
Christopher J. Leininger

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University of Illinois at Urbana Champaign
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U.S. Citizen, Born Dec. 5, 1973

EDUCATION

- **The University of Texas**, Austin, TX
Ph.D. in Mathematics, May 2002. Supervisor: Alan W. Reid
- **Ball State University**, Muncie, IN
B.S. in Mathematics, May 1997

ACADEMIC POSITIONS

- **University of Illinois**, Urbana-Champaign, IL
Professor, Dept. of Math., Fall 2016–Present.
Associate Professor, Dept. of Math., Fall 2010–Fall 2016.
Assistant Professor, Dept. of Math., Fall 2005–Summer 2010.
- **Columbia University/Barnard College**, New York City, NY
Assistant Professor/NSF Postdoctoral Fellow, Dept. of Math., Fall 2002–Spring 2005.

VISITS

- **Insitut Fourier**, Grenoble, France, *Professeur Invité*, June 2018.
- **University of Warwick**, UK, *EPSRC Symposium visitor/coorganizer*, January – April 2018.
- **Mathematical Sciences Research Institute** Berkeley, CA, *Member*, Fall 2016.
- **Centro di Ricerca Matematica Ennio De Giorgi**, Pisa, Italy, June 2014.
- **Aix-Marseille Universite**, July 2013.
- **Centre de Recerca Matemàtica Barcelona**, Spain, September/October 2012.
- **Park City Math Institute**, Utah, July 2011, July 2012.
- **Oberwolfach**, Germany, May 2011, June 2011, June 2015, December 2016.
- **Hausdorff Research Institute for Mathematics**, Bonn, Germany, May/June 2010.
- **Université Paul Cézanne**, Marseille, France, *Professeur Invité*, June 2008.
- **Mathematical Sciences Research Institute** Berkeley, CA, *Member*, Fall 2007.
- **Max-Planck-Institut für Mathematik**, Bonn, Germany, July 2006.
- **University of Chicago**, Chicago, IL, May/June, 2006.

GRANTS & AWARDS

- Individual N.S.F. Grants D.M.S.-060388, 0905748, 1207184, 1510034: 5/2006–5/2018.
- *Lois M. Lackner Scholar*, Dept. of Math., UIUC, 2011–2013.
- *Campus Research Board*, UIUC, Summer 2010, spring 2007, Fall 2005.
- *Helen Corley Petit Scholar*, College of LAS, UIUC, 2010–2011.

- *N. Tenney Peck Teaching Award in Mathematics*, Dept. of Math., UIUC, 2008.
- *Center for Advanced Study Fellowship*, UIUC, Fall 2007.
- *University of Texas Graduate School Outstanding Dissertation Award*, Spring 2003
- *NSF Mathematical Sciences Postdoctoral Research Fellowship*,
Fall 2002–Summer 2005. Sponsor: Walter D. Neumann
- *C.M.I. Liftoff Mathematician*, Summer 2002
- *University Continuing Fellowship*, UT, Austin, Fall 2000 - Spring 2001
- *Departmental Fellowships*, UT, Austin, Spring 1999 and Summer 1998

Publication and preprints

(All papers/preprints available at <http://www.math.uiuc.edu/~clein/papers.html>)

- 52.** (w/ M. Duchin, V. Erlandsson, C. Sadanand), *You can hear the shape of a billiard table: Symbolic dynamics and rigidity for flat surfaces*, preprint.
- 51.** (w/ A. Reid) *Pseudo-Anosov homeomorphisms not arising from branched covers*, preprint.
- 50.** (w/ J. Brock, B. Modami, and K. Rafi) *Limit sets of Weil-Petersson geodesics with nonminimal ending laminations*, to appear in *J. Topol. Anal.*
- 49.** (w/ J. Brock, B. Modami, and K. Rafi) *Limit sets of Weil-Petersson geodesics*, IMRN, published online <https://doi.org/10.1093/imrn/rny002>.
- 48.** (w/ K. Bou-Rabee) *Quotients of mapping class groups from $Out(F_n)$* , to appear in *Proc. Amer. Math. Soc.*
- 47.** (w/ M. Bestvina, K. Bromberg, and A. Kent) *Undistorted purely pseudo-Anosov groups*, to appear in *J. Reine Agnew Math.*
- 46.** (w/ J. Brock, B. Modami, and K. Rafi) *Limit sets of Teichmüller geodesics with minimal non-uniquely ergodic vertical foliations*, *J. Reine Agnew Math.*, published online <https://doi.org/10.1515/crelle-2017-0024>.
- 45.** (w/ G. Lakeland) *Strict contractions and exotic $SO_0(d, 1)$ quotients*, *J. Lond. Math. Soc.* (2) 96 (2017), no. 3, 642–662.
- 44.** (w/ A. Lenzen and K. Rafi), *Limit sets of Teichmüller geodesics with minimal non-uniquely ergodic vertical foliations*, *J. Reine Agnew Math.*, published online <https://doi.org/10.1515/crelle-2015-0040>.
- 43.** (w/ A. Bankovic), *Marked length spectral rigidity for flat metrics*, accepted in *Trans. Amer. Math. Soc.* 370 (2018), no. 3, 1867–1884.
- 42.** (w/ S. Dowdall and I. Kapovich), *Endomorphisms, train track maps, and fully irreducible monodromies*, *Groups Geom. Dyn.* 11 (2017), no. 4, 1179–1200.
- 41.** (w/ F. Gültepe), *An arc graph distance formula for the flip graph*, *Proc. Amer. Math. Soc.* 145 (2017), 3179–3184
- 40.** (w/ S. Dowdall and I. Kapovich) *McMullen polynomials and Lipschitz flows for free-by-cyclic groups*, *J. Eur. Math. Soc. (JEMS)* 19 (2017), no. 11, 3253–3353. .
- 39.** (w/ J. Aramayona) *Exhausting curve complexes by finite rigid sets*, *Pacific J. Math.* 282 (2016), no. 2, 257–283.
- 38.** (w/ I. Agol and D. Margalit) *Pseudo-Anosov stretch factors and homology of 3-manifolds*, *J. Lond. Math. Soc.* (2) 93 (2016), no. 3, 664–682.
- 37.** (w/ W. Jeon, I. Kapovich, K. Ohshika), *Conical limit points and Cannon-Thurston maps*, *Conform. Geom. Dyn.* 20 (2016), 58–80.
- 36.** (w/ S. Dowdall and I. Kapovich) *Dynamics on free-by-cyclic groups*, *Geometry & Topology* 19 (2015) 2801–2899.

- 35.** (w/ S. Dowdall and I. Kapovich), *Unbounded asymmetry of stretch factors*, C. R. Math. Acad. Sci. Paris 352 (2014), no. 11, 885–887.
- 34.** (w/ M. Clay and D. Margalit) *Abstract commensurators of right-angled Artin groups and mapping class groups*, Math. Res. Lett. 21 (2014), no. 3, 461–467
- 33.** (w/ G. Lakeland) *Systols and Dehn surgery for hyperbolic 3-manifolds*, Alg.& Geom. Top. 14 (2014), no. 3, 1441–1460.
- 32.** (w/ S. Dowdall and R.P. Kent IV) *Pseudo-Anosov subgroups of fibered 3-manifold groups*, Groups Geom. Dyn. 8 (2014), no. 4, 1247–1282.
- 31.** (w/ S. Schleimer) *Hyperbolic spaces in Teichmüller spaces*, J. Eur. Math. Soc. (JEMS) 16 (2014), no. 12, 2669–2692.
- 30.** (w/ R.P. Kent IV) *A geometric criterion to be pseudo-Anosov*, Michigan Math. J, 63 (2014), no. 2, 227–251.
- 29.** (w/ V. Gadre, E. Hironaka, and R.P. Kent IV) *Lipschitz constants to curve complexes*, Math. Res. Lett. 20 (2013), no. 4, 647–656.
- 28.** (w/ J. Aramayona) *Finite rigid sets in curve complexes*, J. Topol. Anal. 5 (2013), no. 2, 183–203.
- 27.** (w/ D. Margalit) *On the number and location of short geodesics in moduli space*, Journal of Topology, no. 6 (1), (2013) 30–48.
- 26.** (w/ M. Clay and J. Mangahas) *The geometry of right angled Artin subgroups of mapping class groups*, Groups Geom. Dyn. 6 (2012), no. 2, 249–278
- 25.** (w/ B. Farb and D. Margalit) *Small dilatation pseudo-Anosov homeomorphisms and 3-manifolds*, Adv. Math. 228 (2011), no. 3, 1466–1502.
- 24.** (w/ M. Mj and S. Schleimer) *The universal Cannon–Thurston map and the boundary of the curve complex*, Comment. Math. Helv. 86 (2011), no. 4, 769–816.
- 23.** (w/ A. Reid and D. Long) *Commensurators of non-free finitely generated Kleinian groups*, Algebr. Geom. Topol. 11 (2011) 605–624.
- 22.** (w/ M. Duchin and K. Rafi) *Length spectra and degeneration of flat metrics*, Invent. Math., 182 (2010) No. 2, 231–277.
- 21.** (w/ D. Margalit) *Two-generator subgroups of the pure braid group*, Geom. Dedicata 147 (2010) 107–113.
- 20.** (w/ R. P. Kent IV) *A fake Schottky group in $Mod(S)$* , In the Tradition of Ahlfors–Bers, V, Contemporary Math. 510, AMS, 2010, 185–196.
- 19.** *Accidental parabolics in the mapping class group*, Proc. Amer. Math. Soc. 137 (2009), no. 3, 1153–1160.
- 18.** (w/ R. P. Kent IV and S. Schleimer) *Trees and convex cocompactness*, (Crelle) J. Reine Angew Math. 637 (2009), 1–21.
- 17.** (w/ S. Schleimer) *Connectivity of the space of ending laminations*, Duke Math. J. 150 (2009) no. 3, 533–575.
- 16.** (w/ J. Aramayona and J. Souto) *Injections of mapping class groups*, Geometry & Topology 13 (2009) 2523–2541.
- 15.** (w/ R. P. Kent IV) *Uniform convergence in the mapping class group*, Ergodic Theory and Dynam. Systems **28**, (2008), 1177–1195.
- 14.** (w/ B. Farb and D. Margalit) *The lower central series and pseudo-Anosov dilatations*, Amer. J. Math. **130**, (2008), no. 3, 799–827.
- 13.** (w/ R. P. Kent IV) *Shadows of mapping class groups: capturing convex cocompactness*, Geom. Funct. Anal. 18 (2008), 1270–1325.
- 12.** (w/ D. B. McReynolds, W. D. Neumann, and A. W. Reid) *Length and eigenvalue equivalence*, Int. Math. Res. Not. IMRN (2007), no. 24, Art. ID rnm135, 24 pp.

11. (w/ R. P. Kent IV) *Subgroups of the mapping class group from the geometrical viewpoint*, In the tradition of Ahlfors–Bers IV, Contemp. Math., 432, Amer. Math. Soc. Providence, RI, 2007.
10. (w/ R. D. Canary) *Kleinian groups with discrete length spectrum*, Bull. London Math. Soc. **39** (2007), 189–193.
9. (w/ D. B. McReynolds) *Separable subgroups of the mapping class group*, Topology Appl. **154**, (2007), no 1, 1–10.
8. (w/ D. Margalit) *Abstract commensurators of braid groups*, J. Algebra **299**, (2006), no. 2, 447–455.
7. (w/ A. W. Reid) *A combination theorem for Veech subgroups of the mapping class group*, Geom. Funct. Anal. **16**, (2006), 403–436.
6. *Small curvature surfaces in hyperbolic 3-manifolds*, J. Knot Theory Ramifications **15**, (2006), 379–411.
5. *On groups generated by two positive multi-twists: Teichmüller curves and Lehmer’s number*, Geom. Topol., **8**, (2004), 1301–1359.
4. *Equivalent curves in surfaces*, Geom. Dedicata **102**, (2003), 151–177.
3. (w/ A. W. Reid) *The co-rank conjecture for 3-manifold groups*, Algebr. Geom. Topol. **2**, (2002), 37–50.
2. *Compressing totally geodesic surfaces*, Topology Appl. **118**, (2002), 309–328.
1. *Surgeries on one component of the Whitehead link are virtually fibered*, Topology **41**, (2002), 307–320.

INVITED PRESENTATIONS

- *Workshop on Geometry of Teichmüller Space*, Fields Institute, Toronto, Canada (scheduled August 2018).
- *Conference in honor of Mark Feighn’s 60th birthday*, Midway, Utah (scheduled August 2018)
- *Summer School on Teichmüller dynamics, mapping class groups, and applications*, Institut Fourier, Grenoble, France, (3-4 lecture mini-course, scheduled June 2018).
- *Geometry of outer spaces and outer automorphism groups*, U. Warwick, UK, April 2018.
- *Topology Day*, University at Buffalo, NY, September 2017.
- *GEAR retreat*, Stanford U, Stanford, CA, August 2017.
- *Group actions and cohomology in non-positive curvature*, Isaac Newton Institute, Cambridge, UK, June 2017.
- *Shanks conference*, Vanderbilt, TN, May 2017.
- *Teichmüller space, polygonal billiards, and interval exchanges*, CIRM, Luminy, France February 2017.
- *Geometry of mapping class groups and $Out(F_n)$* , MSRI, Berkeley, CA October 2016.
- *Topology and Dynamics of Moduli Spaces*, IMS, Singapore August 2016.
- *Advanced School and Workshop on Geometric Group Theory and Low-Dimensional Topology: Recent Connections and Advances*, ICTP, Trieste, Italy May 2016.
- *Effective and Algorithmic Methods in Hyperbolic Geometry and Free Groups*, ICERM, Brown University, Providence, RI May 2016.
- *Integrated Conference in Geometry, Dynamics, and Topology*, Eastern Illinois University, Charleston, IL. April 2016.
- *Advanced school and workshop on geometry of discrete actions*, Trieste, Italy. September, 2015
- *New perspectives on the interplay between discrete groups in low-dimensional topology and arithmetic lattices*, Oberwolfach, Germany. June 2015
- *Low-dimensional topology workshop for Menasco’s 60th Birthday*, SUNY Buffalo, NY. May, 2015
- *Tech Topology Conference*, Georgia Tech, December 2014.

- *Workshop on Teichmüller theory and surfaces in 3-manifolds*, Centro De Giorgi, Pisa, Italy, June 2014.
- *Georgia Topology Conference*, Athens, GA, May 2014
- *Bloomington Geometry Conference*, Bloomington, IN, April 2014
- *Redbud Topology conference*, Norman, OK, April 2014
- *Network Retreat of the GEAR Research Network in the Mathematical Sciences*, Univ. Maryland, March 2014.
- *Six Crash Course on Mapping Class Groups*, (one “crash course”), Joint Meetings of AMS/MAA, Baltimore, MD, January 2014.
- *Geometric Topology in New York*, Columbia, August 2013.
- *Growth and Mahler measures in geometry and topology*, Institute Mittag-Leffler, Sweden, July 2013.
- *The Topology of 3-dimensional Manifolds*, CRM, Montreal, May 2013
- *Mapping class groups and Categorification*, Banff, April 2013
- *Automorphisms of free groups: Algorithms, Geometry and Dynamics*, (2 lectures) Barcelona, Spain, September 2012.
- *Geometric structures on manifolds*, Chicago, IL, June 2012
- *Geometry and Rigidity in dimensions 2, 3, and 4*, Luminy, France, May 2012.
- *Geometry, Dynamics and Topology Day*, EIU, Charleston, IL, April 2012.
- *AMS Section meeting 1081*, Invited Address, Lawrence, KS, March 2012.
- *Texas Geometry and Topology Conference*, October, 2011.
- *Undergraduate Mathematics Symposium*, U. Illinois, Chicago, IL, October 2011.
- *William Rowan Hamilton Geometry and Topology Workshop*, Hamilton Mathematics Institute in Trinity College Dublin, Ireland, September 2011.
- *Undergraduate summer school on Riemann surfaces*, Park City Math Institute, Park City, UT July 2011 (3 week course)
- *Arithmetic Groups vs. Mapping Class Groups: Similarities, Analogies and Differences*, Oberwolfach, Germany, June 2011.
- *Geometry, Topology and Dynamics of Character Varieties*, Institute of Mathematical Sciences, National University of Singapore (tutorial lecture series), July 2010.
- *Workshop on Subgroups of the Mapping Class Group*, Hausdorff Institute of Mathematics, Bonn, Germany, May 2010.
- *Workshop on pseudo-Anosovs with small dilatation*, Madison, WI, April 2010.
- *Geometry and Dynamics in Surfaces and 3-manifolds II*, Park City, UT, August 2009 (3 lectures).
- *Dynamics and Geometry of Teichmüller space*, C.I.R.M. Luminy, Marseille, France, June 2009 (3 workshop lectures and plenary lecture).
- *Spring Topology and Dynamical Systems Conference*, Gainesville, FL, March 2009 (20 min talk).
- *N+4th Southern California Topology Conference*, Pasadena, CA, January 2009.
- *Great Lakes Geometry Conference*, Ann Arbor, MI, October 2008.
- *International Workshop and Conference on Surface Mapping Class Groups and Related Topics*, NEHU, Shillong, Meghalaya, India, June 2008. (4 talks)
- *Alhfors–Bers Colloquium: Plenary speaker*, Newark, NJ, May 2008.
- *Geometric Groups on the Gulf*, Pensacola, FL, March 2008.
- *Spring Topology and Dynamical Systems Conference*, Milwaukee, WI. (20 min talk), March 2008.
- *Topics in Teichmüller theory and Kleinian groups*, MSRI, Berkeley, CA, November 2007.
- *Hyperbolic structures on 3-manifolds and the large scale geometry of Teichmüller space*, Conference at the University of Warwick, England, July 2007.
- *Cornell Topology Festival*, Cornell U., Ithaca, NY, May 2007.(2 talks)

- *Geometry and Dynamics in Surfaces and 3-manifolds*, Brown U., Providence RI, May 2007.
- *Outre-espace et Espace de Teichmüller*, C.I.R.M. Luminy, Marseille, France, February 2007.
- *Geometry, Topology, and Their Interaction*, a conference to honor the 35th anniversary of the Farrell-Jones collaboration, Morelia Mexico, January 2007.
- *William Rowan Hamilton Geometry and Topology Workshop*, Hamilton Mathematics Institute in Trinity College Dublin, Ireland, September 2006.
- *Workshop in Geometry and Group Theory*, Max-Planck-Institut für Mathematik, Bonn, Germany, July 2006.
- *XXth Nevanlinna Colloquium*, E.P.F. Lausanne, Switzerland, August 2005.
- *Rational Billiards and Flows on Moduli Space*, U.I.C., Chicago, IL, June 2005.
- *Wasatch Topology Conference*, Park City, UT, May 2005.
- *Alhfors–Bers Colloquium: Workshop speaker*, Ann Arbor, MI, May 2005.
- *Conference in Hyperbolic Geometry & Geometric Analysis*, Wesleyan U., Middletown, CT, October 2004.
- *Conference on Combinatorial Topology in Mapping Class Groups*, U. of Chicago, Chicago, IL, April 2004.
- *Spring Topology and Dynamical Systems Conference*, Morelia, Mexico, March 2001. (20 min. talk)
- *AMS Meeting Special Sessions: Geometric Group Theory*, Section **1132**, Buffalo, NY, September 2017; *Low-dimensional Topology and Group Theory*, Sectional **1098**, Baltimore, MD, March 2014; *Geometric Topology in Low Dimensions*, Sectional **1094**, Wash. U, St. Louis, MO, October 2013; *Geometric Aspect of Topology and Group Theory*, Sectional **1093**, Temple U, Philadelphia, PA; Joint meetings, Boston, MA, January 2011; *Combinatorial and Geometric Group Theory and Geometric Topology*, Sectional **1025**, Miami U., Oxford, OH March 2007; *Teichmüller Theory and Hyperbolic Geometry*, Sectional **1021**, Storrs, CT October 2006; *Low Dimensional Topology and Geometry*, Sectional **1019**, Salt Lake City, UT October 2006; *Mahler Measure and Heights*, **112th** National Meeting, San Antonio, TX, January 2006; *Low Dimensional topology and Kleinian groups*, Sectional **1001**, Evanston, IL, October 2004; *Algebraic Geometry and Topology*, Sectional **994** Tallahassee, FL, March 2004; *Geometry and Topology*, Sectional **981**, Salt Lake City, UT, October 2002; *Hyperbolic Manifolds and Discrete Groups*, Sectional **974**, Ann Arbor, MI, March 2002.
- SEMINARS: Ball State; Bristol; Brown; Caltech; Cambridge U; Columbia; Cornell; CRM (Barcelona, Spain); CUNY; Florida State; Indiana U; Inst. of Math. Polish Acad. Sciences (Warsaw, Poland); Karlsruhe (Germany); Lafayette College; Marseille (France); MSRI; Michigan State; Northwestern; NUI, Galway (Ireland); Purdue U; Ohio State; Oklahoma State U./Oklahoma U.; Oxford; Princeton; Rice; Rutgers, New Brunswick; Stanford; SUNY Stony Brook; SUNY Buffalo; Toulouse (France); Universidad Autonoma de Madrid (Spain); U Arkansas, U. Bristol; U Chicago; UC, Santa Barbara; U Georgia; U. Glasgow; U Illinois, Chicago; U Illinois, Urbana-Champaign; U Maryland; U Michigan; U Minnesota; U Oxford; U Texas; U Toronto; U Utah; Yale; U Warwick; U Washington; Vanderbilt U, Nashville; Walailak, U (Thailand).
- COLLOQUIA: Boston C; CCNY; Chiang-Mai U; Eastern Illinois U; Florida State U; Indiana U; Louisiana State U; Rice; Temple U; U Arkansas; U Illinois, Urbana-Champaign; U Iowa; U Minnesota; U Utah; Vanderbilt (scheduled).

TEACHING

(* indicates appearance on University's *List of teachers ranked as excellent by their students*)

- U.I.U.C.:
 - Fall 2017: MATH 241H*, Calculus III; MATH 417*, Intro Abstract Algebra.
 - Spring 2017: MATH 231*, Calculus II; MATH 595*, Topics in Geometry/Topology.

- Spring 2016: MATH 417*, Intro Abstract Algebra; MATH 595, Topics in Geometry/Topology.
- Fall 2015: MATH 417*, Introduction to Abstract Algebra.
- Spring 2015: MATH 525*, Algebraic Topology I.
- Fall 2014: MATH 241*, Calculus III, (two sections, 538 students).
- Spring 2014: No teaching.
- Fall 2013: MATH 241, Calculus III, (two sections, 460 students).
- Spring 2013: MATH 241, Calculus III, (two sections, 480 students).
- Fall 2011: MATH 231,249, Honors Calculus II; MATH 595*, Topics course in Geometry Topology.
- Spring 2011: MATH 428*, Honors topics, Knot theory; MATH 231*, 249, Honors Calculus II.
- Fall 2010: MATH 427*, Honors Abstract Algebra.
- Spring 2010: MATH 519*, Differentiable Manifolds II.
- Fall 2009: MATH 221, Calculus I; MATH 595, Mapping class groups and curve complexes.
- Spring 2009: MATH 425, Honors Advanced Analysis; MATH 219, Differentiable Manifolds II.
- Fall 2008: MATH 218, Differentiable Manifolds I.
- Spring 2008: MATH 231, 249, Honors Calculus II; MATH 595*, Differential Geometry II.
- Spring 2007: MATH 231*, 249, Honors Calculus II.
- Fall 2006: MATH 520, Differentiable Manifolds; MATH 415, Linear Algebra;
- Spring 2006: MATH 230*, Honors Calculus II.
- Fall 2005: MATH 243, Calculus III+.
- Columbia/Barnard:
 - Fall 2004: Groups and Symmetry
 - Fall 2003: Algebraic Topology I
 - Spring 2003: Calculus II
 - Fall 2002: Calculus III.
- U.T.–Pre-calculus/Calculus, Fall 2001.

SUPERVISION and MENTORING

- POSTDOCS: I have served as mentor/co-mentor for the following postdocs, Spencer Dowdall (NSF postdoc, 2011–2015, tt at Vanderbilt), Grant Lakeland (2012-2014, tt at EIU), Babak Modami (2013–2015, pd at Yale), Funda Gultepe (2013–2017), Jenya Sapir (2014–2017).
- GRADUATE STUDENTS: I have supervised the following seven graduate students to completion of their Ph.D degree: Chia-yen Tsai (5/2010) and Pradthana Jaipong (5/2011), Rasimate Maungchang (5/2013), Anja Bankovic (8/2013), and Ser-Wei Fu (5/2014), Witsarut Pho-On (2017), Caglar Uyanik (2017, co-supervised w/ I. Kapovich). I am currently supervising three more: Sarah Mousley, Marissa Loving, and Shixuan Li. In addition I have supervised numerous reading courses and reading seminars with graduate students and postdocs.

MISCELLANEOUS

- CO-ORGANIZER: Warwick EPSCR Symposium 2017-2018; GGD Day, Indiana U, 2017; Special Session on *Hyperbolic Geometry and Teichmüller Theory* at the Iberoamerican Congress, Valladolid, Spain; *Young Geometric Group Theory Workshop*, Karlsruhe, Germany 2016 (Scientific committee); *Geometry, Groups, and Dynamics Day*, Purdue, 2015; *Workshop and conference on mapping class groups and $Out(F_N)$* , Austin, TX 2015; AMS Special Session on *Geometric Group Theory and Topology*, March 2015 meeting 1109; *GEAR Retreat*, UIUC, August 2012; AMS Special Session on *Geometric topology and group theory*, March 2012 meeting 1081; AMS Special Session on *Hyperbolic geometry and Teichmüller theory*, March 2004 meeting 1047; Geometric-topology seminar, Columbia U., 2004–2005 academic year; *Braids, Links, and Mapping Class Groups*, a conference in honor of Joan Birman, Spring 2005; Seminars at UIUC continuously since 2006 (Differential

Geometry; Geometry; Geometry, Groups, and Dynamics/GEAR).

- REFEREE WORK: *Annales de L'Institut Fourier*, *Algebr. Geom. Topol.*, *Comm. Anal. Geom.*, *Duke Math J*, *Experiment. Math.*, *Geom. Dedicata*, *Geom. Funct. Anal.*, *Geometry & Topology*, *Israel J. Math.*, *JRMS*, *Math. Ann.*, *Mathematica Scandinavica*, *Math. Z.*, *NSF and NSA*(grant app. reviewer), *NSF panalist*, *Pacific J. Math.*, *Topology Appl*, *Trans. Amer. Math. Soc.*, *J. London Math. Soc.*, and more.
- SELECTED COMMITTEES: *AMS-Simons Travel Grants Committee*, April 2015–January 2018; *University of Illinois Campus Research Board*, August 2017–present; Promotion and Tenure Committee (2017–2019); Executive Committee Dept. of Math. UIUC (2012–2014); Colloquium Committee (Chair, 2009–2011); Teaching Awards Committee (Chair, 2008–2009).