

# Lisa Traynor

## Mathematics Department, Bryn Mawr College

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### Education

- SUNY Stony Brook, New York, Ph.D. in Mathematics, 1992.  
Advisor: Professor Dusa McDuff
- Beloit College, Wisconsin, B.S. in Mathematics, Summa Cum Laude, 1987.

### Professional Appointments

- Bryn Mawr College,
  - Professor of Mathematics, Fall 2006 – present;
    - Department Chair, 2006 – 2009, 2017 – 2021.
    - Class of 1897 Professor of Science, 2020 – present.
  - Associate Professor of Mathematics, 1999 – 2006.
  - Assistant Professor of Mathematics, 1993 - 1999.
- Mathematical Sciences Research Institute Research Professor, Floer Homotopy Theory Program, Fall 2022.
- Institute for Advanced Study Member, Princeton, NJ, Spring 2016.
- University of Pennsylvania Visitor, 2005-2006.
- Institute for Advanced Study, Visitor for Program on Holomorphic Curves, Princeton, NJ, Fall 2001-Spring 2002.
- Institute for Advanced Study Member, Princeton, NJ, Spring 2001.
- American Institute of Mathematics, Member of the Contact Geometry Program, Palo Alto, CA, Fall 2000.
- Mathematical Sciences Research Institute Member of the Low-Dimensional Topology Program, Berkeley, 1996-1997.
- Isaac Newton Institute of Mathematical Sciences Member of the Program on Symplectic Geometry, Cambridge, England, Fall 1994.
- Centre Emile Borel, Institut Henri Poincaré Fellow during the Symplectic Topology Semester, Paris, France, February - July 1994.
- NSF Postdoctoral Fellow at Stanford University, September 1993 - February 1994.
- Mathematical Sciences Research Institute Postdoctoral Fellow, Berkeley, CA, 1992 -1993.

## **Research Funding Awards**

- ❖ American Institute of Mathematics SQuaRE (Structured Quartet Research Ensemble), “Lagrangian Cobordisms and Norms on the Contactomorphism Group”, 2019-present.
- ❖ Mellon Tri-College Fellow, “PACT Seminar”, 2014-2015, 2015-2016, 2016-2017, 2017-2022.
- ❖ American Institute of Mathematics SQuaRE, “Augmentations, Rulings, and Generating Families”, 2009 - 2013.
- ❖ National Science Foundation Research Grant, Division of Mathematical Sciences, Geometric Analysis (Joint with Joshua Sabloff, Haverford College), 2009-2013.
- ❖ Mellon Tri-College Fellow, “Faculty-Student Seminar in Topology”, 2005-06.
- ❖ Mellon Tri-College Fellow, “Faculty Seminar in Contact Topology”, 2004-05.
- ❖ National Science Foundation Research Grant, Division of Mathematical Sciences, Geometric Analysis, 1999-2003.
- ❖ National Science Foundation Mathematical Sciences Postdoctoral Research Fellowship, 1993-1997.
- ❖ Fellowship through Ministère des Affaires Etrangères, France, to attend Symplectic Topology Program at Institut Henri Poincaré, Spring 1994.
- ❖ Funded Participant for the Séminaire de Mathématiques Supérieures NATO Advanced Study Institute on Gauge Theory and Symplectic Geometry, Montréal, Canada, July 1995.
- ❖ Funded Participant for the NSF Regional Geometry Institute on Algebraic Geometry, Park City, Utah, June - July 1993.
- ❖ Alfred P. Sloan Doctoral Dissertation Fellowship, 1991-1992.

## **Other Awards**

- ◇ Bryn Mawr Faculty Mentorship Award, GSAS Students and Council, 2018.
- ◇ McPherson Award for Excellence, Bryn Mawr College, 2017.
- ◇ Mathematics Department Teaching Award, Stony Brook University, 1992.
- ◇ Beloit College
  - Presidential Scholarship, 1983-1987.
  - Conwell P. Huffer Prize in Mathematics, 1987.
  - Phi Beta Kappa Membership, 1986.

## Publications

- *Immersed Lagrangian Fillings of Legendrian Sumanifolds via Generating Families*, Pezzimenti, S. and Traynor, L., (in preparation).
- *Obstructions to Reversing Lagrangian Surgery in Lagrangian Fillings*, Capovilla-Searle, O., Legout, N., Limouzineau, M., Murphy, E., Pan, Y., and Traynor, L., *to appear: Journal of Symplectic Geometry*, <https://arxiv.org/abs/2207.13205>
- *Legendrian Torus and Cable Links*, Dalton, J., Etnyre, J., and Traynor, L., *to appear: Journal of Symplectic Geometry*, <https://arxiv.org/abs/2107.12323ArXiv>
- *Constructions of Lagrangian Cobordisms*, Blackwell, S., Legout N. Levenson, C., Limouzineau, M., Myer, Z., Pan, Y., Pezzimenti, S., Suárez, L.S., and Traynor, L. in *Research Directions in Symplectic and Contact Geometry and Topology (Association for Women in Mathematics Series 27)*, Springer 2021; <https://arxiv.org/abs/2101.00031>.
- *Research Directions in Symplectic and Contact Geometry and Topology (Association for Women in Mathematics Series 27)*, Co-Editors: B. Acu, C. Cannizzo, D. McDuff, Z. Myer, Y. Pan, L. Traynor, Springer, 2021.
- *An Introduction to the World of Legendrian and Transverse Knots*, Traynor, L., in *A Concise Encyclopedia of Knot Theory*, CRC Press, 2021.
- *The Relative Gromow Width of Lagrangian Cobordisms between Legendrians*, Sabloff, J. and Traynor, L., *Journal of Symplectic Geometry*, Vol 18, No 1, 217-250, 2020.
- *The Minimal Length of a Lagrangian Cobordism between Legendrians*, Sabloff, J. and Traynor, L., *Selecta Mathematica New Series*, 23: 1419-1448, 2017.
- *Non-Orientable Lagrangian Cobordisms between Legendrian Knots*, Capovilla-Searle, O. and Traynor, L., *Pacific Journal of Mathematics*, Vol 285, No. 2, 319--334. 2016; DOI 10.2140/pjm.2016.285.319.
- *Lagrangian Cobordisms via Generating Families: Construction and Geography*, Bourgeois, F., Sabloff, J. and Traynor, L., *Algebraic and Geometric Topology*, Vol 15, 2439-2477, 2015.
- *Obstructions to Lagrangian Cobordisms between Legendrians via Generating Families*, Sabloff, J. and Traynor, L., *Algebraic and Geometric Topology*, Vol 13, issue 5, 2733-2798, 2013.
- *The surgery unknotting number of Legendrian links*, B. Boranda, L. Traynor, S. Yan, *Involve*, Vol 6, No. 3, 273-299, 2013.
- *Obstructions to the Existence and Squeezing of Lagrangian Cobordisms*, Sabloff, J. and Traynor, L., *Journal of Topology and Analysis*, Vol 2, No. 2, 203 - 232, 2010.

- *A Partial Ordering on Slices of Planar Lagrangians*, Eisman, P., Lima, J., Sabloff, J., and Traynor, L., *Journal of Fixed Point Theory and Applications*, Volume 3, Number 2, 431-447, September 2008.
- *Generating family invariants for Legendrian links of unknots*, Jordan, J. and Traynor, L., *Algebraic and Geometric Topology*, Volume 6, 763-807, 2006.
- *Legendrian Solid-Torus Links*, Ng, L. and Traynor, L., *Journal of Symplectic Geometry*, Volume 2, Number 3, 411-443, 2004.
- *Generating Function Polynomials for Legendrian Links*, Traynor, L., *Geometry and Topology*, Vol. 5 (2001) Paper no. 23, pages 719--760.
- *Symplectic Packings of Cotangent Bundles of Tori*, Maley, F. M., Mastrangeli, J. and Traynor, L., *Experimental Mathematics*, Vol 9, No. 3, 2000, 435-455.
- *Symplectic Geometry and Topology*, IAS/ Park City Mathematics Series, Vol 7, Eliashberg, Y. and Traynor, L., eds., 1999.
- *A Legendrian Stratification of Rational Tangles*, Traynor, L., *Journal of Knot Theory and its Ramifications*, Vol 7, No. 5, 1998, 659-700.
- *Legendrian Circular Helix Links*, Traynor, L., *Mathematical Proceedings of the Cambridge Philosophical Society*, Vol 122, 1997, pp. 301 - 314.
- *Symplectic Packing Constructions*, Traynor, L., *Journal of Differential Geometry*, Vol 42, No. 2, 1995, 411 - 429.
- *Symplectic Homology via Generating Functions*, Traynor, L., *Geometric and Functional Analysis*, Vol. 4, No. 6, 1994, pp. 718 - 748.
- *Symplectic Embedding Trees for Generalized Camel Spaces*, Traynor, L., *Duke Mathematics Journal*, Vol. 72, No. 3, December 1993, pp. 573 - 594.
- *The 4-dimensional Symplectic Camel and Related Results*, McDuff, D. and Traynor, L., in *Symplectic Geometry*, D. Salamon (ed.), *London Mathematical Society Lecture Note Series*, Cambridge Univ. Press, 1993, pp. 169 - 182.
- *Symplectic Embeddings of Balls and the Mapping Problem*, Traynor, L., Ph.D. Dissertation, State University of New York at Stony Brook, August 1992.

## Invited Research Talks

- PATCH, March 2023
- UC Davis, Topology Seminar, October 2022.
- ICERM, Braids in Low-Dimensional Topology, April 2022.
- JMM AWM Special Session, Women and Gender Minorities in Symplectic and Contact Geometry and Topology, Seattle/Virtual, April 2022.
- JMM AWM Special Session, Women in Geometry, Seattle/Virtual, April 2022.
- PU/IAS Symplectic Seminar, Princeton, November 2021.
- Colloquium, Universidad de Colima, Mexico, October 2021.
- IHP Advances in Symplectic Topology Workshop, Paris, April 2021.
- AMS Special Session, Spring Central Section Meeting, April 2021.
- University of Alabama Colloquium, March 2021.
- IAS/Princeton University Symplectic Zoominar, April 2020.
- Dartmouth University, Colloquium and Topology Seminar, March 2020.
- CAST 2020: 14<sup>th</sup> Workshop on Symplectic Geometry, Contact Geometry, and Interactions, University of Antwerpen, Belgium, February 2020.
- Triangle Topology Seminar, Duke University, March 2019.
- Rutgers Geometric Analysis Seminar, September 2019.
- Yashafest, Asilomar, CA, August 2018.
- Topology Students Workshop, Georgia Tech, June 2018.
- Fields Institute Workshop on Immersed Lagrangian Cobordisms, Ottawa, April 2018.
- Cornell – PSU Joint Symplectic Seminar, Cornell, March 2018.
- Symplectic Geometry in Lyon, France, November 2017
- Cospin Meeting in Lyon, France, October 2017.
- Low Dimensional Symplectic and Contact Topology, Mathfest, Chicago, July 2017.
- Quantitative Symplectic Geometry, Simons Center, Stony Brook, NY, May 2017.
- Tech Topology Conference, Georgia Tech, December 2016.
- Hamilton Workshop on Low-Dimensional and Symplectic Topology, Dublin, Ireland, August 2016.
- Unknots III, Denison College, July 2016.
- Georgia Topology Conference, May 2016.
- ANR Workshop on Symplectic Topology, UQÀM, Montreal, Canada, June 2016.

- Math Conversation, IAS, February 2016.
- Augmentations and Legendrians at IAS Conference, Princeton, February 2016.
- University of Georgia, Geometry Seminar, January 2016.
- Association for Women in Mathematics Research Symposium, Special Session on Symplectic Topology, University of Maryland, April 2015.
- Penn Geometry Seminar, April 2015.
- Stratified Spaces in Geometric and Computational Topology and Physics, University of Wisconsin, March 2015.
- Tetrahedral Geometry/Topology Seminar, February 2015.
- Banff Conference on Parameterized Morse Theory in Low-Dimensional and Symplectic Topology, March 2014.
- Math for Everyone, Notre Dame, December 2013.
- Geometry Seminar, Notre Dame, December 2013.
- Pacific Northwest Geometry Seminar, Portland State University, May 2013.
- Redbud Topology Conference, University of Arkansas, March 2013.
- AIM Workshop on Higher-Dimensional Contact Structures, June 2012.
- Mini-series during workshop on Generating Families, Nantes, France, 2011.
- Lehigh University Mathematics Colloquium, February 2010.
- University of Buffalo Geometry Seminar, March 2010.
- MSRI Summer Graduate Workshop, August 2009.
- Penn Geometry Seminar, February 2009.
- AMS Special Session on Low Dimensional Topology, Wesleyan University, 2008.
- Columbia University Topology Seminar, December 2006.
- Dartmouth Colloquium, November 2006.
- Dartmouth Geometry Seminar, November 2006.
- Penn State Geometry and Dynamics Seminar, October 2006.
- MASS Colloquium, Penn State, October 2006.
- AMS Special Session on Symplectic and Contact Geometry, New Hampshire, 2006.
- Penn Geometry Seminar, March and October 2005.
- American Institute of Mathematics, Special Program on Holomorphic Curves in Contact Geometry, Palo Alto, August 2003.

- AMS Special Session on Symplectic and Contact Geometry, New York, April 2003.
- Swarthmore Colloquium, November 2002.
- UC-Berkeley Mathematics Colloquium, September 2000.
- Rice University Mathematics Colloquium and Geometry Seminar, September 2000.
- UC-Santa Cruz Mathematics Colloquium, September 2000.
- Stanford University Mathematics Colloquium, November 2000.
- Canadian Mathematical Society Joint Meeting, Symplectic Geometry Session, McMaster University, June 2000.
- Cornell Mathematics Colloquium, March 2000.
- Lehigh University Mathematics Colloquium, September 1999.
- AMS Special Session on Integrable Systems, Buffalo, April 1999.
- AMS special session on Symplectic Geometry and Topology, Urbana, March 1999.
- Texas Geometry and Topology Conference, February 1999.
- Rutgers University Geometry and Topology Seminar, NJ, September 1998.
- University of Pennsylvania Geometry Seminar, April 1998.
- University of Arkansas Mathematics Colloquium and Geometry Seminar, Fayetteville, March 1998.
- American Mathematical Society Special Session on Symplectic Topology and Quantum Cohomology, Milwaukee, Wisconsin, October 1997.
- American Mathematical Society Special Session on Symplectic Geometry and Mechanics, Western Division Meeting, Corvallis, Oregon, April 1997.
- UC-Davis Geometry Seminar, April 1997.
- Seventh Midwest Geometry Conference, Lawrence, Kansas, April 1997.
- Berkeley-Davis-Santa Cruz-Stanford Joint Symplectic Geometry Seminar, 1997.
- Low-Dimensional Topology Seminar, Mathematical Sciences Research Institute, Berkeley, October 1996.
- Conference on Symplectic Topology and Four- and Three-Dimensional Manifolds, Monte Verita, Ascona, Switzerland, July 1996.
- Symplectic Geometry Seminar, University of Nice, France, July 1996.
- Symplectic Geometry Workshop, Penn State University, February 1996.
- American Mathematical Society Special Session on Geometry, Topology, and Analysis of Noncompact Manifolds, Joint Mathematics Meeting, Orlando, 1996.

- NATO Advanced Study Institute on Gauge Theory and Symplectic Geometry, Séminaire de Mathématiques Supérieures, Université de Montréal, July 1995.
- Workshop on Geometry, Topology, and Dynamics, Centre de Recherches Mathématiques, Université de Montréal, June 1995.
- MIT Symplectic Geometry Conference, May 1995.
- University of Pennsylvania Geometry Seminar, February 1995.
- École Polytechnique Geometry Seminar, Paris, France, October 1994.
- Workshop on Floer Homology, (2 lectures), Newton Institute, England, September 1994.
- Seminaire Sud Rhodanien de Geometry, Aussois, France, June 1994.
- Symplectic Topology Seminar, Centre Emile Borel, Institut Henri Poincaré, Paris, February and June 1994.
- Department Seminar, École Normale Supérieure-Lyon, France, April 1994.
- American Mathematical Society Special Session on Symplectic Geometry, Joint Mathematics Meeting, Vancouver, August 1993.
- Regional Geometry Institute on Higher Dimensional Algebraic Geometry, (3 lectures), Utah, July 1993.
- UC-Berkeley and Mills College Summer Program Colloquium, July 1993.
- Midwest Several Complex Variables Conference, University of Michigan, 1993.
- Berkeley-Davis-Santa Cruz-Stanford Joint Symplectic Geometry Seminar, 1993.
- University of California at Berkeley Colloquium, February 1993.
- Mathematical Sciences Research Institute Seminar, November 1992.
- University of California at Berkeley Symplectic Geometry Seminar, October 1992.
- SUNY at Stony Brook Geometry and Topology Seminar, April 1992.
- MIT conference on Symplectic and Poisson Geometry, April 1992.
- University of Arkansas Lecture Series in Mathematics on Symplectic Topology, 1992.
- American Mathematical Society Special Session on Symplectic Topology, Joint Mathematics Meeting, Baltimore, January 1992.
- Association for Women in Mathematics Poster Session, January 1992.



### **Ph.D. Dissertation Advising**

- Alfredo Vargas, Jr., 2020, *Conformal Symplectic Geometry: in progress.*
- Samantha Pezzimenti, PhD 2018, *Immersed Lagrangian Fillings of Legendrian Submanifolds via Generating Families.*
- Ziva Myer, PhD 2017, *A product structure on Legendrian submanifolds from Generating Families.*
- Christopher Micklewright, PhD 2012, *Circle-Valued Generating Family Invariants.*
- Jennifer Dalton, PhD 2008, *Legendrian Torus Links.*
- Jill Jordan, PhD 2006, *Generating Family Invariants for Legendrian Links of Unknots.*
- Jean Mastrangeli, PhD 1997, *Symplectic Packings in Cotangent Bundles of Tori.*

### **Master's Thesis Advising**

- Dee Ann Reisinger, 2023 (in progress), *Applications of Algebraic Geometry to Problems in Contact Topology.*
- Alfredo Vargas, Jr., 2020, *The Rectangular Peg Problem.*
- Seppo Niemi-Colvin, 2016, *Normal Rulings of Legendrian Satellites: Uses and Construction (AB Honors, MA).*
- Samantha Pezzimenti, 2015, *Lagrangian Caps of Legendrian Knots.*
- Laura Mansfield, 2010, *Generating Family Constructions of Capacities and Applications towards Partial Orderings.*
- Devasish Majumdar, 2005, *Arnold's 4-Cusp Conjecture; (Swarthmore AB).*
- Emi Arima, 2005, *The Arnold Invariants of Plane Curves (AB Honors, MA).*
- Kim Urso, 2004, *Morse Theory.*
- Jane Holsapple, 2002, *Chekanov's Decomposition Invariant for Legendrian Knots.*

**Undergraduate Research and Thesis Advising**

- ◇ Olga Shevchuk, 2022, *Application of Dual Quaternions to Skinning of Characters* (AB Honors)
- ◇ Peiran Xu, 2021, *Calculus of Variations and Optimal Control in Economics* (AB Honors).
- ◇ Blossom Jeong, 2020, *Unknotting Numbers of Transverse Knots* (AB Honors).
- ◇ Rose Kaplan-Kelley, 2017, *Multi-Crossing Projections of Legendrian Knots* (AB Honors).
- ◇ Samantha Kacir, 2017, *Randomly Generated Legendrian Knots*.
- ◇ Orsola Capovilla-Searle, 2013- 2015, *Non-orientable Lagrangian Cobordisms*  
(Mellon-Mays, AB Honors).
- ◇ Lipika Ramaswamy, 2015, *Fixed Point Theorems in Economics* (AB Honors).
- ◇ Swetha Narasimhan, 2015, *Analyzing Music through Geometry* (AB Honors).
- ◇ Zhuoman Zhao, 2014, *Dynamics of Location, Education, and Production* (AB Honors).
- ◇ Qian Wu, 2013, *Cooperative Games* (AB Honors).
- ◇ Bianca Boranda, 2013, *Multistage Stochastic Games* (AB Honors).
- ◇ Alex Lee, 2011, *Configuration Spaces of Graphs* (AB Honors).
- ◇ Alison Panosian, 2011, *Using Phylogenetic Trees to Understand the  
Evolution of Genes* (AB Honors).
- ◇ Kyla Quillen, 2008, *Unknotting Number of Legendrian Knots*.
- ◇ Cora Marty, 2004, *Double Soap Bubbles in the Plane*.
- ◇ Sarah Crown, 2001-2002, *Symplectic Packing Constructions*  
(Marshall Fellow, AB Honors).
- ◇ Rachael Thomas, 2000, *Chirality of Knots* (AB Honors).
- ◇ Elaina Khenina, 1999, *Invariants for Legendrian Knots*.

### **Undergraduate Summer Research Supervision**

- Peiran Xu, 2020, *Calculus of Variations and Optimal Control in Biology and Economics*.
- Orsola Capovilla-Searle, Tatiana Hammond, Emily Schroeter, 2012, *The Surgery Unlinking Number for Legendrian Slice Knots*.
- Bianca Boranda and Shuning Yan, 2011, *The Surgery Unknotting Number for Legendrian Links*.
- Elaina Khenina and Jennifer Faerber, 1999, *Tangle Calculations in DNA-enzyme Mechanisms*.
- Juliana Belding, 1999, *Number Theory behind Symplectic Packings*.

### **National and International Professional Service and Outreach**

- ◇ Reviewer of Grant for Israel Science Foundation (ISF), Spring 2023.
- ◇ Reviewer and jury member for PhD dissertation of Cyril Falcon, Université de Paris-Saclay, January 2023.
- ◇ WAM (Women and Mathematics) Panelist during a celebration of Karen Uhlenbeck's 80<sup>th</sup> Birthday, IAS, Princeton, September 2022.
- ◇ Floer Homotopy Theory Connections Workshop Panelist and Networking Session Leader, September 2022.
- ◇ Topology Students Workshop Mentor, July 2022, July 2020, June 2018.
- ◇ Member of PhD Defense Jury of Simon Allais, École Normale Supérieure, Paris, France. June 2021.
- ◇ Member of PhD Thesis Committee of Johan Asplund, Uppsala University, Sweden. June 2021.
- ◇ Member of NSF review panel: 2021, 2016, 2012, 2010, 2006, 2003.

- ◇ Mathematical Sciences Research Institute (MSRI) Career Development Panel, November 2020.
- ◇ Virtual Career Panel, June 2020, Virtual Low-Dimensional Topology  
<https://sites.google.com/bc.edu/virtualtopology/home?authuser=0>
- ◇ Host of DiverSCI-Tea Coffee Hour, June 2020.
- ◇ Jury Member for Baptiste Chantraine's Habilitation à Diriger des Recherches, Université de Nantes, France, December 2019.
- ◇ American Mathematical Society (AMS) Eastern Section Program Committee, February 2020 – January 2022.
- ◇ WisCon (Women in Symplectic and Contact Geometry and Topology) Organizer and Panelist, ICERM, Providence, RI, July 2019.
- ◇ Women In Geometry (WIG) Team Leader for Workshop 2, Oaxaca, Mexico, June 2019.
- ◇ AMIAS (Association of Members of the Institute for Advanced Study) Board of Trustees, 2017-2021.
- ◇ MSRI Human Resources liaison for Program on Hamiltonian Systems Fall 2018.
- ◇ Math Alliance: Adhoc committee to draft site selection policy for Field of Dreams Conference, Fall 2017.
- ◇ Math Alliance: F-GAP mentor, 2016-present.
- ◇ Re:boot Mentor, Duke University, June 2017.
- ◇ Member of Ad-Hoc Site Selection Process Committee of Math Alliance, Fall 201.
- ◇ Member of PhD Dissertation Committee of Maÿlis Limouzineau, Institut Mathématique de Jussieu, Paris, France, Fall 2016.
- ◇ Member of the American Mathematical Society Committee on the Profession, 2013 – 2016.
- ◇ Chair of AMS Committee to Investigate Potential Site Visit Program for the American Mathematical Society, 2015-2016.
- ◇ Chair of AMS Committee to rewrite American Mathematical Society Anti-Harassment Policy, 2014-2015.
- ◇ Co-organizer of Topological and Quantitative Aspects of Symplectic Manifolds: A Conference in Honor of Dusa McDuff's 70th Birthday, Columbia University, March 2016.

- ◇ Faculty Mentor, IAS Women and Mathematics Program, May 2016.
- ◇ F-GAP Mentor of two underrepresented minority students for Math Alliance, Fall 2015.
- ◇ Field of Dreams Panelist, Math Alliance, Birmingham, AL, November 2015.
- ◇ Diversity Representative for Human Resource Advisor Committee of Mathematical Sciences Research Institute (MSRI) for 2018-2019 Program Proposal, Fall 2015.
- ◇ Banff Workshop Leader, Women in Geometry, Banff, CA, November 2015.
- ◇ Organizer of American Mathematical Society Special Session on Contact and Symplectic Topology, October 2013.
- ◇ Member of PhD Dissertation Committee of Georgios Dimitroglou Rizell, Uppsala University, Sweden, 2012.
- ◇ Association for Women in Mathematics (AWM) Executive Committee, 2008 - 2012, Chair of Fundraising 2008 – 2012, Website Redesign Taskforce, 2008-2010, Member of Humphrey's Prize Selection Committee 2009 – 2013.
- ◇ Graduate Lecturer for IAS Women in Mathematics Program on Symplectic and Contact Topology, May 2012.
- ◇ Lecturer for *Science on Saturday Series* sponsored by Princeton University's Plasma Physics Laboratory, 2012.
- ◇ Associate Editor for the *Notices of the American Mathematical Society*, 2000-2009.
- ◇ Associate Editor for Book Reviews of the *Bulletin of the American Mathematical Society*, 2006 – 2011.
- ◇ Co-organizer for Mathematical Sciences Research Institute (MSRI) Introductory Workshop for yearlong program in Symplectic and Contact Topology, August 2009.
- ◇ Program Committee Member of the Institute for Advanced Study Women's Program, 1996-2009.
- ◇ Co-organizer for American Institute of Mathematics (AIM) Workshop on Legendrian and Transverse Knots, September 2008.
- ◇ American Mathematical Society Nominating Committee, 2006 – 2008.
- ◇ Presented mathematics talk to a general audience of adults in Main Line School Night Science Series, March 2007.
- ◇ Author of article on Bryn Mawr Alumnae, *MAA Math Horizons*, September 2007.

- ◇ Author of Book Review for the *Bulletin of the AMS*, 2005.
- ◇ Workshop Leader for “Expanding Your Horizons Conference” for Girls in Math and Science, Swarthmore College, March 2006.
- ◇ Organizing Committee Member of FRG Workshop “Algebraic Geometry, Symplectic Geometry and Theoretical Physics: a conference celebrating the contribution of women researchers”, University of Pennsylvania, May 2005.
- ◇ American Mathematical Society Council Member-at-Large, 2000 – 2003.
- ◇ American Mathematical Society Committee on Education Member, 2000-2003.
- ◇ Committee member to draft Lecture Bureau proposal for Executive committee of AWM (Association for Women in Mathematics), Fall 2003.
- ◇ Organizer of AMS Education Committee Panel “Successfully Recruiting Math Majors”, Baltimore, January 2003.
- ◇ Organizer of the *Women in Science* seminar for the Institute for Advanced Study/PCMI Women’s program, May 2001.
- ◇ Honors examiner, Swarthmore College, Spring 2004 and 1996.
- ◇ Panel Member for “The Academic Job Search: Hiring from the Search Committee's Perspective”, University of Pennsylvania Career Services, September 1999.
- ◇ Instructor for MathCamp ‘99, (an international summer school for mathematically gifted high school students), University of Washington, July 1999.
- ◇ Panel Member for “Dividing the Pie: Research, Teaching, and Service Commitments at Academic Institutions”, IAS/Park City Mathematics Institute Women’s Program, Princeton, May 1999.
- ◇ Member of PhD Dissertation Committee of Jennifer Slimowitz, SUNY Stony Brook, May 1998.
- ◇ Introducer of the Association for Women in Mathematics Noether Lecturer, Dusa McDuff, at the Joint Mathematics Meetings in Baltimore, January 1998.
- ◇ Coorganizer with Y. Eliashberg of the Research Program for the Institute for Advanced Study/ Park City Mathematics Institute on Symplectic Geometry and Topology, 1997.
- ◇ Guest Lecturer for High School Teacher Program at the Institute for Advanced Study/Park City Mathematics Institute, July 1997.
- ◇ Graduate Program Coordinator and Lecturer for the Institute for Advanced Study/Park City Mathematics Institute Women’s Program on Symplectic Geometry, May 1997.

- ◇ Panelist for “Girls and Women in Science” Conference, Beloit College, Beloit, WI, April 1997.
- ◇ Contributor of article *The Compatibility of Research and a Liberal Arts College* to the AWM (Association for Women in Mathematics) newsletter, November-December, 1996.
- ◇ Mentor for Women in Algebraic Geometry Workshop, Berkeley, May 1993.

### **Professional Memberships**

- + American Mathematical Society
- + Association for Women in Mathematics
- + Mathematical Association of America

### **Bryn Mawr College Teaching**

- MATH B101: Calculus/Analytical Geometry I
- MATH B102: Calculus/Analytical Geometry II
- MATH B201: Multivariable Calculus
- MATH B203: Linear Algebra
- MATH B206: Transition to Higher Mathematics
- MATH B221: Introduction to Geometry and Topology: Knot Theory
- MATH B301: Real Analysis I
- MATH B302: Real Analysis II
- MATH B303: Abstract Algebra I
- MATH B304: Abstract Algebra II
- MATH B312: Topology
- MATH B315: Riemannian Geometry
- MATH B322/B522: Undergraduate/Graduate Complex Analysis
- MATH B398 and Math B399: Senior Conference
- MATH B525: Graduate Algebraic Topology
- MATH B530: Graduate Differential Topology

**Bryn Mawr College Service**

- \* STEMLA Mentor, 2023-2025.
- \* Co-PI for NSF S-STEM Grant: Building STEM Identity and Persistence Through STEM Pathway Mentorship, 2022-2025.
- \* Reunion Weekend Faculty Research Talk, 2022.
- \* Director for Graduate Group in Science and Mathematics (GGSM), 2019 – 2022.
- \* Bryn Mawr Representative to Mellon Tri-Co Committee, 2018 – 2022, Chair 2020-2022.
- \* Board of the Academic Honor System, 2020-2023.
- \* Department Chair, 2006 – 2009, 2017 – 2021.
- \* Associate Grand Marshal, 2019-2020.
- \* Outside Member on Computer Science Search for 2 TT and 1 CNTT positions: 2018-19, 2019-20.
- \* Park Math Art Display Coordinator, 2019 – present.
- \* Mentor for New Faculty (Andrew Gargiulo, Psychology), 2020.
- \* Organizer of Professional Development Activities for Graduate Students in Mathematics, Physics and Chemistry, 2011 – 2022.
- \* Faculty Advisor to Incoming Freshmen, 2006-2010, 2015, 2017-2020.  
Freshmen Pilot Advising, 2011 – 2012, 2014- 2015.
- \* Committee on Appointments, substitute member, Fall 2018.
- \* Director of Graduate Recruitment in Mathematics, 2012 – 2018.
- \* Panelist during New Faculty Orientation, August 2018.
- \* Host of International Students, 2011 – 2013, 2018.
- \* Mathematics Department Search Committees, 2017 (Chair), 2014, 2010.
- \* Faculty Representative to Board of Trustees, substitute for Spring 2017.
- \* Graduate Council 2015-2017, Chair 2016-2017.
- \* CA representative substitute for Cities Search, Fall 2016.



- \* Outside member to Physics Opportunity Search, Fall 2015.
- \* Committee on Appointments (CA), 2011 – 2015; Chair 2014 – 2015.
- \* CA representative on searches in: Art History, Biology, Chemistry (TT and CNTT), Philosophy, Physics, and Russian, (2011-2015).
- \* Director of Graduate Studies in Mathematics, 2003 – 2005, 2011 – 2012, Fall 2016.
- \* Chair of Chemistry Dissertation Committee, 2013 – 2019.
- \* Devised Plan and Timeline to meet Graduate Criteria, Fall 2011.
- \* Admissions Committee, 2008 – 2011.
- \* Clare Boothe Luce Scholar Mentor, 2007 – 2011.
- \* Endowed Lectures Committee, 2007 – 2010.
- \* HHMI (Howard Hughes Medical Institute) Post-doc in Mathematical Biology Search Committee, 2008 – 09.
- \* Department Representative for Teaching Certification of Maeve O’Hara, 2008.
- \* Haverford College Statistics Search Committee, 2006-07.
- \* Chair of Psychology Dissertation Committee, 2006 - 2011.
- \* Graduate Council, 2003-2005.
- \* Chair of Art History Dissertation Committee, 2003-2008.
- \* Science Librarian Search Committee, Spring 2000.
- \* Library Committee, 1997 - 2002.
- \* Quantitative Subcommittee of Curriculum Committee, 1997 – 2000.
- \* Member of Ad-hoc Transition Committee, 1998 - 1999.
- \* Lecturer for Mellon Summer Fellowship Program for Minorities, June 1998.
- \* Haverford College Mathematics Department Search Committee, 1997 - 98.
- \* Chair of Physics Dissertation Committee, 1997 – 2000.
- \* Mathematics Department Graduate Video Design, 2004.
- \* Redesigned Mathematics Department Webpage, 2000, 2003, 2008.

- \* Mathematical Career Talks Organizer, 1997-2005.
- \* Mathematics Colloquium Chair, 1995-1996, 1999-2001.