

Curriculum Vita

University of Texas, Department of Mathematics
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Personal

Born February 23rd, 1976 in Dallas, Texas

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Education

University of Texas in Austin. Ph.D., May 2006. Advisor: Alan W. Reid.

University of Texas in Arlington. B.S., May 2000. (1st in class).

Appointments

Taussky–Todd instructor, Cal Tech Fall 2006–2009

University of Texas in Austin assistant instructor, Fall 2005

University of Texas in Austin teaching assistant, Fall 2000–Summer 2003

Awards and Honors

Clay Mathematics Institute *Lift-off fellowship*, Summer 2006.

UT Austin *Continuing education fellowship*, 2004–2005

UT Austin *V.I.G.R.E. fellowship*, 2003–2004

UT Austin *Departmental fellowship*, Summer 2001

UT Arlington *Continuing education scholarship*, 1999–2000

UT Arlington *Outstanding senior math major*, 2000

UT Arlington *Outstanding junior math major*, 1999

Visiting positions

Tokyo Metropolitan University, January 2006. Hosted by Yoshi Kamishima

University of Chicago, July 2005 and November 2005. Hosted by Benson Farb

University of Maryland, February–March 2005. Hosted by Richard E. Schwartz

Durham University, July 2004. Hosted by John Parker

Invited lectures and colloquia

Tokyo Metropolitan University colloquium, Tokyo, Japan (1 hour, January 2006)

Osaka City University colloquium, Osaka, Japan (1 hour, January 2006)

Wasatch Topology Conference, Park City, Utah (1 hour, December 2005)

Crystallographic groups and their generalization, IV, Oostende, Belgium (25 minutes, June 2005)

Géométrie hyperbolique complexe, Luminy, France (1 hour, July 2003)

Seminar talks

California Institute of Technology Geometry (Spring 2006).

University of Texas in Arlington GAGA (Spring 2006)

University of Texas in Arlington AGANT (Spring 2006)

Louisiana State University Geometry (Spring 2006)

Osaka City University Complex Dynamics (Spring 2006)

University of Illinois at Urbana-Champaign Group Theory (Fall 2005)

University of Chicago Topology/Geometry (Spring 2005)

University of Illinois at Chicago Topology (Spring 2005)

University of Maryland Geometry (2 talks Spring 2005)

University of Texas Algebra (2 talks Spring 2005)

Columbia University Topology (Fall 2004)

University of Texas Topology (Fall 2003, Fall 2004, Fall 2005, Spring 2006)

University of Texas Analysis (Fall 2002)

Teaching

Invited speaker for College of Natural Science TA orientation, 2003

Department of Mathematics award for undergraduate teaching, 2002

Office of Graduate Studies, *Outstanding Teaching Assistant* Nomination, 2002

Miscellaneous

Coorganizer (w/ Jeff Brock) of the conference *Tameness in Texas*, June 2004

Junior topology seminar organizer, 2003-2004

Junior Lie theory seminar organizer, 2003

Referee for *Geometriae Dedicata*

Mathematical Writing

Copies can be found at <http://www.ma.utexas.edu/users/dmcreyn/downloads.html>

In preparation/progress

- 14 (w/ R. Gornet). *The simple length spectrum is unbounded*, in progress.
- 13 (w/ B. Farb). *Arithmetic lattices in reductive groups*, in progress.
- 12 (w/ Y. Kamishima). *Symmetries of flat manifolds*, in preparation/progress.
- 11 (w/ A. W. Reid). *Locally symmetric manifolds and simple geodesics*, in preparation/progress.
- 10 *Finite subgroups of lattices and a finite cyclic property*, in preparation.
- 9 *Geodesic submanifolds of rank-1 arithmetic manifolds*, in preparation.
- 8 *Arithmetic lattices in $SU(n, 1)$* , monograph, working draft.

Published or submitted

- 7 (w. C. J. Leininger and A. W. Reid) *Length equivalent hyperbolic manifolds*, submitted.
- 6 *Constructing isospectral manifolds*, submitted.
- 5 *Arithmetic cusp shapes are dense*, submitted.
- 4 *Cusps of Hilbert modular varieties*, submitted.
- 3 *Finite subgroups of arithmetic lattices in $U(2, 1)$* , To appear in *Geom. Dedicata*.
- 2 (w/ C. J. Leininger). *Separable subgroups of mapping class groups*, to appear in *Topology Appl.*
- 1 *Peripheral separability and cusps of arithmetic hyperbolic orbifolds*. *Algebr. and Geom. Topol.* 2004 (4), 721-755.

References

- Alan W. Reid, University of Texas at Austin
- Benson Farb, University of Chicago
- Alex Lubotzky, Hebrew University
- Richard E. Schwartz, Brown University
- Bruce Palka, University of Texas (Teaching)