

Harrison Bray

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Positions

Aug 2022–present	Assistant Professor. <i>George Mason University.</i> Fairfax, VA.
Aug 2020–May 2022	Term Assistant Professor. <i>George Mason University.</i> Fairfax, VA.
Aug 2020–May 2022	Director of Outreach for the Mason Experimental Geometry Lab. <i>George Mason University.</i> Fairfax, VA.
Sep 2016–May 2020	Visiting Assistant Professor. <i>University of Michigan.</i> Ann Arbor, MI.
Sep 2019–May 2020	Parekh Family Fellow. <i>University of Michigan.</i> Ann Arbor, MI.
Sep 2016–Aug 2018	Research Training Grant (RTG) Postdoctoral Fellow. <i>University of Michigan.</i> Ann Arbor, MI.

Education

PhD, 2016	Tufts University. <i>Graduate School of the Arts and Sciences.</i> Medford, MA. Mathematics. Advisor: Boris Hasselblatt
MS, 2016	Tufts University. <i>Graduate School of the Arts and Sciences.</i> Medford, MA. Mathematics
BA, 2011	Hamilton College. <i>School of Arts and Sciences.</i> Clinton, NY. Major: Mathematics. Minor: Psychology

Research Interests

My research interests are in geometry, topology, and dynamical systems. More specifically, I am interested in geodesic flows, geometric structures on manifolds, convex projective structures, Hilbert geometries, Patterson-Sullivan theory, ergodic theory, thermodynamic formalism, symbolic dynamics, (nonuniformly) hyperbolic dynamical systems, and (rel) hyperbolic spaces and groups.

Preprints and Publications

- 2023 H Bray, R Canary, and L-Y Kao. *Pressure metrics for deformation spaces of quasifuchsian groups with parabolics.* (2023). To appear in **Algebraic and Geometric Topology**.
- 2023 H Bray, R Canary, L-Y Kao, and G Martone. *Pressure metrics for cusped Hitchin components.* (2023). **Preprint.** <https://arxiv.org/abs/2111.07493>
- 2023 H Bray and G Tiozzo. *A global shadow lemma and logarithm law for geometrically finite Hilbert geometries.* (2023). **Preprint.** <https://arxiv.org/abs/2111.04618>

- 2022 H Bray, R Canary, L-Y Kao, and G Martone. *Counting, equidistribution and entropy gaps at infinity with applications to cusped Hitchin representations*. (2022). **J. Reine Angew. Math. (Crelle's Journal)**. Vol 791: Jan-51.
- 2021 H Bray and D Constantine. *Entropy rigidity for finite volume strictly convex projective manifolds*. (2021). **Geometrie Dedicata**. Vol 214: 543-557.
- 2021 H Bray, D Davis, K Lindsey, and C Wu. *The Shape of Thurston's Master Teapot*. (2021). **Advances in Mathematics**. Vol 377: 107481.
- 2020 H Bray. *Ergodicity of Bowen-Margulis measure for the Benoist 3-manifolds*. (2020). **Journal of Modern Dynamics**. Vol 16: (0) 305-329.
- 2020 H Bray. *Geodesic flow of nonstrictly convex Hilbert geometries*. (2020). **Annales de l'Institut Fourier**. Vol 70: (4) 1563-1593.
- 2019 I Adeboye, H Bray, and D Constantine. *Entropy rigidity and Hilbert volume*. (2019). **Discrete Contin. Dyn. Syst. Ser. A**. Vol 39: (4) 1731-1744.

Grants and Awards

- 2018 – 2022 **AMS Simons Research Travel Grant**. *American Mathematical Society*. (\$4,000)
- Jun. 2019 **LG&TBQ: a conference celebrating LGBTQ+ mathematicians in geometry, topology, and dynamical systems**. *National Science Foundation*. (\$40,000)
- Jun. 2019 **University of Michigan College of Literature, Science, and the Arts Mini-Grant**. *University of Michigan College of Literature, Science, and the Arts*. (\$2,500)
- Apr. 2019 **The Frederick Gehring Award for Postdoctoral Excellence**. *The University of Michigan Mathematics Department*.
- Aug. 2016 **GEAR Graduate Intern Travel Grant**. *Geometric Structures and Representation Varieties (GEAR) Network*. (\$3,100)
- Jan. 2016 **AMS Graduate Student Travel Grant**. *American Science Foundation*.
- May – Dec. 2015 **Graduate Institute for Teaching Fellowship**. *Tufts University Graduate School of Arts and Sciences*.
- Oct. 2015 **Distinguished Teaching Prize**. *Tufts University Department of Mathematics*.
- Apr. 2015 **The Robert P. Guertin Graduate Student Leadership Award**. *Tufts University Graduate School of Arts and Sciences*.
- 2012 – 2014 **Tufts GSAS Conference Travel Grant**. *Tufts University Graduate School of Arts and Sciences*.
- Apr. 2016 **Outstanding Academic Scholarship Nominee**. *Tufts University Graduate School of Arts and Sciences*. (Finalist)

Mentoring and Advising

- Fall 2022 – Spring 2023 **Director**. *Mason Experimental Geometry Lab*.
Supervised a management team of 6 graduate students and oversaw outreach operations led by a doctoral student and a team of 2 undergraduates and 1 MS student.

Spring 2023	<p>Mason Experimental Geometry Lab (MEGL) Project Mentor. <i>Hyperbolic Crochet.</i> Nguphuong Au, Merold Saffa, Aidan Self, Sydney Thu (undergraduates, George Mason University).</p> <p>Co-Mentors: Madeline Horton (graduate student, George Mason University)</p>
Fall 2020 – Fall 2022	<p>Supervisor. <i>George Mason Learning Assistant Program.</i></p> <p>Mentored 11 different undergraduate learning assistants (LAs) in my active learning courses over five semesters, with some LAs working with me for up to three semesters. On average, I supervised $14/5=2.8$ LAs per semester.</p>
Fall 2020 – Spring 2022	<p>Director of Outreach. <i>Mason Experimental Geometry Lab.</i></p> <p>Supervised 4 undergraduates and 2 graduate interns in outreach design and facilitation, including extensive training.</p>
Summer 2020	<p>Advisor. <i>University of Michigan Mathematics Department first year honors advising.</i></p>
Winter 2020	<p>Lab of Geometry at Michigan (LoGM) Project Mentor. <i>Entropy degeneration of ideal projective pants.</i> Marianne DeBrito, Andrew Nguyen, Marisa O’Gara (undergraduates, University of Michigan).</p> <p>Preprint authored by DeBrito, Nguyen, and O’Gara submitted for publication. Co-Mentors: Giuseppe Martone (postdoc, University of Michigan) and Mitul Islam (graduate student, University of Michigan)</p>
Fall 2019	<p>Lab of Geometry at Michigan (LoGM) Project Mentor. <i>Growth rates of tent maps.</i> Robert Buckley, Grace O’Brien, Zoe Zhou (undergraduates, University of Michigan).</p> <p>Preprint authored by Buckley, Chen, O’Brien, and Zhou submitted for publication. Data published in DeepBlue Data. Co-Mentors: Samuel Hansen (mathematics and statistics librarian, University of Michigan)</p>
Fall 2018	<p>Lab of Geometry at Michigan (LoGM) Project Mentor. <i>3d printing nonstrictly convex projective structures.</i> Steven Schaefer, Rudra Ranganathan, Hanissa Shamsuddin (undergraduates, University of Michigan).</p> <p>Co-Mentors: Samantha Pinella and Robert Walker (graduate students, University of Michigan)</p>
Summer 2017	<p>Michigan Summer REU Project Mentor. <i>Random walks on the fundamental group of the once punctured torus.</i> Jennifer Jones-Baro (undergraduate, Centro de Investigación en Matemáticas) and Adam Holeman (masters student, University of Montana).</p> <p>Co-Mentors: Caleb Ashley (postdoc, University of Michigan)</p>

Service and Leadership

Leadership

Sep. 2022 – Aug. 2023	Director. <i>Mason Experimental Geometry Lab (MEGL).</i>
Sep. 2020 – Aug. 2022	Director of Outreach. <i>Mason Experimental Geometry Lab (MEGL).</i>
Aug. 2020	Assistant to the organizers. <i>University of Michigan.</i> Inquiry Based Learning Workshop.
Jul. 2017 – May 2020	Director. <i>Lab of Geometry at Michigan (LoGM).</i>

- Jun. – Jul. 2017 **Assistant to the organizers.** *Mathematical Research Community Workshop on Dynamical Systems: Smooth, Symbolic, and Measurable.*
- Sep. 2014 – May 2016 **President.** *Tufts University Student Chapter of the Association for Women in Math (AWM).*
Organized outreach activities at local high schools, panel discussions with women in mathematics from the greater Boston area, coffee and donuts meet-ups with female guest seminar speakers, and regular group meetings to create a community centered around encouraging the participation of underrepresented genders in mathematics.
- Sep. 2013 – Aug. 2014 **Vice-President, Co-founder.** *Tufts University Student Chapter of the Association for Women in Math (AWM).*
- Sep. 2012 – Aug. 2013 **Second Year Class Representative.** *Tufts University Org. of Graduate Students in Mathematics.*

Organizational Work

- Spring 2022 – present **Co-Organizer.** *George Mason University.* Geometry Seminar (MMA: metrics, measures, and algorithms).
- Jan. – Apr. 2020 **Co-Organizer.** *University of Michigan.* Inquiry Based Learning Lunch.
- 16 Jan. 2020 **Co-Organizer.** *Joint Mathematics Meetings.* So you're going to be a postdoc, now what? A Mathematical Association of America (MAA) Panel.
- 10 – 14 Jun. 2019 **Co-Organizer.** *University of Michigan.* LG&TBQ: a conference celebrating the work of diverse mathematicians in geometry, topology, and dynamics.
- Sep. 2014 – Apr. 2016 **Organizer.** *Tufts University.* Dynamics Seminar.
- May 2014 **Co-Organizer.** *Research in Pairs.* Joint with Mickaël Crampon.

Committee Work

- May 2022 **Hiring Committee Member.** *George Mason University.*
- Apr. 2020 **Dissertation Committee Member.** *University of Michigan.* Doctoral candidate Samantha Pinella, advised by Ralf Spatzier.

Professional Service

- 1 Feb. 2023 – 31 Jan. 2026 **Mathematics Research Communities Advisory Board.** *American Mathematical Society.*
- Feb. 2023 **Math department representative.** *College of Science User Group Interviews.*
With a team of math faculty, discussed space allocation with College of Science and advocated for the needs of mathematics department and the Mason Experimental Geometry Lab.
- 6 Jan. 2023 **Recruiter and GMU Representative.** *Joint Mathematics Meetings Graduate Fair.*
Advertised the George Mason mathematics graduate program to prospective students.
- Spring 2023 **Mentor.** *George Mason Department of Mathematical Sciences.* Mentored and trained new faculty member and Mason Experimental Geometry Lab (MEGL) outreach director Rosenberg Toala.
- 21 – 22 May 2021 **Co-Facilitator.** *DC-MD-VA Communities for Mathematics Inquiry in Teaching (COMMIT) Network.* Workshop on Standards Based Grading and Active Learning.
- 2 Apr. 2021 **Co-Facilitator.** *George Mason University.* Active Learning Discussion Series: on Equity in the Classroom.

16 Jan. 2019 **Panelist.** *Joint Mathematics Meetings.* Association for Women in Mathematics Panel: Promoting Inclusion in Stem.

Community Outreach

3 Dec. 2022 **Activity Facilitator.** *Mason Early Identification STEM Fusion program.* Making Mathematics Meaningful.
Facilitated the "Your Teachers are Lying to You" activity for approximately 30 prospective undergraduates in grades 8-12.

Sep. 2020 **Director of Outreach.** *Mason Experimental Geometry Lab (MEGL).*
Reached 1938 students in K-12 Public School both in-person and virtually. Designed new outreach curriculum materials. Trained and supervised a team of 4 undergraduate and graduate student interns.

8 Mar. 2020, 22 Mar. 2020 **Activity Facilitator.** *University of Michigan Math Circle.* Middle school students.

Oct. – Nov. 2017 **Activity Facilitator.** *Wolverine Pathways.* High school students.
Math circle leader for 8th and 11th graders on three different Saturdays in Fall 2017.

Nov. 2016, Mar. 2017, Nov. 2017 **Activity Facilitator.** *Females Excelling in Math, Engineering, and the Sciences (FEMMES) Capstone Event.* 4th-6th grade girls.

Jul. 2012 **Instructor.** *MISE Math Camp.* Accra, Ghana.
Instructed number theory for exceptional high school students in Ghana. The month long summer camp included three weeks of course work and culminated in one week of small groups research projects.

Teaching Experience

George Mason University

Sp 23 Math 776: **Measure and Integration.** *Primary Instructor.*

Fa 22 Math 125: **Discrete Mathematics I.** *Primary Instructor.*

Sp 22 Math 300: **Introduction to Advanced Mathematics.** *Primary Instructor.* (Two sections)

Fa 21 Math 271: **Mathematics for Elementary Teachers I.** *Primary Instructor.* (Two sections)

Su 21 Math 321: **Abstract Algebra.** *Primary Instructor.* (Virtual, synchronous)

Sp 21 Math 271: **Mathematics for Elementary Teachers I.** *Primary Instructor.* (Virtual, synchronous, two sections)

Fa 20 Math 114: **Calculus II.** *Primary Instructor.* (Virtual, synchronous with asynchronous option)

Fa 20 Math 271: **Mathematics for Elementary Teachers I.** *Primary Instructor.* (Virtual, synchronous)

University of Michigan

Wi 20 Math 440: **The Lab of Geometry at Michigan, LoGM.** *Primary Instructor and Course Creator.*

Fa 19 Math 440: **The Lab of Geometry at Michigan, LoGM.** *Primary Instructor and Course Creator.*

Fa 19 Math 217: **Linear Algebra with Introduction to Proof.** *Primary Instructor.*

Wi 19 Math 217: **Linear Algebra with Introduction to Proof.** *Primary Instructor.* (Two sections)

Fa 18 Math 217: **Linear Algebra with Introduction to Proof.** *Primary Instructor.* (Two sections)

Fa 17 Math 217: **Linear Algebra with Introduction to Proof.** *Primary Instructor.* (Two sections)

Wi 17 Math 310: **Explorations in Probability.** *Primary Instructor.*
 Fa 16 Math 490: **Introduction to Topology.** *Primary Instructor.*

Tufts University

Fa 15 Math 36: **Applied Calculus II.** *Primary Instructor.*
 Sp 15 Math 19: **The Mathematics of Social Choice.** *Primary Instructor.*
 Fa 14 Math 19: **The Mathematics of Social Choice.** *Primary Instructor.*
 Fa 12 – Su 14 **Poincaré Institute for Mathematics Education.** *Online Course Moderator and Research Assistant.*

Conferences, Seminars, Workshops, and Visits

Invited Presentations

9 Feb. 2023 **Dynamics Seminar.** *University of Maryland.* College Park, MD.
 6 Jan. 2023 **Joint Mathematics Meeting AMS-Spectra Special Session on Research by LGBTQ+ Mathematicians.** Boston, MA.
 4 Jan. 2023 **Joint Mathematics Meeting Special Session: Dynamics, Geometry & Group Actions.** Boston, MA.
 11 Nov. 2022 **Topology, Algebra, and Dynamics Seminar.** *George Mason University.* Fairfax, VA.
 1 Nov. 2022 **Geometry Seminar.** *University of Virginia.* Charlottesville, VA.
 19 Sep. 2022 **Geometry Seminar.** *George Mason University.* Fairfax, VA.
 23 Mar. 2021 **Topology and Geometry Seminar.** *Florida State University.* Tallahassee, FL. (virtual)
 14 – 25 Jun. 2021 **The Nearly Carbon Neutral Geometric Topology Conference.** (virtual)
 18 Nov. 2020 **Max Dehn Seminar.** *University of Utah.* Salt Lake City, UT. (virtual)
 10 Apr. 2020 **Geometry and Topology Seminar.** *Columbia University.* New York, NY. (virtual)
 18 Nov. 2019 **Geometry and Discrete Groups Seminar.** *Institute Hautes Études Scientifiques (IHES).* Bures-sur-Yvette, France.
 27 – 31 May 2019 **Dynamics of group actions: a conference in the honor of Yves Benoist.** Cetraro, Italy.
 11 Apr. 2019 **Geometric Group Theory Seminar.** *Ohio State University.* Columbus, OH.
 4 – 6 Jun. 2019 **Boundaries of random walks.** *Bowdoin College.* Brunswick, ME.
 24 – 28 Jun. 2019 **Perspectives on convex projective geometry.** Sète, France.
 16 – 19 Jan. 2019 **Joint Mathematics Meeting Special Session on Geometry Labs United: Research, Visualization, and Outreach.** Baltimore, MD.
 30 Jul. – 3 Aug. 2018 **Conference on group actions and ergodic theory in geometry and topology.** *The Hamilton Mathematics Institute.* Dublin, Ireland.
 30 Apr. 2018 **Dynamics seminar.** *University of Chicago.* Chicago, IL.

10 – 13 Jan. 2018	Joint Mathematics Meeting Special Session: Boundaries for groups and spaces. San Diego, CA.
2 May 2017	Dynamical Systems Seminar. <i>Northwestern University.</i> Evanston, IL.
22 Apr. 2017	Junior Geometry and Topology in the Midwest Conference. <i>University of Wisconsin.</i> Madison, WI.
13 Mar. 2017	Geometry and Topology Seminar. <i>University of Toronto.</i> Toronto, ON, Canada.
9 Feb. 2017	Ergodic Theory/Probability Seminar. <i>Ohio State University.</i> Columbus, OH.
28 Nov. 2016	Complex Analysis, Dynamics, and Geometry seminar. <i>University of Michigan.</i> Ann Arbor, MI.
4 Nov. 2016	Howard University Mathematics Colloquium. Washington, DC.
27 – 30 Oct. 2016	Workshop in Dynamical Systems. <i>Pennsylvania State University.</i> State College, PA.
2 – 11 Aug. 2016	Minicourse on ergodic geometry in a nonuniformly hyperbolic setting. <i>University of Maryland.</i> College Park, MD. (4 courses)
26 Apr. 2016	Dynamics and Algebra seminar. <i>Wesleyan University.</i> Middletown, CT.
15 Feb. 2016	Dynamics seminar. <i>University of Chicago.</i> Chicago, IL.
3 Dec. 2015	Everytopic seminar. <i>Brandeis University.</i> Waltham, MA.
31 Oct. 2015	Midwest Dynamical Systems Meeting. <i>Ohio State University.</i> Columbus, OH. (poster)
21 Feb. 2015	Graduate Student Math Conference. <i>Brown University.</i> Providence, RI.
12 May 2014	IRMA Master Class: student-postdoc seminar. <i>University of Strasbourg.</i> Strasbourg, France.
31 Mar. 2014	School on Geometry and Dynamics. <i>Centre International de Rencontres Mathématiques (CIRM).</i> Luminy, France. (poster)
28 Mar. 2014	Séminaire Teich. <i>Aix-Marseille University.</i> Marseille, France.

Conferences Attended

6 – 12 Aug. 2023	Collaborative projects in geometric topology. Lexington, VA.
4 – 7 Oct. 2018	Workshop in Dynamical Systems and Related Topics. <i>Pennsylvania State University.</i> State College, PA.
12 – 13 Aug. 2017	Geometry Labs United. <i>University of Washington.</i> Seattle, WA.
18 – 24 Jun. 2017	Mathematical Research Community Workshop on Dynamical Systems: Smooth, Symbolic, and Measurable. Snowbird Resort, UT.
15 – 19 Aug. 2016	Workshop on Moduli Spaces of Geometric Structures. <i>Institute for Mathematical Sciences.</i> Singapore.
15 – 17 Apr. 2016	Workshop on Dynamical Systems and Related Topics. <i>University of Maryland.</i> College Park, MD.
7 – 11 Mar. 2016	Fractal Geometry, Hyperbolic Dynamics and Thermodynamical Formalism. <i>Institute for Computational and Experimental Research in Mathematics (ICERM).</i> Providence, RI.

22 – 24 Jun. 2016	Geometries, surfaces and representations of fundamental groups. <i>University of Maryland.</i> College Park, MD.
6 – 9 Jan. 2016	Joint Mathematics Meetings. Seattle, WA.
14 – 15 Nov. 2015	AMS Fall Eastern Sectional Meeting. <i>Rutgers University.</i> New Brunswick, NJ.
19 Sep. 2015	Women In Mathematics In New England (WiMiN). <i>Smith College.</i> Northampton, MA.
20 – 23 Jan. 2015	MSRI Introductory Workshop: Dynamics on Moduli Spaces of Geometric Structures. <i>Mathematical Sciences Research Institute (MSRI).</i> Berkeley, CA.
15 – 16 Jan. 2015	MSRI Connections for Women: Dynamics on Moduli Spaces of Geometric Structures. <i>Mathematical Sciences Research Institute (MSRI).</i> Berkeley, CA.
9 – 17 May 2014	IRMA Master Class: Around Thurston-Grothendieck-Teichmüller theories. <i>University of Strasbourg.</i> Strasbourg, France.
Apr. 2014	Finsler Geometry and Applications. <i>Galatasaray University.</i> Istanbul, Turkey.
20 – 24 Jan. 2014	Young Researchers in Geometric Groupy Theory. <i>Centre International de Rencontres Mathématiques (CIRM).</i> Luminy, France.
4 – 14 Jun. 2014	ICTP-NLAGA School in Dynamical Systems and Ergodic Theory. <i>African Institute for Mathematical Sciences (AIMS).</i> Dakar, Senegal.
2 – 6 Dec. 2013	Hyperbolicity and Dimension. <i>Centre International de Rencontres Mathématiques (CIRM).</i> Luminy, France.
29 Nov. 2013	Young Mathematicians in Dynamical Systems. <i>Centre International de Rencontres Mathématiques (CIRM).</i> Luminy, France.
27 May – 6 Jun. 2013	Beyond Uniform Hyperbolicity. Będlewo, Poland.

Seminars Attended

Jan. 2022 – present	Geometry Seminar (MMA: metrics, measures, and algorithms). <i>George Mason University.</i> Fairfax, VA.
Sep. 2016 – May 2020	RTG working seminar on geometry, topology, and dynamics. <i>University of Michigan.</i> Ann Arbor, MI.
Sep. 2016 – May 2020	Topology seminar. <i>University of Michigan.</i> Ann Arbor, MI.
Sep. 2014 – May 2016	Geometric Group Theory and Topology Seminar. <i>Tufts University.</i> Medford, MA.
Feb. – Apr. 2014	Séminaire: Dynamique, Arithmétique et Combinatoire. <i>Institut de Mathématiques de Marseille.</i> Marseille, France.
Jan. – Apr. 2014	Séminaire: Teich. <i>Aix-Marseille University.</i> Marseille, France.
Sep. 2012 – Dec. 2013	Dynamics Seminar. <i>Tufts University.</i> Medford, MA.
Spring 2013	Working seminar on Ergodic Geometry. <i>Tufts University.</i> Medford, MA.

Invited Visits

8 – 12 Aug. 2022	Invited Guest. <i>University of Wisconsin.</i> Madison, WI.
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Nov. 2019	Invited Guest. <i>Institute Hautes Études Scientifiques (IHES).</i> Bures-sur-Yvette, France.
Jan. – Apr. 2014	Invited Guest. <i>Centre International de Rencontres Mathématiques (CIRM).</i> Luminy, France.

Pedagogical Training

Spring 2021 – Spring 2022	Teaching Seminar. <i>George Mason University.</i> Department of Mathematical Sciences. Fairfax, VA.
Winter 2018 – Winter 2020	Learning Community on Inclusive Teaching (LCIT). <i>University of Michigan.</i> Department of Mathematics. Ann Arbor, MI.
Fall 2016 – Spring 2020	Inquiry Based Learning (IBL) working seminar. <i>University of Michigan.</i> Department of Mathematics. Ann Arbor, MI.
Summer 2016, Summer 2017	Inquiry Based Learning (IBL) Workshop. <i>University of Michigan.</i> Department of Mathematics. Ann Arbor, MI. The annual three day IBL workshop consists of observing and analyzing an inquiry-based learning (IBL) classroom and discussing IBL-style instructional practices.
Summer 2016	Michigan Teaching Training. <i>University of Michigan.</i> Department of Mathematics. Ann Arbor, MI. The University of Michigan has an extensive teacher training program for new hires, run by the mathematics department in conjunction with the Michigan Center for Research on Learning and Teaching (CRLT).
Spring – Fall 2016	Graduate Institute for Teaching (GIFT). <i>Tufts University.</i> Graduate School of Arts and Sciences. Medford, MA. The Tufts Graduate Student Institute for Teaching (GIFT) awards fellowships on a competitive basis across all fields of scholarship at Tufts. Teaching fellows participate in an intensive summer workshop on pedagogy before working with a faculty mentor in the classroom the following semester.

Memberships

American Mathematical Society (AMS)