

————— (JOHN B. ETNYRE) —————

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Georgia Institute of Technology
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RESEARCH INTERESTS

GEOMETRIC TOPOLOGY: knot theory, three and four manifold theory

DIFFERENTIAL GEOMETRY: symplectic and contact geometry

DYNAMICAL SYSTEMS: fluid dynamics, non-holonomic dynamics

ACADEMIC DEGREES

PH.D MATHEMATICS	December 1996
<i>University of Texas, Austin, Texas</i>	
Thesis: " <i>Symplectic constructions on 4-manifolds</i> "; Advisor: Robert E. Gompf	
B.S. MATHEMATICS with honors	May 1989
<i>University of Texas, Austin, Texas</i>	

PROFESSIONAL POSITIONS HELD

PROFESSOR	2008–present
<i>Georgia Institute of Technology, Atlanta, Georgia</i>	
ASSOCIATE CHAIR FOR GRADUATE STUDIES	2012–2015
<i>Georgia Institute of Technology, Atlanta, Georgia</i>	
ASSOCIATE PROFESSOR	2005–2008
<i>Georgia Institute of Technology, Atlanta, Georgia</i>	
ASSOCIATE PROFESSOR	2005–2006
<i>University of Pennsylvania, Philadelphia Pennsylvania</i>	
ASSISTANT PROFESSOR	2001–2005
<i>University of Pennsylvania, Philadelphia Pennsylvania</i>	
ACTING ASSISTANT PROFESSOR/POSTDOC.	1997–2001
<i>Stanford University, Stanford, California</i>	
INSTRUCTOR	Spring 1997
<i>University of Texas, Austin, Texas</i>	
TEACHING ASSISTANT AND ASSISTANT INSTRUCTOR	1989-1996
<i>University of Texas, Austin, Texas</i>	

VISITING POSITIONS

MEMBER <i>Institute for Advanced Study, Princeton, New Jersey</i>	Winter 2016
MEMBER <i>Mittag-Leffler Institute, Djursholm, Sweden</i>	October 2015
MEMBER <i>Simons Center for Geometry and Physics, Stony Brook, New York</i>	May 12 - June 8 2013
MEMBER <i>Kavli Institute for Theoretical Physics, Santa Barbara, California</i>	July 2012
VISITOR <i>University of Texas, Austin, Texas</i>	Spring 2012
MEMBER <i>Mathematical Sciences Research Institute, Berkeley, California</i>	Fall 2009– Spring 2010
VISITOR <i>University of California, Santa Barbara, California</i>	Winter 2005
RESEARCH ASSISTANT <i>Max Plank Institute, Bonn, Germany</i>	Spring 1992

AWARDS AND HONORS

STUDENT RECOGNITION OF EXCELLENCE IN TEACHING: CLASS OF 1934 AWARD <i>Georgia Institute of Technology, Atlanta, GA</i>	2020
14TH ANNUAL WOLFE LECTURE <i>Rice University, Houston, TX</i>	2019
COLLEGE OF SCIENCES FACULTY MENTOR AWARD <i>Georgia Institute of Technology, Atlanta, GA</i>	2017
41ST ANNUAL SPRING LECTURE SERIES <i>University of Arkansas, Fayetteville, Arkansas</i>	April 2016
SIMONS FELLOWS IN MATHEMATICS <i>Simons Foundation</i>	2015-2016
FELLOW OF THE AMERICAN MATHEMATICAL SOCIETY <i>American Mathematical Society</i>	Fall 2012
30TH WILLIAM J. SPENCER LECTURE <i>Kansas State University, Manhattan, Kansas</i>	April 2008
CAREER GRANT <i>National Science Foundation</i>	2003–2008
INVITED ONE HOUR AMS ADDRESS <i>Courant Institute, New York, NY</i>	April 2003
NATIONAL SCIENCE FOUNDATION POSTDOC. FELLOWSHIP	1997–2001
REGENTS ENDOWED GRADUATE FELLOWSHIP	August 1990
PHI BETA KAPPA	April 1989

GRANTS

NATIONAL SCIENCE FOUNDATION GRANT	2019–2022
Title: “ <i>Submanifolds and Cobordisms in Contact and Symplectic Topology</i> ”	
NATIONAL SCIENCE FOUNDATION GRANT	2018–2023
Title: “ <i>RTG: Research Training in Geometry and Topology</i> ”	
(PI with Co-PI with Belegradek, Hom, Margalit, Wickelgren)	
NATIONAL SCIENCE FOUNDATION GRANT	2018
Title: “ <i>The Topology and Geometry of Low-dimensional Manifolds</i> ”	
NATIONAL SCIENCE FOUNDATION GRANT	2016–2019
Title: “ <i>Submanifolds and metrics in contact geometry</i> ”	
NATIONAL SCIENCE FOUNDATION GRANT	2015–2018
Title: “ <i>Tech Topology Conference III</i> ” (Co-PI with Margalit)	
NATIONAL SCIENCE FOUNDATION GRANT	2014
Title: “ <i>Contact Topology in Dimension Three and Higher</i> ”	
AMERICAN INSTITUTE OF MATHEMATICS SQUARE GRANT	2014–2015
Title: “ <i>Symplectic and Contact Geometry and Mapping Class Groups</i> ”	
NATIONAL SCIENCE FOUNDATION GRANT	2013–2017
Title: “ <i>EFRI-ODISSEI: Novel Perpetual Reconfigurable & Multi-Band</i> ”	
(co-PI with Tentzeris and Georgakopoulos)	
NATIONAL SCIENCE FOUNDATION GRANT	2013–2016
Title: “ <i>Contact Geometry in dimensions high and low</i> ”	
NATIONAL SCIENCE FOUNDATION GRANT	2012–2015
Title: “ <i>Tech Topology Conference II</i> ” (PI with Co-PI Margalit)	
NATIONAL SCIENCE FOUNDATION GRANT	Fall 2011
Title: “ <i>Tech Topology Conference</i> ” (Co-PI with Margalit)	
NATIONAL SCIENCE FOUNDATION GRANT	2008–2013
Title: “ <i>Contact Geometry, Contact Homology and Open Book Decompositions</i> ”	
NATIONAL SCIENCE FOUNDATION CAREER GRANT	2003–2008
Title: “ <i>Knot Theory and Dynamics in Contact Geometry</i> ”	
NSF FOCUSED RESEARCH GROUP GRANT	2003–2006
Title: “ <i>Holomorphic Curves and Low Dimensional Topology</i> ”	
(Co-PI with Eliashberg, Hsiang, Hutchings, Mrowka, Ozsvath, Stern, Szabo)	
NATIONAL SCIENCE FOUNDATION GRANT	2002–2005
Title: “ <i>Knot Theory and Dynamics in Contact Geometry</i> ”	
(replaced with CAREER grant in 2003)	
NATIONAL SCIENCE FOUNDATION GRANT	Fall 2000
for <i>contact geometry workshop</i> (Co-PI with Eliashberg and Cieliebak)	
AMERICAN INSTITUTE ON MATHEMATICS GRANT	Fall 2000
for <i>contact geometry workshop</i> (Co-PI with Eliashberg and Cieliebak)	

PAPERS

Publications

1. **NON-SIMPLICITY OF ISOCONTACT EMBEDDINGS IN ALL HIGHER DIMENSIONS**
Joint work with Roger Casals, To Appear in *GAGA*
2. **CONTACT SURGERY AND SYMPLECTIC CAPS**
Joint work with James Conway, To Appear in *Bulletin of the LMS*
3. **SYMPLECTIC FILLINGS, CONTACT SURGERIES, AND LAGRANGIAN DISKS**
Joint work with James Conway and Bulent Tosun, To Appear in *IMRN*
4. **TRANSVERSE UNIVERSAL LINKS**
Joint work with Roger Casals, *Proc. Sympos. Pure Math* **102** (2019), 43–55
5. **EMBEDDING ALL CONTACT 3–MANIFOLDS IN A FIXED CONTACT 5–MANIFOLD**
Joint work with Yanki Lekili, *Journal of the LMS (2)* **99** (2019), 52–68
6. **LEGENDRIAN SATELLITES**
Joint work with Vera Vértési, *IMRN* **2018 no. 23** (2018), 7241–7304
7. **BRAIDED EMBEDDINGS OF CONTACT 3-MANIFOLDS IN THE STANDARD CONTACT 5-SPHERE**
Joint work with Ryo Furukawa, *Journal of Topology* **10** (2017), 412–446
8. **SUTURED FLOER HOMOLOGY AND INVARIANTS OF LEGENDRIAN AND TRANSVERSE KNOTS**
Joint work with David Shea Vela-Vick and Rumén Zarev, *Geometry and Topology* **21** (2017), 1469–1582
9. **CORRIGENDUM TO: “ON GENERALIZING LUTZ TWISTS”**
Joint work with Dishant M Pancholi, *J. Lond. Math. Soc. (2)* **94** (2016), 662–665
10. **QUANTITATIVE DARBOUX THEOREMS IN CONTACT GEOMETRY**
Joint work with Rafal Komendarczyk and Patrick Massot, *Trans. Amer. Math. Soc* **368** (2016), 7845–7881
11. **MONOIDS IN THE MAPPING CLASS GROUP**
Joint work with Jeremy Van Horn-Morris, *Geometry and Topology Monographs* **19** (2015), 319–365
12. **THE ARC COMPLEX AND CONTACT GEOMETRY, NON-DESTABILIZABLE PLANAR OPEN BOOK DECOMPOSITIONS OF THE TIGHT CONTACT 3-SPHERE**
Joint work with Youlin Li, *IMRN* **2015** (2015), 1401–1420
13. **ADMISSIBLE TRANSVERSE SURGERY DOES NOT PRESERVE TIGHTNESS**
Joint work with John A Baldwin, *Math. Annalen* **357** (2013), 441–468
14. **KNOT CONTACT HOMOLOGY**
Joint work with Tobias Ekholm, Lenhard Ng and Michael G. Sullivan, *Geometry and Topology* **17** (2013), 975–1112
15. **ON KNOTS IN OVERTWISTED CONTACT STRUCTURES**
Journal of Quantum Topology **4** (2013), 229–264
16. **FILTRATIONS ON THE KNOT CONTACT HOMOLOGY OF TRANSVERSE KNOTS**
Joint work with Tobias Ekholm, Lenhard Ng and Michael G. Sullivan, *Math. Annalen* **355** (2013), 1561–1591

17. **LEGENDRIAN AND TRANSVERSE TWIST KNOTS**
Joint work with Lenhard Ng and Vera Vértési, *J. European Math. Soc* **15** (2013), 969–995
18. **LEGENDRIAN AND TRANSVERSE CABLES OF POSITIVE TORUS KNOTS**
Joint work with Douglas J. LaFountain and Bulent Tosun, *Geometry and Topology* **16** (2012), 1639–1689
19. **TIGHTNESS IN CONTACT METRIC 3-MANIFOLDS**
Joint work with Rafal Komendarczyk and Patrick Massot, *Invent. Math* **188** (2012), 621–657
20. **CABLING, CONTACT STRUCTURES AND MAPPING CLASS MONOIDS**
Joint work with Kenneth L Baker and Jeremy Van Horn-Morris, *J. Differential Geom* **90** (2012), 1–80
21. **RATIONAL LINKING AND CONTACT GEOMETRY**
Joint work with Kenneth L Baker, *Progr. Math* **296** (2012), 19–37
22. **FIBERED TRANSVERSE KNOTS AND THE BENNEQUIN BOUND**
Joint work with Jeremy Van Horn-Morris, *IMRN* **2011** (2011), 1483–1509
23. **PRODUCT STRUCTURES FOR LEGENDRIAN CONTACT HOMOLOGY**
Joint work with Gokhan Civan, Paul Koprowski, Joshua Sabloff and Alden Walker, *Math. Proc. Cambridge Philos. Soc* **150** (2011), 291–311
24. **ON GENERALIZED LUTZ TWISTS**
Joint work with Dishant M Pancholi, *Proc. of the LMS* **84** (2011), 670–688
25. **TORSION AND OPEN BOOK DECOMPOSITIONS**
Joint work with David Shea Vela-Vick, *IMRN* **2010** (2010), 4385–4398
26. **A NOTE ON THE SUPPORT NORM OF A CONTACT STRUCTURE**
Joint work with John A Baldwin, *Proc. Sympos. Pure Math* **82** (2009), 79–88
27. **A DUALITY EXACT SEQUENCE FOR LEGENDRIAN CONTACT HOMOLOGY**
Joint work with Tobias Ekholm and Joshua Sabloff, *Duke Math. J* **150** (2009), 1–75
28. **LECTURES ON CONTACT GEOMETRY IN LOW-DIMENSIONAL TOPOLOGY**
Low dimensional topology (IAS/Park City Math. Ser., 15), (2009), 229–264
29. **A NOTE ON STEIN FILLINGS OF CONTACT MANIFOLDS**
Joint work with Anar Akhmedov, Thomas E. Mark and Ivan Smith, *MRL* **15** (2008), 1127–1132
30. **ON CONTACT SURGERY**
Proc. Amer. Math. Soc **136** (2008), 3355–3362
31. **INVARIANTS OF CONTACT STRUCTURES FROM OPEN BOOKS**
Joint work with Burak Ozbagci, *Trans. Amer. Math. Soc* **260** (2008), 3133–3151
32. **CONTACT STRUCTURES ON 3-MANIFOLDS ARE DEFORMATIONS OF FOLIATIONS**
MRL **14** (2007), 775–779
33. **LEGENDRIAN CONTACT HOMOLOGY IN $P \times \mathbb{R}$**
Joint work with Tobias Ekholm and Michael G. Sullivan, *Trans. Amer. Math. Soc* **359** (2007), 3301–3335
34. **OPEN BOOKS AND PLUMBINGS**
Joint work with Burak Ozbagci, *IMRN* **2006** (2006), 1–17
35. **REALIZING 4-MANIFOLDS AS ACHIRAL LEFSCHETZ FIBRATIONS**
Joint work with Terry Fuller, *IMRN* **2006** (2006), 1–21
36. **CONTACT MANIFOLDS**
Encyclopedia of Mathematical Physics, eds. J.-P. Francoise, G.L. Naber and S.T. Tsou, Oxford: Elsevier, v. 1 (2006), 631–636

37. **LECTURES ON OPEN BOOK DECOMPOSITIONS AND CONTACT STRUCTURES**
Clay Math. Proc. 5 (the proceedings of the “Floer Homology, Gauge Theory, and Low Dimensional Topology Workshop”), (2006), 103–141
38. **INVARIANTS OF KNOTS, EMBEDDINGS AND IMMERSIONS VIA CONTACT GEOMETRY**
Joint work with Tobias Ekholm, *Fields Inst. Commun* **47** (2005), 77–96
39. **CABLING AND TRANSVERSE SIMPLICITY**
Joint work with Ko Honda, *Annals of Math* **162** (2005), 1305-1333
40. **GENERIC HYDRODYNAMIC INSTABILITY OF CURL EIGENFIELDS**
Joint work with Robert Ghrist, *SIAM J. Appl. Dyn. Syst* **4** (2005), no. 2, 377-390
41. **ORIENTATIONS IN LEGENDRIAN CONTACT HOMOLOGY AND EXACT LAGRANGIAN IMMERSIONS**
Joint work with Tobias Ekholm and Michael G. Sullivan, *IJM* **16** (2005), no. 5, 453-532
42. **LEGENDRIAN AND TRANSVERSAL KNOTS**
in the Handbook of Knot Theory (Elsevier B. V., Amsterdam), (2005), 105-185
43. **THE CONTACT HOMOLOGY OF LEGENDRIAN SUBMANIFOLDS IN \mathbb{R}^{2n+1}**
Joint work with Tobias Ekholm and Michael G. Sullivan, *J. Differential Geom* **71** (2005), no. 2, 177-305
44. **NON-ISOTOPIC LEGENDRIAN SUBMANIFOLDS IN \mathbb{R}^{2n+1}**
Joint work with Tobias Ekholm and Michael G. Sullivan, *J. Differential Geom* **71** (2005), no. 1, 85-128
45. **PLANAR OPEN BOOK DECOMPOSITIONS AND CONTACT STRUCTURES**
IMRN **2004** (2004), no. 79, 4255-4267
46. **ON SYMPLECTIC FILLINGS**
Algebr. Geom. Topol **4** (2004), 73-80
47. **ON CONNECTED SUMS AND LEGENDRIAN KNOTS**
Joint work with Ko Honda, *Adv. Math* **179** (2003), 59-74
48. **INTRODUCTORY LECTURES ON CONTACT GEOMETRY**
Proc. Sympos. Pure Math **71** (2003), 81-107
49. **PROBLEMS IN LOW DIMENSIONAL CONTACT TOPOLOGY**
Joint work with Lenhard Ng, *Proc. Sympos. Pure Math* **71** (2003), 337-357
50. **TIGHT CONTACT STRUCTURES AND ANOSOV FLOWS**
Joint work with Robert Ghrist, *Topol. and its Appl* **124** (2002), 211-219
51. **INVARIANTS OF LEGENDRIAN KNOTS AND COHERENT ORIENTATIONS**
Joint work with Lenhard Ng and Joshua Sabloff, *J. Sympl. Geom* **1** (2002), no. 2, 321-368
52. **CONTACT TOPOLOGY AND HYDRODYNAMICS II: SOLID TORI**
Joint work with Robert Ghrist, *Ergod. Th. & Dynam. Sys* **22** (2002), 819-833
53. **TIGHT CONTACT STRUCTURES WITH NO SYMPLECTIC FILLINGS**
Joint work with Ko Honda, *Invent. Math* **148** (2002), no. 3, 609-626
54. **ON SYMPLECTIC COBORDISMS**
Joint work with Ko Honda, *Math. Annalen* **323** (2002), no. 1, 31-39
55. **KNOTS AND CONTACT GEOMETRY I: TORUS KNOTS AND THE FIGURE EIGHT KNOT**
Joint work with Ko Honda, *J. Sympl. Geom* **1** (2001), no. 1, 63-120
56. **AN INDEX FOR CLOSED ORBITS IN BELTRAMI FIELDS**
Joint work with Robert Ghrist, *Phys. D* **159** (2001), no. 3-4, 180-189

57. **ERRATUM TO: TIGHT CONTACT STRUCTURES ON LENS SPACES**
Commun. Contemp. Math **3** (2001), no. 4, 649-652
58. **ON THE NONEXISTENCE OF TIGHT CONTACT STRUCTURES**
Joint work with Ko Honda, *Ann. of Math. (2)* **153** (2001), no. 3, 749-766
59. **TIGHT CONTACT STRUCTURES ON LENS SPACES**
Commun. in Contemp. Math **2** (2000), no. 4, 559-577
60. **CONTACT TOPOLOGY AND HYDRODYNAMICS III: KNOTTED ORBITS**
Joint work with Robert Ghrist, *Trans. Amer. Math. Soc* **352** (2000), 5781-5794
61. **CONTACT TOPOLOGY AND HYDRODYNAMICS I: BELTRAMI FIELDS AND THE SEIFERT CONJECTURE**
Joint work with Robert Ghrist, *Nonlinearity* **13** (2000), 441-458
62. **STRATIFIED INTEGRALS AND UNKNOTS IN INVICID FLOWS**
Joint work with Robert Ghrist, *Contemp. Math* **246** (1999), 99-111
63. **GRADIENT FLOWS WITHIN PLANE FIELDS**
Joint work with Robert Ghrist, *Comm. Math. Helvetici* **74** (1999), 507-529
64. **TIGHT CONTACT STRUCTURES VIA DYNAMICS**
Joint work with Robert Ghrist, *Proceedings of the AMS* **127** (1999), 3697-3706
65. **TRANSVERSAL TORUS KNOTS**
Geometry and Topology **3** (1999), 253-268
66. **SYMPLECTIC CONVEXITY IN LOW-DIMENSIONAL TOPOLOGY**
Topol. and its Appl **88** (1998), 3-25
67. **SMOOTH STRUCTURES ON COLLARABLE ENDS OF 4-MANIFOLDS**
Joint work with Zarko Bizaka, *Topology* **37** (1998), 461-467
68. **SYMPLECTIC CONSTRUCTIONS ON 4-MANIFOLDS**
Dissertation, University of Texas (December 1996), 1-92

PREPRINTS

1. **HOMOLOGY SPHERES BOUNDING ACYCLIC SMOOTH MANIFOLDS AND SYMPLECTIC FILLINGS**
Joint work with Bulent Tosun, Preprint 2020
2. **SYMPLECTIC HATS**
Joint work with Marco Golla, Preprint 2020
3. **ALL 3-MANIFOLDS ARE THE BOUNDARY OF EXOTIC 4-MANIFOLDS**
Joint work with Hyunki Min and Anubhav Mukherjee, Preprint 2019
4. **LEGENDRIAN CONTACT HOMOLOGY IN \mathbb{R}^3**
Joint work with Lenhard Ng, Preprint 2018
5. **CONTACT STRUCTURES ON 5-MANIFOLDS**
Preprint 2012

BOOKS

1. **INTERACTIONS BETWEEN LOW-DIMENSIONAL TOPOLOGY AND MAPPING CLASS GROUPS**
R. Inanc Baykur, John Etnyre and Ursula Hamenstädt (editors). G&T Monographs Vol. 19 (2015).
Proceedings of the conference with the same title, held at the Max Planck Institute in Bonn, Germany, in July 2013.

OTHER PUBLICATIONS

1. **EARLY CAREER: APPLYING FOR GRANTS: WHY AND HOW?**
Notices Amer. Math. Soc. **66** (2019) 860-861.
2. **EARLY CAREER: THE ART OF WRITING INTRODUCTIONS**
Notices Amer. Math. Soc. **66** (2019) 361-362.
3. **BULLETIN OF THE AMS REVIEW: "SURGERY ON CONTACT 3-MANIFOLDS AND STEIN SURFACES" BY BURAK OZBAGCI AND ANDRÁS I. STIPSICZ**
Bull. Amer. Math. Soc. **43** (2006) 429-434.

PROFESSIONAL SERVICE

Administrative

PRINCIPLE EDITOR

Algebraic and Geometric Topology **2007–Present**

EXTERNAL REVIEW COMMITTEE

Department of Mathematics, University at Buffalo **2016**

EDITOR

Algebraic and Geometric Topology **2000–2007**

BOARD OF DIRECTORS

Mathematical Sciences Publishers **2007–2011**

AMS COMMITTEES

Chair of Southeastern Section Program Committee **2010-2011**

Southeastern Section Program Committee **2009–2010**

NSF COMMITTEE

Committee of Visitors for the DMS **2010**

PANELIST

Simons Foundation **2012**

National Science Foundation Grant Panel **2004, 06, 07, 09, 14, 16, 20**

Organizational

LONG TERM WORKSHOPS (co-organizer)

- *MSRI Contact and Symplectic Geometry and Topology*
Mathematical Sciences Research Institute, Berkeley CA **2009-2010**
- *MSRI Summer Graduate Workshop*
Mathematical Sciences Research Institute, Berkeley CA **August 2-14, 2009**
- *IAS Holomorphic Curves Workshop*
Institute for Advanced Study, Princeton NJ **May-June 2005**
- *Low Dimensional Contact Geometry*
Stanford University and the American Mathematical Institute **Fall 2000**

CONFERENCES (co-organizer)

- *Interactions of gauge theory with contact and symplectic topology in dimensions 3 and 4 (virtual)*
Banff International Research Station, Banff Canada **June 8-12, 2020**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 6-8, 2019**
- *AMS Sectional Meeting: Geometry and Topology of Low Dimensional Manifolds*
Auburn, AL **March 15-17, 2019**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 7-9, 2018**
- *The topology and geometry of low dimensional manifolds*
University of Texas, Austin, TX **July 12-15, 2018**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 8-10, 2017**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 9-11, 2016**
- *Interactions of Gauge Theory with Contact and Symplectic Topology in Dimensions 3 and 4*
Banff International Research Station, Banff Canada **March 20-25, 2016**
- *Workshop on Flows, Foliations and Contact Structures*
Institute for Advanced Study, Princeton, NJ **December 7-11, 2015**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 4-6, 2015**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 5-7, 2014**
- *Workshop on Contact Geometry in Dimension Three and Higher*
University College London, London UK **July 28 to August 1, 2014**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 6-8, 2013**
- *Interactions between low dimensional topology and mapping class groups*
Max Planck Institute for Mathematics, Bonn Germany **July 1-5, 2013**
- *Interactions of gauge theory with contact and symplectic topology in dimensions 3 and 4*
Banff International Research Station, Banff Canada **March 24-29, 2013**
- *Tech Topology Conference*
Georgia Tech, Atlanta, GA **December 7-9, 2012**
- *AMS Sectional Meeting: Interactions of Geometry and Topology in Low Dimensions*

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| New Orleans, LA | October 13-14, 2012 |
| • <i>Contact topology in higher dimensions</i>
American Institute of Mathematics, Palo Alto, CA | May 21-25, 2012 |
| • <i>Tech Topology Conference</i>
Georgia Tech, Atlanta, GA | December 9-11, 2011 |
| • <i>AMS Sectional Meeting: Low-Dimensional Topology and Geometry</i>
Winston-Salem NC | September 24-25, 2011 |
| • <i>Interactions between contact symplectic topology and gauge theory in dimensions 3 and 4</i>
Banff International Research Station, Banff Canada | March 20-25, 2011 |
| • <i>AMS Sectional Meeting: Low Dimensional Topology and Contact and Symplectic Geometry</i>
Statesboro, GA | March 12-13, 2011 |
| • <i>Symplectic and Contact Topology and Dynamics: Puzzles and Horizons</i>
Mathematical Sciences Research Institute, Berkeley, CA | March 22-26, 2010 |
| • <i>Introductory Workshop: Symplectic and Contact Geometry</i>
Mathematical Sciences Research Institute, Berkeley, CA | August 17-21, 2009 |
| • <i>AMS Sectional Meeting: Low-dimensional topology and geometry</i>
Raleigh, NC | April 2009 |
| • <i>Interactions of Geometry and Topology in dimensions 3 and 4</i>
Banff International Research Station, Banff Canada | March 2009 |
| • <i>Holomorphic curves: algebraic structures and geometric application</i>
Stanford University, Stanford CA | August 2008 |
| • <i>Interactions of geometry and topology in low dimensions</i>
Banff International Research Station, Banff Canada | March 2007 |
| • <i>21st Annual Geometry Festival</i>
University of Pennsylvania, Philadelphia PA | March 2006 |
| • <i>Holomorphic Curves</i>
Institute for Advanced Study, Princeton NJ | June 2005 |
| • <i>Holomorphic Curves in Contact Geometry</i>
American Institute of Mathematics, Palo Alto CA | August 2003 |
| • <i>Frontiers of PDEs and Dynamical Systems</i>
Rutgers University, New Brunswick NJ | May 2003 |
| • <i>AMS Sectional Meeting Contact and Symplectic Geometry</i>
Courant Institute, New York NY | April 2003 |
| • <i>Symplectic and Contact Geometry</i>
Stanford University, Stanford CA | May 2001 |
| • <i>Low Dimensional Contact Geometry</i>
Stanford University, Stanford CA | May 2000 |

SEMINARS (organizer) —————

- | | |
|---|--------------------|
| • Mini-course series
Georgia Tech, Atlanta GA | Spring 2009 |
| • Contact homology (mini-course)
Georgia Tech, Atlanta GA | Fall 2008 |
| • 3-manifold Topology (mini-course)
Georgia Tech, Atlanta GA | Fall 2008 |
| • Convex Surfaces in Contact Geometry (mini-course)
Georgia Tech, Atlanta GA | Spring 2008 |

- Analysis in Topology and Geometry (mini-course)
Georgia Tech, Atlanta GA **Spring 2008**
 - Morse/Floer Theory (mini-course)
Georgia Tech, Atlanta GA **Spring 2007**
 - Symplectic Geometry (mini-course)
Georgia Tech, Atlanta GA **Fall 2006**
 - Kirby Calculus and 3-manifolds (mini-course)
University of Pennsylvania, Philadelphia PA **Summer 2005**
 - Heegaard-Floer Seminar (mini-course)
University of Pennsylvania, Philadelphia PA **Fall 2004**
 - Graduate Student Geometry Seminar
University of Pennsylvania, Philadelphia PA **2001–2003**
 - Contact Geometry Seminar
Stanford University, Stanford CA **Fall 2000**
 - Sheaf Theory Seminar (mini-course)
University of Texas, Austin TX **Summer 1994**
- SEMINARS** (co-organizer) _____
- Working Geometry-Topology Seminar
Georgia Tech, Atlanta GA **2006-Present**
 - Topology-Geometry Seminar
Georgia Tech, Atlanta GA **2005-Present**
 - Joint Emory-UGA-Ga Tech Topology Seminar
Georgia Tech, Atlanta GA **2005-2011**
 - Symplectic and Contact Geometry and Topology Research Seminar
Mathematical Sciences Research Institute, Berkeley CA **Spring 2010**
 - Quantitative Symplectic Topology
Mathematical Sciences Research Institute, Berkeley CA **Spring 2010**
 - Algebraic Geometry and Topology Learning Seminar
Georgia Tech, Atlanta GA **Fall 2009**
 - Colloquium
Georgia Tech, Atlanta GA **2005-2006**
 - Geometry and Topology Seminar
University of Pennsylvania, Philadelphia PA **2003–2004**
 - Symplectic Field Theory Seminar
Stanford University, Stanford CA **Fall 2000**
 - Low-dimensional Topology and Geometry Seminar
Stanford University, Stanford CA **1999-2000**
 - Foliations, Fibrations and Slitherings Seminar
Stanford University, Stanford CA **1998-99**
 - Seminar on Some Results of Taubes and Kotschick
University of Texas, Austin TX **Summer 1995**
 - Contact Geometry Seminar
University of Texas, Austin TX **Fall 1994**

Reviewer and Referee

REVIEWER

- *Math Reviews* (about 90 to date) 1997-2008
- *Bulletin of the AMS* 2006

REVIEWER OF GRANT PROPOSALS FOR

- National Science Foundation • Simons Foundation • Central European University • Czech Science Foundation • Deutscher Akademischer Austauschdienst (German Academic Exchange Service) • Engineering and Physical Sciences Research Council (UK grant agency) • European Union's European Research Council • L'Agence Nationale de la Recherche (French Research Agency) • National Science Center, Poland • Israel Science Foundation • National Research, Development and Innovation Office of Hungary • Netherlands Organization for Scientific Research • Portuguese Foundation for Science and Technology (FCT) • Swiss National Science Foundation • Scientific and Technological Research Council of Turkey • National Research Foundation South Africa • National Science Foundation, Georgia

REVIEWER OF BOOK PROPOSALS FOR

- American Mathematical Society • Birkhäuser • Cambridge University Press • CRC Press • Taylor & Francis Group • Springer-Verlag

REFeree

- Acta Mathematica Sinica • Advances in Mathematics • AIMS Mathematics • Algebraic and Geometric Topology • American Journal of Mathematics • Analysis and Mathematical Physics • Annali della Scuola Normale Superiore di Pisa • Annals of Mathematics • Annales de l'Institut Fourier • Annales Polonici Mathematici • Annales Scientifiques de l'Ecole Normale Supérieure • Archiv der Mathematik • Arkiv för Matematik • Arnold Mathematical Journal • Asian Journal of Mathematics • Bulletin of the London Mathematical Society • Canadian Mathematical Bulletin • Commentarii Mathematici Helveticii • Communications in Analysis and Geometry • Communications in Contemporary Mathematics • Communications in Mathematical Physics • Compositio Mathematica • Constructive Approximation • Differential Geometry and its Application • Duke Mathematics Journal • Ergodic Theory and Dynamical Systems • Expositiones Mathematicae • Forum of Mathematics, Sigma • Fundamenta Mathematicae • Geometriae Dedicata • Geometric and Functional Analysis • Geometry & Topology • Houston Journal of Mathematics • International Journal of Mathematics and Mathematical Sciences • International Journal of Mathematics • International Mathematics Research Notes • Inventiones mathematicae • Involve, a Journal of Mathematics • Journal für die reine und angewandte Mathematik • Journal of Differential Equations • Journal of Differential Geometry • Journal of Geometry • Journal of Geometry and Physics • Journal of Graph Theory • Journal of Knot Theory and its Ramifications • Journal of Mathematical Physics • Journal of Symplectic Geometry • Journal of the American Mathematical Society • Journal of the London Mathematical Society • Journal of the Ramanujan Mathematical Society • Journal of Mathematical Sciences (the University of Tokyo) • Journal of Topology and Analysis • Journal of Topology • Journal of Topology and its Applications • Mathematica Japonica • Mathematical Proceedings of the Cambridge Philosophical Society • Mathematical Research Letters • Mathematische Annalen • Michigan Journal of Mathematics • Nonlinearity • Pacific Journal of Mathematics • Proceedings A of the Royal Society • Proceedings of the American Mathematical Society • Proceedings of the London Mathematical So-

ciety • Proceedings – Mathematical Sciences (Indian Academy of Sciences) • Quantum Topology • Rocky Mountain Journal of Mathematics • Topology • Topology and its application • Transactions of the American Mathematical Society • various conference proceedings

————— **Departmental Committees** —————

GA TECH

Graduate Faculty Council (Institute)	2019-2021
Graduate Committee	2019-2021
Hiring Committee	2019-2020
Salary and Awards Committee (Chair 2017-19)	2017-2019
External Awards Committee (College of Sciences)	2016-2018
Hiring Committee	2016-2017
Space Task Force	2016-2017
Comprehensive Exam Committee: Topology	2014-2018
Graduate Committee (ex officio)	2012-2015
Chair 5 Year Review/Reappointment Committee	2014
Faculty Advisory Committee	2011-2013
Salary and Awards Committee	2010-2012
Senior Promotion and Tenure Committee	2010-2011
Strategic Hiring Plan Committee (Chair)	2009-2010
Teaching Load Committee	2009
Hiring Committee (Chair 2007-09)	2007-09
Comprehensive Exam Committee: Algebra	2006-2007, 2009-2010
Junior Promotion and Tenure (Chair 2008-10)	2006-10
Computer Committee	2006-08
Research Subcommittee for promotion of Mohammad Ghomi	2006
Colloquium Committee	2005-06
Research Subcommittee for reappointment of Igor Belagradek	2005

U PENN

TA Training	2001-05
Math Major Advising	2001-05
Masters Advising	2003-05
Graduate Admissions	2002-03
Graduate Advising	2001-02

STUDENT SUPERVISION

PHD STUDENTS

ECE GÜLŞAH ÇOLAK (Bulent Ecevit University)	Current
ALAN DIAZ (Ga Tech)	Current
SURENA HOZOORI (Ga Tech)	Current
SUDIPTA KOLAY (Ga Tech)	Current

ANUBHAV MUKHERJEE (Ga Tech)	Current
HYUNKI MIN (Ga Tech)	Current
AGNIVA ROY (Ga Tech)	Current
ANDREW MCCULLOUGH (Ga Tech)	Summer 2018
Thesis: Legendrian large cables and new phenomena for non-uniform thick knots	
Placement: Georgia Tech Research Institute, Smyrna, GA	
JAMES CONWAY (Ga Tech)	Summer 2016
Thesis: Transverse surgery on knots in contact three-manifolds	
Placement: Postdoctoral fellow, University of California, Berkeley, Berkeley, CA	
AMEY KALOTI (Ga Tech)	Summer 2014
Thesis: Stein fillings of contact structures supported by planar open books	
Placement: Instructor, University of Iowa, Iowa City, IA	
MEREDITH CASEY (Ga Tech)	Fall 2013
Thesis: Branched Covers of Contact Manifolds	
Placement: Instructor, University of Colorado, Colorado Springs, CO	
BULENT TOSUN (Ga Tech)	Summer 2012
Thesis: Legendrian and transverse knots and their invariants	
Placement: CIRGET, Montreal, Canada and Postdoc, Max Plank Institute, Bonn, Germany	
DAVID SHEA VICK (U. Penn)	Spring 2009
Thesis: Applications of Ozsváth-Szabó invariants to contact geometry	
Placement: NSF Postdoctoral fellowship, Columbia University, New York, NY	
SINEM ONARAN (CELIK) (METU, co-advisor Korkmaz)	Spring 2009
Thesis: Invariants of Legendrian knots from open book decompositions	
Placement: Leibniz Fellowship at Oberwolfach, Germany	
ELENA PAVELESCU (BOGDAN) (U. Penn)	Spring 2008
Thesis: Braids and open book decomposition	
Placement: Postdoctoral fellow, Rice University, Houston, TX	
STEPHAN SCHÖNENBERGER (U. Penn)	Summer 2005
Thesis: Planar open books and symplectic fillings	
Placement: Winterthur Insurance, Zurich, Switzerland	
JAMES TRIPP (U. Penn)	Spring 2005
Thesis: Contact structures on open 3-manifolds	
Placement: NSA	

MASTERS STUDENTS

GÖKHAN ELMAS (Ga Tech)	Spring 2016
AMEY KALOTI (Ga Tech)	Spring 2008

MASTERS THESIS COMMITTEES

BAUYRZHAN YERZHIGIT (Nazarbayev University, Kazakhstan)	Spring 2019
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PHD DEFENSE COMMITTEES

• Moses Koppendrayner PhD, (University of Miami) Summer 2019 • Andrew McCullough PhD, (Ga Tech) Summer 2019 • Shane Scott PhD, (Ga Tech) Summer 2018 • Alberto Cavallo (PhD, Central European University) May 2018 • James Conway (PhD, Ga Tech) Summer 2016 • Julia Bennett (PhD, University of Texas) September 2015 • Thomas Guyard (PhD Rapporteurs, Université de Nantes) September 2015 • Jing Hu (PhD, Ga Tech) May 2015 • Laura Starkston (PhD, University of

Texas) March 2015 • Amey Kaloti (PhD, Ga Tech) Summer 2014 • Meredith Casey (PhD, Ga Tech) Fall 2013 • Farbod Shokrieh (PhD, Ga Tech) June 2013 • Bulent Tosun (PhD, Ga Tech) Summer 2012 • Anh Tran (PhD, Ga Tech) April 2012 • Jonathan Williams (PhD, University of Texas) April 2010 • David Shea Vela-Vick (PhD, U Penn) Spring 2009 • Senim Onaran (PhD, METU) Spring 2009 • Baptiste Chantraine (PhD, Université du Québec à Montréal) November 2009 • Elena Pavelescu (PhD, U Penn) Spring 2008 • Michael Kettner (PhD, Ga Tech) August 2007 • Jeremy Van Horn-Morris (PhD, University of Texas) July 2007 • Rafal Komendarczyk (PhD, Ga Tech) November 2005 • Stephan Schönenberger (PhD, U Penn) Summer 2005 • James Trip (PhD, U Penn) Spring 2005 • Yongzhong Xu (PhD, Rutgers) April 2005 • Madeeha Khalid (PhD, U Penn) May 2003

ORAL EXAM COMMITTEE (Ga Tech)

• Agniva Roy (2020) • Tao Yu (2020) • Surena Hozoori (2018) • Hyunki Min (2018) • Chase Michael Leibenguth (2017, Aerospace) • Andrew McCullough (2016) • Bharath Hebbe Madhusudhana (2016, Physics) • Shane Scott (2015) • Jing Hu (2013) • Ye Luo (2013) • Alan Diaz (2013) • Jamie Conway (2013) • Bulent Tosun (2012) • Hyunshik Shin (2011) • Farbod Shokrieh (2011) • Rebecca Winarski (2011) • Thao Vuong (2011) • Meredith Casey (2010) • Amey Kolati (2010) • Anh Tran (2009) • James Krysiak (2009) • Michael Burkhart (2006) • Ian Palmer (2006)

ORAL EXAM COMMITTEE (U. Penn)

• David Shea Vick (2006) • Andrei Pavelescu (2005) • Armin Holschbach (2005) • Michael McDuffee (2005) • Elena Bogdan (2005) • David Fithian (2005) • Corey Hoelscher (2004) • Stephan Schönenberger (2003) • James Tripp (2003)

GRADUATE TEACHING MENTOR (Ga Tech)

• Ashley Bentley (Spring 2013) • Jing Hu (Spring 2013) • Donald Sampson (Spring 2013) • Rebecca Winarski (Spring 2013) • Anh Tran (Summer 2011) • Anh Tran (Summer 2010) • Ian Palmer (Spring 2009)

RESEARCH EXPERIENCES FOR UNDERGRADUATE PROJECTS

BRANDON COSGROVE AND ANDREW SACK (Ga Tech) Summer 2018

Project: Knot colorings and braided embeddings

GOKHAN CIVAN (Ga Tech) Summer 2006

Project: Invariants derived from the contact homology differential graded algebra

TEACHING

AWARDS

Georgia Institute of Technology, Center for Teaching and Learning

Student Recognition of Excellence in Teaching: Class of 1934 Award **Fall 2019**

Georgia Institute of Technology, Center for the Enhancement of Teaching and Learning

"Thank a teacher" certificate **Fall 2007, Spring 2008, Spring 2009, Fall 2010, Spring 2011**

University of Pennsylvania, Department of Mathematics

Good Teaching Award **Spring 2004, Fall 2004**

GRADUATE CLASSES

- 2020:** • *Reading Course:* 3-manifolds — Monica Flamann, Yaghoub Rahimi, Thomas Rodewald, Weizhe Shen • *Algebraic Topology* • *Reading Course:* Mores theory and handlebodies — Sally Collins, Monica Flamann, Caleb Partin, Yaghoub Rahimi, Sidhanth Raman, and Thomas Rodewald
- 2019:** • *Reading Course:* Seiberg-Witten Theory — Monica Flamann • *Reading Course:* 3-manifold topology — Thomas Rodewald • *Reading Course:* Hodge theory and holomorphic curves — Monica Flamann, Surena Hozoori, Sudipta Kolay, Hyunki Min, Anubhav Mukherjee, Sidhanth Raman, Xingyu Zhu
- 2018:** • *Symplectic Geometry* • *Differential Topology* • *Algebraic Topology* • *Reading Course:* Surgery and handlebodies — Surena Hozoori, Hyunki Min, Anubhav Mukherjee • *Reading Course:* Convex surface theory — Surena Hozoori, Anubhav Mukherjee, Agniva Roy, Tao Yu, and Hongyi Zhou
- 2017:** • *Differential Topology* • *Reading Course:* Surgery theory — Katz Ian, Shiyu Liang, Thomas Rodewald, Hunter Vallejos | Hyperbolic Geometry — Surena Hozoori, Sudipta Kolay, Andrew Mccullough, Hyunki Min, Anubhav Mukherjee
- 2016:** • *Reading Course:* Convex Surfaces — Surena Hozoori, Sudipta Kolay, Andrew Mccullough, Hyunki Min
- 2015:** • *Algebraic Topology* • *Reading Courses:* Morse Theory and Handlebody Decompositions — Sudipta Kolay, Andrew Mccullough | Heegaard Floer Theory and Contact Geometry — Benjamin Ide, Sudipta Kolay, Andrew Mccullough, Eric Sabo | Contact Geometry — Sudipta Kolay, Andrew Mccullough
- 2014:** • *Differential Topology* • *Differential Geometry*
- 2013:** • *Reading Courses:* Open book decompositions — Jamie Conway | Knot contact homology — Amey Kaloti, Jamie Conway
- 2012:** • *Reading Course:* Contact Geometry — Jamie Conway
- 2011:** • *Functional Analysis* • *Reading Courses:* Morse Theory and Handlebodies — Jamie Conway | Open book decompositions — Alan Diaz | Open books, Heegaard diagrams and knot homology — Bulent Tosun
- 2010:** • *Reading Courses:* Spectral Sequences and Characteristic Classes — Alan Diaz, Yi Huang, and Kangkang Wang | Khovanov homology — Alan Diaz | Heegaard Floer homology — Bulent Tosun
- 2009:** • *Algebraic Topology I* • *Introduction to Geometry and Topology II* • *Reading Courses:* Contact Geometry — Alan Diaz and Amey Kaloti | Algebraic topology — Hyunshik Shin | Heegaard-Floer theory — Amey Kaloti | Legendrian Knots — Anh Tran | Ng knot invariants — Anh Tran | 3-manifold topology — Meredith Casey | Contact structures on Seifert fibered spaces — Amey Kaloti | Khovanov homology — Alan Diaz | Legendrian knots — Bulent Tosun
- 2008:** • *Introduction to Geometry and Topology I* • *Algebraic Topology II* • *Reading Course:* Hodge Theory — Alan Diaz and Amey Kaloti
- 2007:** • *Algebra II* • *4-manifold topology* • *Algebraic Topology I* • *Reading Course:* Differential Topology — James Krysiak and Anh Tran
- 2006:** • *Algebra I* • *Reading Course:* Riemannian and Contact geometry — Rafal Komendarczyk
- 2004:** • *Algebraic Topology I* • *Contact Geometry II* • *Reading Courses:* Confoliations — James Tripp | Knot Theory — Michael McDuff
- 2003:** • *Contact Geometry I* • *3-manifold topology II* • *Reading Course:* Holomorphic Curves I and II — Stephan Schönenberger
- 2002:** • *3-manifold topology I* • *Geometry of Curves and Surfaces* • *Topology* • *Reading Course:* Symplectic topology — Sang Seon Kim

UNDERGRADUATE CLASSES

- 2019:** • *Algebraic Topology* • *Analysis II* • *Differential Geometry*

2018: • *Reading course:* 4-manifold topology — DeVon Ingram
2017: • *Algebraic Topology* • *Analysis II*
2016: • *Introduction to Topology* • *Differential Geometry*
2013: • *Differential Geometry*
2012: • *Introduction to Topology* • *Calculus III*
2011: • *Analysis II*
2010: • *Analysis I* • *Topology*
2009: • *Topology*
2008: • *Calculus III (Vector Calculus)*
2007: • *Reading course:* Introduction to Topology — Nicole Larsen and AJ Friend
2006: • *Calculus III (Vector Calculus)* • *Algebraic Topology* • *Reading courses:* Topics in point set topology — Justin Michael | Riemannian geometry — Ehsan Najafabadi
2005: • *Honors Differential Equations*
2004: • *Calculus IV* (Spring and Fall)
2002: • *Calculus I*
2001: • *Calculus IV* • *Differential Equations*
2000: • *Differential Equations* • *Multi-Variable Calculus*
1998: • *Multi-Variable Calculus* • *Calculus* • *Linear Algebra*
Prior to 1998: • *Calculus* • *Elementary Mathematics Education Course* • *Pre-Calculus*

TALKS

Lecture Series/Mini Courses

Handlebody theory , Park City Mathematics Institutes	July, 2019
Submanifolds in contact topology , University of Arkansas	April, 2016
Contact structures and Legendrian submanifolds , University of Arkansas	Mar, 2013
Braids and Contact Geometry , University of Seville	June, 2011
Introduction to Contact Topology , MSRI	Aug, 2009
Contact geometry and low-dimensional topology , Park City Mathematics Institute	July, 2006
Open Books and Contact Geometry , Alfred Renyi Institute	June, 2004
Legendrian Knots , University of Munich	Feb, 2003
Introduction To Contact Geometry , Rutgers University	Fall, 2002

Invited Conference Talks

Frontiers in Floer homology , Boston College	Jul, 2019
Moab Topology Conference , Utah State University	May, 2019
Moab Topology Conference II , Utah State University	May, 2019
AMS Regional Meeting Special Session , University of Arkansas	Oct, 2018
UCLA Topology workshop 2018 , UCLA	Jan, 2018
Georgia International Topology Conference , University of Georgia	May, 2017

AMS Regional Meeting Special Session, North Carolina State University	Nov, 2016
Georgia Topology Conference (lightning talk), University of Georgia	May, 2016
AMS Regional Meeting Special Session, University of Georgia	Mar, 2016
AMS Regional Meeting Special Session, University of Georgia	Mar, 2016
Augmentations and Legendrians at the IAS, Institute for Advanced Study	Feb, 2016
Princeton Low-Dimensional Topology Workshop, Princeton University	June, 2015
AMS Regional Meeting Special Session, University of Nevada, Las Vegas	Apr, 2015
Spring 2015 Redbud conference, Oklahoma State University	April, 2015
Spring 2015 Redbud conference, Oklahoma State University	April, 2015
AMS Regional Meeting Special Session, Georgetown University	Mar, 2015
Joint Mathematics Meetings Special Session, San Antonio Convention Center	Jan, 2015
Combinatorial Link Homology Theories, Braids, and Contact Geometry, ICERM	Aug, 2014
Combinatorial Link Homology Theories, Braids, and Contact Geometry, ICERM	Aug, 2014
AMS Regional Meeting Special Session, Washington University	Oct, 2013
AMS Regional Meeting Special Session, Temple University	Oct, 2013
Higher-dimensional contact topology, Nantes University	Sept, 2013
Low-dimensional Topology after Floer, Centre de recherches mathématiques	July, 2013
Interactions between low dimensional topology and mapping class groups, Max Planck Institute	July, 2013
Spring Redbud Geometry and Topology Conference, University of Arkansas	Mar, 2013
Symplectic and Low Dimensional Topologies in Interaction,, Simons Center	Dec, 2012
AMS Regional Meeting Special Session, Tulane University	Oct, 2012
Knotted Fields, Kavli Institute for Theoretical Physics	July, 2012
Knotted Fields, Kavli Institute for Theoretical Physics	July, 2012
Georgia Topology Conference, University of Georgia	May, 2012
Geometry Festival, Duke University	April, 2012
Clifford Lectures, Tulane University	Mar, 2012
Trimester on Contact and Symplectic Topology Conference, Nantes University	June, 2011
Ninth Annual Graduate Student Topology and Geometry Conference, Michigan State University	Apr, 2011
AMS Regional Meeting Special Session, Georgia Southern U.	Mar, 2011
AMS Regional Meeting Special Session, Joint Math. Meetings	Jan, 2011
AMS Regional Meeting Special Session, UCLA	Oct, 2010
Knots, Contact Geometry and Floer Homology, University of Tokyo	May, 2010
Pacific NW Geometry Seminar/Bay Area Differential Geometry Seminar, Stanford University	Feb, 2010
Introductory Workshop: SCGT Program, MSRI	Aug, 2009
Georgia International Topology Conference (Introductory talks), University of Georgia	May, 2009
AMS Regional Meeting Special Session, NC State University	Apr, 2009
Conference on Topology and Geometry of Knots, OK State University	Mar, 2009
Holomorphic curves: algebraic structures and geometric application, Stanford University	Aug, 2008
Prospectives in Analysis, Geometry and Topology, Stockholm University	May, 2008
Illinois-Indiana Symplectic Geometry Conference, Purdue University at Indianapolis	Mar, 2008
Knotting mathematics and art, U of South Florida	Nov, 2007
Workshop on Symplectic Field Theory, University of Colima	Jan, 2007
34th Texas Topology and Geometry Conference, University of Texas	Oct, 2005
Great Lakes Geometry Conference, Perimeter Institute for Theoretical Physics	April, 2005
Georgia Topology Conference, University of Georgia	June, 2004
Floer Homology, Gauge Theory, and Low Dimensional Topology, Alfred Renyi Institute	June, 2004
Geometry and Topology of Manifolds, McMaster University	May, 2004

Cornell Topology Festival(also Colloquium), Cornell University	May, 2004
Topology in and around dimension three, BIRS	Sep, 2003
Georgia Topology Conference, University of Georgia	June, 2003
Contact Topology in Montreal, University of Quebec	Apr, 2003
AMS Invited Address, Courant Institute	Apr, 2003
XVIIIth Annual Geometry Festival: in Honor of P. Griffiths, Duke University	Mar, 2003
Asymptotic Topology, Foliations, and Dynamical Systems Conference, University of Munich	Jul, 2002
AMS Regional Meeting Special Session, Georgia Tech	Mar, 2002
Oberwolfach 4-manifolds Conference, Oberwolfach	Jul, 2001
Georgia International Topology Conference, University of Georgia	May, 2001
Bay Area Joint Symplectic Geometry Seminar, Stanford University	Mar, 2001
Bay Area Joint Symplectic Geometry Seminar, Stanford University	Dec, 2000
Georgia Topology Conference, University of Georgia	Jul, 2000
AMS Regional Meeting Special Session, UC, Santa Barbara	Mar, 2000
Bay Area Topology Seminar, UC, Berkeley	Feb, 2000
West Coast Topology Conference, Stanford University	Apr, 1999
AMS/MAA Joint National Meeting, San Antonio	Jan, 1999
AMS Regional Meeting Special Session, Kansas State	Mar, 1998
Bay Area Joint Symplectic Geometry Seminar, UC, Berkeley	Dec, 1997
AMS Regional Meeting Special Session, Georgia Tech	Oct, 1997
Dehn Surgery Conference, University of Arkansas	Mar, 1997
4-Manifold Workshop, MSRI	Jan, 1997
Georgia Topology Conference, University of Georgia	June, 1996

Colloquia

University of Texas, Dallas, Dallas, TX	Feb, 2020
Rice University, Houston, TX	Feb, 2019
University of Oregon, Eugene, OR	May, 2018
Rutgers University, New Brunswick, NJ	Apr, 2018
University of Alabama, Tuscaloosa, AL	Jan, 2018
Louisiana State University, Baton Rouge, LA	Sept, 2017
University of Massachusetts, Amherst, Amherst, MA	Mar, 2017
Georgia Southern University, Statesboro, GA	Jan, 2017
Columbia University, New York City, NY	Feb, 2016
University of Iowa, Iowa City, IA	May, 2015
University of Rochester, Rochester, NY	Mar, 2015
Georgia Southern University, Statesboro, GA	Feb, 2015
University of Pittsburgh, Pittsburgh, PA	Jan, 2015
Rice University, Houston, TX	Oct, 2014
Princeton University, Princeton, NJ	Mar, 2014
Columbus State University, Columbus, GA	Mar, 2014
Washington University, St. Louis, St. Louis, MO	May, 2013
Boston College, Boston MA	May, 2012
University of Virginia, Charlottesville, VA	Sept, 2011
Brandeis University, Boston, MA	April, 2011

Columbia University, New York, NY	April, 2011
University of Minnesota, Minneapolis, MN	Nov, 2010
Tulane University, New Orleans, LA	Oct, 2010
University of Arkansas, Fayetteville, AR	April, 2009
Kansas State University, Manhattan, KS	April, 2008
Louisiana State University, Baton Rouge, LA	Oct, 2007
Rice University, Houston, TX	Mar, 2007
University of Massachusetts, Amherst, MA	Mar, 2006
California State University, Northridge, Northridge, CA	Mar, 2005
University of California, Riverside, Riverside, CA	Mar, 2005
Georgia Institute of Technology, Atlanta, GA	Feb, 2005
Rice University, Houston, TX	Oct, 2004
Cornell University (also Conference Talk), Ithaca, NY	May, 2004
University of California, San Diego, La Jolla, CA	Feb, 2004
University of Southern California, Los Angeles, CA	Jan, 2004
George Washington University, Washington D.C.	Oct, 2003
Dartmouth University, Hanover, NH	Oct, 2003
SUNY Buffalo, Buffalo, NY	Mar, 2003
Rice University, Houston, TX	Oct, 2002
Osaka University, Osaka, Japan	May, 2002
George Washington University, Washington D.C.	Mar, 2002
University of Georgia, Athens, GA	Mar, 2002
Bryn Mawr, Philadelphia, PA	Oct, 2001
Emory University, Atlanta, GA	Feb, 2001
University of Pennsylvania, Philadelphia, PA	Oct, 2000
Washington University, St. Louis, MO	Feb, 2000
Santa Clara University, Santa Clara, CA	Oct, 1999
Tulane University, New Orleans, LA	Jan, 1999
Auburn University, Auburn, AL	Jan, 1999
University of Nevada, Reno, NV	Feb, 1998
Emory University, Atlanta, GA	Oct, 1997

Seminar Talks

2020 _____
•University of Texas, Dallas, Dallas, TX
2019 _____
•University of Georgia, Athens, GA •Miami University, Miami, FL
2018 _____
•University of Oregon, Eugene, OR •Columbia University, New York City, NY •University of Alabama, Tuscaloosa, AL
2017 _____
•Louisiana State University, Baton Rouge, LA •University of Massachusetts, Amherst, Amherst, MA
•University of Los Angeles, Los Angeles, CA •University of Georgia, Athens, GA
2016 _____

•Bryn Mawr College, Bryn Mawr, PA •Bryn Mawr College, Bryn Mawr, PA •CUNY, New York City, NY •Columbia University, New York City, NY •State University of New York, Stony Brook, NY

2015 _____

•Mittag-Leffler Institut, Djursholm, Sweden •King's College London, London, UK •University of Iowa, Iowa City, IA •University of Rochester, Rochester, NY

2014 _____

•Princeton University, Princeton, NJ •MIT, Boston, MA

2013 _____

•Simons Center, Stony Brook, NY

2012 _____

•Boston College, Boston MA •Louisiana State University, Baton Rouge, LA •Rice University, Houston, TX •University of Texas, Austin, TX

2011 _____

•Duke University, Durham, NC •University of Virginia, Charlottesville, VA •Imperial College London, London, UK •Cambridge University, Cambridge, UK •Michigan State University, East Lansing, MI •Columbia University, New York, NY •University of Pennsylvania, Philadelphia, PA

2010 _____

•University of Minnesota, Minneapolis, MN •MSRI, Berkeley, CA •MSRI, Berkeley, CA •University of California, Davis, Davis, CA

2009 _____

•University of Arkansas, Fayetteville, AR •Emory University, Atlanta, GA •University of Pennsylvania, Philadelphia, PA •Columbia University, New York, NY •Columbia University, New York, NY

2008 _____

•Rice University, Houston, TX •University of Munich, Munich, Germany •Kansas State University, Manhattan, KS •California Institute of Technology, Pasadena, CA

2007 _____

•Louisiana State University, Baton Rouge, LA •Louisiana State University, Baton Rouge, LA •Michigan State University, East Lansing, MI •Michigan State University, East Lansing, MI •Michigan State University, East Lansing, MI •University of Texas, Austin, TX •Columbia University, New York City, NY •Rice University, Houston, TX •University of Virginia, Charlottesville, VA

2006 _____

•Emory University, Atlanta, GA •University of Georgia, Athens, GA

2005 _____

•University of Georgia, Athens, GA •University of Georgia, Athens, GA •Rutgers University Analysis Seminar, New Brunswick, NJ •California Institute of Technology, Pasadena, CA •University of California, Santa Barbara, Santa Barbara, CA •University of California, Berkeley, Berkeley, CA •Stanford University, Palo Alto, CA •Columbia University, New York, NY •University of California, Santa Barbara, Santa Barbara, CA

2004 _____

•Courant Institute, NYC, NY •Columbia University, NYC, NY

2003 _____

•University of Virginia, Charlottesville, VA •Dartmouth University, Hanover, NH •Courant Institute, NYC, NY •University of California, Berkeley, CA •SUNY Buffalo, Buffalo, NY •Georgia Technical Institute, Atlanta, GA •Princeton University, Princeton, NJ

2002

•Columbia University, NYC, NY •Columbia University, NYC, NY •Rutgers University, New Brunswick, NJ •Tokyo Institute of Technology, Tokyo, Japan •University of Tokyo, Tokyo, Japan •University of Tokyo, Tokyo, Japan •Johns Hopkins University, Baltimore, MD •University of Georgia, Athens, GA •Princeton University, Princeton, NJ

2001

•University of California, Santa Barbara, CA •Rutgers University, New Brunswick, NJ •University of California, Berkeley, CA

2000

•U Penn, Philadelphia, PA •U Penn, Philadelphia, PA •State University of New York, Stony Brook, NY •University of California, Riverside, CA •Columbia University, NYC, NY •New York University, NYC, NY •Massachusetts Institute of Technology, Cambridge, MA •University of Illinois, Urbana, IL

1999

•University of California, Berkeley, CA •University of California, Berkeley, CA •University of Texas, Austin, TX •University of Texas, Austin, TX •Rice University, Houston, TX •Tulane University, New Orleans, LA •University of Georgia, Athens, GA •Duke University, Durham, NC •Duke University, Durham, NC

1998

•University of California, Berkeley, CA •University of California, Santa Barbara, CA

1997

•University of California, Irvine, CA •University of California, Berkeley, CA •University of Georgia, Athens, GA •State University of New York, Stony Brook, NY

1996

•Rice University, Houston, TX