T. Austin · Summer 2001
Departmental Fellowship · U.T. Austin · Fall 2000, Summer 2001
Frank Gerth III Teaching Excellence Award
U.T. Austin · For the 2002 – 2003 school year.

MATHEMATICAL WRITING

- 1 Algebraic invariants, mutation, and commensurability of link complements.
With E. Chesebro. Preprint.
- 2 Rank gradient of cyclic covers.
Submitted.
- 3 The cross curvature flow on a negatively curved solid torus.
With D. Knopf and A. Young. To appear, *Algebraic and Geometric Topology*.
- 4 Some virtually special hyperbolic 3-manifolds.
With E. Chesebro and H. Wilton. Submitted.
- 5 Volume and topology of bounded and closed hyperbolic 3-manifolds.
With P. Shalen. To appear, *Communications in Analysis and Geometry*.
- 6 Incompressible surfaces, hyperbolic volume, Heegaard genus, and homology.
With M. Culler and P. Shalen. *Comm. Anal. Geom.*, Vol. 17, no. 2, 155–185.
- 7 On the doubled tetrus.
Geometriae Dedicata, Vol. 144, 1–23.
- 8 Totally geodesic surfaces and homology.
Algebraic and Geometric Topology. Vol. 6, 1413–1428.
- 9 Surface groups are frequently faithful.
With R. Kent. *Duke Mathematical Journal*. Vol. 131, no. 2, 351–362.

TALKS

- *Virtually special 3-manifolds* · November 17, 2009
Algebra Seminar · University of Montana
- *The geometry and topology of 3-manifolds* · November 16, 2009
Colloquium · University of Montana
- *Rank gradient of cyclic covers* · October 8, 2009
Topology Seminar · University of Michigan
- *Rank gradient and the JSJ decomposition* · June 5, 2009
Workshop in Geometric Topology · Milwaukee, Wisconsin
- *Some virtually special 3-manifold groups* · February 23, 2009
Topology Seminar · University of Illinois at Chicago
- *Some virtually special 3-manifold groups* · January 22, 2009
Geometry/Topology Seminar · University of Chicago
- *Incompressible surfaces, hyperbolic volume, and homology* · June 27, 2008
Workshop in Geometric Topology · Park City, UT
- *Rank gradient of cyclic covers II* · February 13, 2008
Topology Seminar · University of Illinois at Chicago
- *Rank gradient of cyclic covers* · February 11, 2008
Topology Seminar · University of Illinois at Chicago
- *Rank gradient of covers with property τ* · September 21, 2007
Joint Postdoctoral Seminar · Mathematical Sciences Research Institute
- *Virtually fibering the doubled tetrus* · October 22, 2007
Topology Seminar · Rice University

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- *Commensurability of link complements* · November 7, 2006
Differential Geometry Seminar · University of Illinois at Urbana-Champaign
 - *Commensurability of link complements* · October 8, 2006
AMS Sectional Meeting · Salt Lake City, UT
 - *Totally geodesic surfaces in rational homology knot manifolds* · Sept. 18, 2006
Topology Seminar · University of Illinois at Chicago
 - *Commensurability vs. trace field of link complements* · September 11, 2006
Topology Seminar · University of Texas at Austin
 - *Surface groups are frequently faithful* · Fall 2005
Research Seminar · Centre Bernoulli, École Polytechnique Fédérale de Lausanne
 - *Totally geodesic surfaces and homology* · Fall 2005
Research Seminar · Centre Bernoulli, École Polytechnique Fédérale de Lausanne
 - *Surface groups are frequently faithful* · Fall 2004
Topology Seminar · University of Texas at Austin
 - *The hyperbolic Dehn surgery theorem* · Summer 2003
Qualifying examination · Topology Seminar · University of Texas at Austin
 - *Automorphisms of surfaces* · Spring 2002
Preliminary Examination · Topology Seminar · U.T. Austin
 - *Songs of splitting and systoles: an odyssey of triangular tiling groups* · Jan. 2000
(with N. Baeth, L. Powell, and K. Woods) · Joint Meetings · Washington, D.C.

TEACHING

- *Fall 2009* — M472: Group Actions on Cube Complexes
Instructor · University of Illinois at Chicago
- *Spring 2008* — M215: Calculus III
Instructor · University of Illinois at Chicago
- *Spring 2005* — M305G: Elementary Functions and Coordinate Geometry
Instructor · University of Texas at Austin
- *Fall 2004* — M305G: Elementary Functions and Coordinate Geometry
Instructor · University of Texas at Austin
- *Spring 2004* — M382D: Differential Topology
Grader · University of Texas at Austin
- *Fall 2003* — M305G: Elementary Functions and Coordinate Geometry
Instructor · University of Texas at Austin
- *Spring 2003* — M210E: Emerging Scholars Program
Instructor · University of Texas at Austin
- *Fall 2002* — M210E: Emerging Scholars Program
Instructor · University of Texas at Austin
- *Spring 2002* — M382D: Differential Topology
Grader · University of Texas at Austin
- *Fall 2001* — M427K: Differential Equations
Teaching Assistant · University of Texas at Austin

CONFERENCES ATTENDED

- Workshop in Geometric Topology · June 2009
University of Wisconsin - Milwaukee
- AMS Central Section Meeting, #1047 · March 2009
University of Illinois at Urbana-Champaign
- Workshop in Geometric Topology · June 2008
Park City, Utah
- Topics in Teichmüller Theory and Kleinian Groups · November 2007
Mathematical Sciences Research Institute · Berkeley, CA
- Program on Teichmüller Theory and Kleinian Groups · Aug.– Nov. 2007
Mathematical Sciences Research Institute · Berkeley, CA
- AMS Western Section Meeting, #1019 · October 2006
University of Utah
- Conference on 3–Manifolds and Knot Theory · May 2005
A conference in honor of the 60th birthday of Cameron Gordon · U.T. Austin
- Ahlfors Bers Colloquium · May 2005
University of Michigan
- AMS Central Section Meeting, #1001 · October 2004
Northwestern University
- The Synthetic Geometry of the Weil-Petersson Metric · May 2004
University of Utah
- Conference on the Topology of Manifolds of Dimensions 3 and 4 · May 2003
A conference in honor of the 60th birthday of Andrew Casson · U.T. Austin
- The Andrews-Curtis and the Poincaré Conjectures · April 2003
The Spring Lecture Series · University of Arkansas
- Spring Topology and Dynamics Conference · March 2002
University of Texas at Austin
- Joint Meetings · AMS Meeting #950 · January 2000
Washington D.C.

CONFERENCE CO-ORGANIZED (with N. Dunfield, C. Leininger and R. Kent)

Special Session on Hyperbolic Geometry and Teichmüller Theory · AMS Meeting #1047 · University of Illinois at Urbana-Champaign · March 27–29, 2009

REFERENCES

Peter B. Shalen, University of Illinois at Chicago
Alan W. Reid, University of Texas at Austin
Richard Canary, University of Michigan
Steven Kerckhoff, Stanford University
Marc Culler, University of Illinois at Chicago
Steven Hurder, University of Illinois at Chicago
(Concerns teaching)