

VITA – Dusa McDuff

BIRTHDATE: October 18, 1945

BIRTHPLACE: London, United Kingdom

DEGREES: B. Sc (Hon), University of Edinburgh, Scotland, 1967

Ph.D., University of Cambridge, England, 1971

PROFESSIONAL EXPERIENCE:

S.R.C. Postdoctoral Fellowship, University of Cambridge, England, 1970-1972

Lecturer, University of York, England, 1972-1976

Lecturer, University of Warwick, England, 1976–1978

Assistant Professor, SUNY at Stony Brook, 1978–1980

Associate Professor, SUNY at Stony Brook, 1980–1984.

Professor, SUNY at Stony Brook, 1984–1998

Distinguished Professor, SUNY at Stony Brook, 1998 – 2008.

Professor Emerita, SUNY at Stony Brook, 2008–

Helen Lyttle Kimmel '42 Chair in Mathematics, Barnard College, 2007 –

VISITING POSITIONS:

Assistant Professor, Department of Mathematics, Massachusetts Institute of Technology, 1974-1975

Member, Institute for Advanced Study, Princeton, Spring 1976, Fall 1977

Member, Mathematical Sciences Research Institute, Berkeley, Fall 1988

Professor, Mathematics Department, University of California at Berkeley, Fall 1993 Member,

Newton Institute, Cambridge UK, Fall 1994

Visiting Professor, Mathematics Department, Harvard University, Fall 2000

Visiting Professor, Courant Institute, NYU, Feb–March 2001

Member, Institute for Advanced Study, Spring 2002.

Eisenbud Chair at Mathematical Sciences Research Institute, Berkeley, CA, Jan - May 2010.

SELECTED HONORS AND GRANTS:

Co-principal and principal investigator on NSF summer research grants, 1978–

Ruth Lyttle Satter Prize, 1991

Fellow of the Royal Society, 1994

Fellow of the American Academy of Arts and Sciences, 1995

Honorary Fellowship of Girton College, Cambridge, 1997.

D. Sc. (Hon) University of Edinburgh, 1997.

AWM Noether Lecturer, Jan 1998.

Member of National Academy of Sciences, 1999.

London Mathematical Society Hardy Lecturer, 1999.

D. Sc. (Hon) University of York, 2000.

Rademacher Lecturer, University of Pennsylvania, Spring 2001

Andrejewski Lecturer, University of Gottingen, April 2001

Cairns Lecturer at University of Illinois, Champaign-Urbana, Nov 2004

Honorary Member of London Mathematical Society (2007)

Corresponding member of the Royal Society of Edinburgh (2008)

Honorary Degree from University of Louis Pasteur, Strasbourg (June 2008)

London Mathematical Society Senior Berwick Prize (2010)
Member of the American Philosophical Society, (2013).
Honorary Degree from University of St. Andrews, Scotland, June 2014.
Honorary Fellow of King’s College, Cambridge, 2015.
Honorary Degree from University Pierre et Marie Curie, Paris, Oct 2016.
Honorary Degree from Warwick University, Jan 2017.
(with D. Salamon) Steele prize for Mathematical Exposition, American Mathematical Society, Jan 2017

RECENT SERVICE TO THE MATHEMATICAL COMMUNITY:

Sloan Fellowship Committee for Mathematics, 2005–2011
NSF Review Panel on Research Training Groups (RTG program), Jan 2006
Selection committee for the Abel Prize, 2006-8
Selection committee for the Michler Prize, 2006–2010
NSF MPS Advisory Committee, 2006-9
NSF DMS Committee of Visitors, Feb 2007
AMS Colloquium Publication committee (2007–10)
Oct 08 participated in *Enhancing Diversity in Graduate Mathematics Programs*,
MSRI workshop, Berkeley.
Review committee for Mathematics Department, University of Maryland, March 09.
Advisory Committee for NCUWM: Nebraska Conference for undergraduate women in
Mathematics, meeting March 2010.
Organizing Committee for the MSRI program of Symplectic and Contact Topology and
Geometry, Aug 2009 - May 2010; also helped organize various related workshops
(Summer Graduate Program, Introductory Workshop, Connections for Women,
March 2010 workshop).
On the Visiting Committee for the EPSRC International Review of Mathematics in the UK,
December 2010.
Member of MSP Scientific Advisory Board of Simons Foundation, 2011–.
Director of the Women in Mathematics program at IAS, Princeton, 2013–
on International Scientific Committee of CRM, Montreal, (2013–17)
on the National Academy of Sciences Class Membership Committee (Section 1), 2013 and
2016
on the Class I membership committee of the American Philosophical Society, Oct 2015–
on Scientific Advisory Committee of Fields Institute, Toronto, 2016–

PROFESSIONAL SERVICES in Barnard College:

advising first year students and mathematics majors;
Fall 2009 - now: Organize and co-teach BC2001: *Perspectives in Mathematics*
faculty advisor for the Barnard-Columbia AWM chapter.
help with the Vera Joseph scholars program.

RECENT SELECTED INVITED ADDRESSES:

Jan 09: workshop talk at Oberwolfach, Germany:
Toric manifolds in symplectic geometry.
Feb 09: colloquium talk in Vanderbilt:
“Introduction to groups of symplectomorphisms”.

- Feb 09: seminar talk in Oxford, UK: on “Some 6-dimensional S^1 -manifolds”.
- Feb 09: Dame Mary Cartwright lecture to London Mathematical Society, London, UK, on “Embedding Symplectic ellipsoids”
- Mar 09: Talk to Columbia undergraduate mathematics club: What is symplectic geometry – from complex numbers to the camel.
- April 09: Talk to undergraduates at Fordham: Some interesting continued fractions;
- April 09: talk at Atiyah80: Edinburgh, UK, on “Embedding Symplectic ellipsoids”
- May 09: talk at International conference on Topology, Georgia;
Displacing Lagrangian manifolds via probes
- Jun 09 Takagi lectures, Hokkaido, Japan:
Embedding symplectic ellipsoids and continued fractions.
- Jun 09 Kyoto, Japan: “Displacing Lagrangian submanifolds via probes.”
- Aug 09: Lecture course at Graduate Student Workshop, MSRI on “Embedding problems in 4-dimensional symplectic manifolds;”
- Aug 09: The first two lectures in the Introductory Workshop for SCGT program at MSRI: Introduction and Overview.
- Oct 09: NY Area Symplectic Topology seminar, Columbia University:
“Symplectic Embeddings of ellipsoids and continued fractions.”
- Oct 09: Colloquium at Princeton University, plus lunchtime talk to graduate students:
on “Symplectic Embeddings of ellipsoids and continued fractions.”
- Nov 09: Horton–Jacobs lecturer at UT Austin: Colloquium talk on “Symplectic embeddings of ellipsoids and continued fractions”;
seminar talk and lunch with graduate students.
- Jan 10: MAA invited address at AMS/MAA Winter Joint meetings (on embedding ellipsoids), San Francisco 2010
- Jan 10: Talk in *Connections for Women* workshop at MSRI: Introduction to Floer theory.
- Feb 10: “Symplectic embeddings and continued fractions”, Stanford colloquium.
- Feb 10: talk at MSRI on Monodromy in Hamiltonian Floer theory;
- April 10: Colloquium talk at U Wisconsin: lunch meeting with women faculty/graduate students “Symplectic embeddings and continued fractions”. Also a talk at the Great Lakes Geometry conference “The Topology of symplectic toric manifolds”
- April 26: MSRI Evans Lecture at UC Berkeley: “Symplectic embeddings and continued fractions”; dinner meeting with women faculty/graduate students, April 30.
- April 21, 29: two talks at MSRI: on rational and ruled manifolds, and on the virtual moduli cycle.
- Jun 2010: Leipzig: Ladyshenskaya Lecturer; “Symplectic embeddings and continued fractions”.
- October 2010: Purdue University, colloquium and seminar “Symplectic embeddings and continued fractions”; Constructing the Virtual Moduli cycle”.
- Nov 2010: ETH Zürich: “The Hofer conjecture on Symplectic embeddings”.
- March 2011: Lecture to Columbia Undergraduate Mathematics Society, “Symplectic embeddings and continued fractions”.
- April 2011: Millersville University, PA, “Symplectic embeddings and continued fractions”.

- May 2011: Colloquium and seminar at the University of Montreal.
- September 2011: Association of Iranian Mathematicians international conference, Rafsanjan, Iran: invited address: “Embedding problems in Symplectic geometry,”
- September 2011: Assoc Women in Mathematics 40th anniversary, Brown University: “Introduction to Symplectic geometry,”
- October 2011: IAS, Princeton: “Embedding problems in Symplectic geometry,”
- November 2011: MSRI Chern Centennial Conference: Embedding problems in Symplectic geometry
- November 2011: University of British Columbia, Vancouver: colloquium “Embedding problems in Symplectic geometry”, and seminar: Displacing Lagrangian tori with probes.
- Mar 2012: Stanford University: Inaugural Beatrice Yormark Distinguished Lecture: “Embedding problems in Symplectic geometry”.
- Mar 2012: Institute for Advanced Study: two lectures on Kuranishi structures
- Sep 2012: Invited lecture at Regional meeting of AMS, RIT, Rochester; organized special session
- Jan 2013: Colloquium talk at Swarthmore College
- Feb 2013: Gave Whiteman lectures at USC, Los Angeles: Embedding problems in Symplectic topology
- Feb 2013: Colloquium talk at Bronx Community College
- Mar 2013: Seminar Talk at MIT, Boston: on Kuranishi atlases
- April 2013: 30 minute talk in Mathematics and Simplicity Conference, CUNY. Also participated in panel discussion
- May 2013: invited talk at Symplectic Topology workshop, CRM, Montreal, Canada
- May 2013: invited talk at Arbeitstagung, Bonn, Germany
- June 2013: invited talk at D-Days, ETH, Zurich, Switzerland
- June 2013: keynote speaker at Young Researchers in Mathematics 2013, ICRM, Edinburgh, Scotland
- Aug 2013: two talks in special sessions of Mathematical Congress of the Americas MCA2013, Guanajuato, Mexico
- Aug 2013: Conference in honor of Gelfand. MIT: “Symplectic embeddings and continued fractions”;
- Jan 2014: AMS Winter meetings in Baltimore: The colloquium lectures on Symplectic Topology today. Three lectures, plus lecture notes.
- Feb 2014: University of Miami: a public lecture on “Symplectic embeddings and continued fractions”;
- and a seminar on “Symplectic Topology today”
- Feb 2014: University of North Carolina: Symplectic Topology today”
- March 2014: Simons Center Workshop, Stony Brook: a minicourse on Kuranishi Atlases.
- June 2014: Thurston Memorial Conference, Cornell: Thurston’s work in contact and symplectic topology.
- Sept 2014: Clay conference, Oxford UK, lecture on Kuranishi atlases
- March 2015: Bowen Lectures, series of 3 lectures on Symplectic topology today, Berkeley, CA
- April 2015: AWM meeting, Maryland: short lecture

July 2015: Introductory lecture at IHES Summer School, Paris: Transversality problems in symplectic geometry.

Mar 2016: Colloquium at University of Washington, Seattle, on Symplectic Embeddings, and met with female graduate students and postdocs.

Oct 2016: Colloquium at Université Pierre at Marie Curie, Paris: ‘Symplectic Topology today’

Jan 2017: Colloquium at University of Warwick, UK: ‘Symplectic Topology today’

Jan 2017: Lecture at Oslo University, Norway, ‘ J -holomorphic curves in Symplectic Topology’

July 2017: Hedrick lectures at the MAA Mathfest. ‘Symplectic Topology today’

THESIS STUDENTS:

Francisca Mascaro (1980); Ira Moskowitz (1983); Alan Horwitz (1988); Eleonora Ciriza (1989); Brian Kasper (1990); Lisa Traynor (1992); Alan McRae (1994); Gang Liu and Simon Richard (1995); Wladyslaw Lorek (1996); Jennifer Slimowitz (1998); Leonor Godinho, Haydee Herrera–Guzman, Luisa Stelling (1999); Silvia Anjos (2000); Olga Buse (2002); Mark Barsamian (2002); Eduardo Gonzalez (2005); Zhigang Han (2006); Je-wei (Alex) Chen (2007); Emiko Dupont (2007); Yakov Savelyev (2008); Michael Chance (2009); Mark Branson (2010); Andre Carvalho (2013); Andrew Fanoe (2013); Robert Castellano (2016).

PUBLICATIONS

1. A countable infinity of II_1 -factors, *Ann. Math.*, 90 (1969), 361-371.
2. Uncountably many II_1 -factors, *Ann. Math.*, 90 (1969), 372-377.
3. Central Sequences and the hyperfinite factor, *Proc. L.M.S.*(3) 21 (1970), 443-461.
4. On the structure of II_1 factors, *Uspekhi Math Nauk* 25 (1970), 29-51 (in Russian).
5. (with E. Hewitt), Certain pathological maximal ideals in algebras of operators, *Math Sbornik*, (NS) 83 (125) (1970), 527-546 (in Russian).
6. On residual sequences in a II_1 factors, *J. London M.S.* (2) 3 (1971), 273-280.
7. Configuration spaces of positive and negative particles, *Topology* 14 (1975), 91-107.
8. (with G. Segal), Homology fibrations and the “Group-Completion” theorem, *Invent. Math.*, 31 (1976), 279-284.
9. Configuration spaces, in K-theory and operator algebras, Athens, Georgia (1975), ed. Morrel and Singer, Springer Lecture Notes 575 (1977).
10. On the lattice of normal subgroups of the group of automorphisms of an open manifold, *Journal of the London Math. Soc.*, (2) 18 (1978), 353-364.
11. Foliations and monoids of embeddings, in *Geometric Topology*, ed. J. Cantrell, Academic Press (1979), 429-444.
12. On the classifying spaces of discrete monoids, *Topology* 18 (1979), 313-320.
13. The homology of some groups of diffeomorphisms, *Comm. Math. Helv.*, 55 (1980), 97-129.
14. On the group of volume preserving diffeomorphisms of \mathbf{R}^n , *Trans. Amer. Math. Soc.*, 261 (1980), 103-113.
15. C^1 -minimal subsets of the circle, *Ann. Inst. Fourier* (1981), 177-193.
16. On groups of volume-preserving diffeomorphisms and foliations with transverse volume form, *Proc. London Math. Soc.* (3) 43 (1981), 295-320.
17. On tangle complexes and volume preserving diffeomorphisms of open 3-manifolds, *Proc. London Math. Soc.*, (3) 43 (1981) 321-333.

18. Some canonical cohomology classes of groups of volume preserving diffeomorphisms, *Trans. Amer. Math. Soc.*, 275 (1983) 345-356.
19. Local homology of groups of volume-preserving diffeomorphisms, I, *Ann. Ec. Norm. Sup.*, 15 (1982) 609-648.
20. Local homology of groups of volume-preserving diffeomorphisms, II, *Comm. Math. Helv.*, 58 (1983), 135-165.
21. Local homology of groups of volume-preserving diffeomorphisms, III, *Ann. Ec. Norm. Sup.*, 16 (1983), 529-540.
22. (with P. de la Harpe), Acyclic groups of automorphisms, *Comm. Math. Helv.*, 58 (1983), 48-71.
23. Symplectic diffeomorphisms and the flux homomorphism, *Inventiones Math.*, 77 (1984), 353-366.
24. Examples of simply-connected symplectic non-Kählerian manifolds, *Journal of Diff. Geom.*, 20 (1984), 267-277.
25. Remarks on the homotopy type of groups of symplectic diffeomorphisms, *Proc. Amer. Math. Soc.*, 94 (1985), 348-352.
26. Applications of convex integration to symplectic and contact geometry, *Ann. Math. Inst. Fourier* 37 (1987) 107-133.
27. Examples of symplectic structures, *Invent. Math.*, 89 (1987), 13-36.
28. Symplectic structures on \mathbf{R}^n , in *Seminaire Sud-Rhodanien de Geometrie, Lyon (1986)*, Travaux en Cours, Hermann Paris (1987).
29. The symplectic structures of Kähler manifolds of non-positive curvature, *J. Diff. Geom.* 28 (1988), 467-475.
30. The moment map for circle actions on symplectic manifolds, *Journal of Geometry and Physics* 5, (1988), 149-160.
31. Rational and Ruled Symplectic 4-manifolds, in *Proceedings of conference in Durham, England*, ed. Donaldson and Thomas, CUP, Cambridge, (1990).
32. The Structure of Rational and Ruled Symplectic 4-manifolds, *Journal A.M.S.* 3 (1990), 679-712. Erratum *Journ AMS* 5 (1992), 987-988.
33. Elliptic Methods in Symplectic Geometry, *Bull. A.M.S.* 23, (1990), 311-358.
34. Blow ups and symplectic embeddings in dimension 4, *Topology*, 30 (1991), 409-421.
35. The Local Behavior of Holomorphic curves in almost complex 4-manifolds, *Journ. Diff. Geo.*, 34 (1991), 143-164.
36. Symplectic manifolds with Contact-Type boundaries, *Inventiones Math.*, 103 (1991) 651-671.
37. Symplectic 4-manifolds, in *Proceedings of ICM, Kyoto, 1990*, Springer Verlag (1991).
38. Immersed spheres in symplectic 4-manifolds, *l'Annales de L'Inst Fourier*, 42 (1991), 369-392.
39. Singularities of J-holomorphic curves in almost complex 4-manifolds, *Journ. Geom. Analysis* 3 (1992), 249-266.
40. Remarks on the uniqueness of symplectic blowing up, in *Symplectic Geometry* ed. Salamon, LMS Lecture Notes #192, Cambridge Univ. Press (1993), 157-168.
41. (with L. Traynor) The 4-dimensional symplectic camel and related results, in *Symplectic Geometry* ed. Salamon, LMS Lecture Notes #192, Cambridge Univ. Press (1993), 169-182.
42. Notes on Ruled symplectic 4-manifolds, *Trans. Amer. Math. Soc.* 345 (1994), 623-639.

43. Singularities and positivity of intersections of J-holomorphic curves, in *Holomorphic Curves in Symplectic Geometry* ed. Audin and Lafontaine, Progress in Math 117, Birkhäuser (1994), 191-216.
44. (with L. Polterovich) Symplectic Packings and Algebraic Geometry, *Invent Math* 115 (1994) 405-429.
45. An Irrational ruled symplectic 4-manifold, in *Floer Memorial volume*, ed. Hofer et. al., Birkhäuser (1995) 545-554.
46. (with F. Lalonde) The Geometry of Symplectic Energy, *Annals of Math.* 141 (1995), 349-371.
47. (with F. Lalonde) Hofer's L^∞ -geometry: energy and stability of Hamiltonian flows I, *Invent. Math.* 122, (1995), 1-33.
48. (with F. Lalonde) Hofer's L^∞ -geometry: energy and stability of Hamiltonian flows II, *Invent. Math.* 122, (1995), 35-69.
49. (with F. Lalonde) Local Non-Squeezing theorems and stability, *Geometric and Functional Analysis*, 5 (1995), 364-386.
50. (with F. Lalonde) The classification of ruled symplectic 4-manifolds, *Math. Res. Letters* 3 (1996) 769-778.
51. (with F. Lalonde) J-curves and the classification of rational and ruled symplectic 4-manifolds, in *Contact and Symplectic Geometry*, Publications of the Newton Institute, ed. Thomas, Camb. Univ. Press (1996) 3-42.
52. (with M. Symington) Associativity properties of the symplectic Sum, *Math. Research Letters* 3 (1996) 591-608.
53. (with D. Salamon) A survey of symplectic manifolds with $b^+ = 1$, *Turkish Journal of Mathematics*, 20 (1996) 47-60.
54. (with F. Lalonde) Positive paths in the linear symplectic group, Arnold–Gelfand Seminar, *Geometry and Singularity Theory*, Birkhäuser (1997) 361-388.
55. Lectures on Gromov invariants for symplectic 4-manifolds, in *Gauge Theory and Symplectic Geometry* ed Hurtubise and Lalonde, NATO–ASI Series, Kluwer, Dordrecht/Boston (1997).
56. From Symplectic deformation to isotopy, in *Proceedings of Irvine Conference 1996*, ed Stern. International Press. (1998)
57. (with Lalonde and Polterovich) On the Flux conjectures, *CRM Proceedings and Lecture Notes*, vol 15 (1998), 69-85.
58. (with Lalonde and Polterovich) Topological Rigidity of Hamiltonian loops and quantum homology, *Inventiones Math.* **135**, 369–385 (1999)
59. Symplectic Structures - a new approach to geometry, Notices A.M.S. 45 (1998), 952–960.
60. Recent Developments in Symplectic topology, in *Progress in Mathematics vol 169, Proceedings of European Congress, Budapest 1996*, 28–42, Birkhäuser Verlag. (1998).
61. Introduction to Symplectic Topology, in *IAS/Park City Math. Series*, vol. 7 ed Eliashberg, AMS (1998).
62. Fibrations in Symplectic Topology, *Documenta Mathematica*, Extra Volume ICM 1998, Vol I, 339–357.
63. Symplectic topology and Capacities, in *Prospects in Mathematics* ed Rossi, American Mathematical Society (1999)
64. The virtual moduli cycle, *Amer. Math. Soc. Transl.* (2) **196** (1999), 73 – 102.

65. Almost complex structures on $S^2 \times S^2$, SG/9808008, *Duke Math. Journal*, **101** (2000), 135–177.
66. Quantum homology of Fibrations over S^2 , SG/9905092 *International Journal of Mathematics*, **11**, (2000), 665–721.
67. (with M. Abreu) Topology of symplectomorphism groups of rational ruled surfaces, SG/9910057, *Journ. of Amer. Math. Soc.* **13**, (2000) 971–1009.
68. Symplectomorphism Groups and Almost Complex Structures, preprint (2000), SG/0010274, *Enseignement Math.*, **38** (2001), 1–30.
- 69 (with F. Lalonde) Cohomological properties of ruled symplectic structures, SG/0010277, *Mirror symmetry and string geometry*, ed Hoker, Phong, Yau, CRM Proceedings and Lecture Notes, Amer Math Soc. (2001)
70. (with J. Slimowitz) Hofer–Zehnder capacity and length minimizing Hamiltonian paths, SG/0101085, *Geom. Topol.* **5** (2001), 799–830.
71. Geometric variants of the Hofer norm, SG/0103089, *Journal of Symplectic Geometry*, **1** (2002), 197–252.
72. (with F. Lalonde) Symplectic structures on fiber bundles, SG/0010275, *Topology* **42** (2003), 309–347. Erratum *Topology* **44** (2005), 1301–1303.
73. Lectures on groups of symplectomorphisms, SG/0201032, *Rendiconti di Circolo di Mat, Palermo Serie II Suppl.* **72** (2004), 43–78.
74. A survey of topological properties of groups of symplectomorphisms, to appear in *Topology, Geometry and Quantum Field Theory*, Proceedings of 2002 Symposium in honor of G.B. Segal, ed U.L. Tillmann, LMS Lecture Notes 308, Cambridge Univ. Press (2004), 173–193.
75. (with S. Tolman) Topological properties of Hamiltonian circle actions, SG/0404338, *International Mathematical Research Papers* Volume 2006 (2006). article ID 72826, 77 pages
76. (with J. Kedra) Homotopy properties of Hamiltonian group actions, SG/0404539, *Geometry and Topology* **9** (2005), 121–162
77. Symplectomorphism groups and quantum cohomology, survey article, in *The Unity of Mathematics: in honor of the 90th birthday of I.M. Gelfand*, Birkhäuser, Boston (2005).
78. (with Sue Tolman) On nearly semifree circle actions, SG/0503467.
79. Enlarging the Hamiltonian group, *Journal of Symplectic Geometry* **3** (2005), 481–530.
80. Floer Theory and Low dimensional Topology, *Bull. Amer. Math. Soc.* **43** (2006), 25–42.
81. Branched manifolds, groupoids, and multisections, *Journal of Symplectic Geometry* **4** (2007) 259–315.
- 82: The symplectomorphism group of a blow up, SG/0610142, *Geom. Dedicata* **132** (2008), 1–29
83. Hamiltonian S^1 -manifolds are uniruled, *Duke Math. Journ.* **146** (2009) 449–507
84. Loops in the Hamiltonian group: a survey, *Symplectic topology and measure preserving dynamical systems, 127–148, Contemp. Math.* **512** AMS, Providence (2010).
- 85 Comparing absolute and relative Gromov–Witten invariants, arxiv:math/0809.3534.
86. Symplectic embeddings of 4-dimensional ellipsoids, *Journ. of Topology* (2009) **2**, 1–22
87. Some 6 dimensional Hamiltonian S^1 -manifolds, *Journ. of Topology* (2009) **2**, 589–623.
88. (with S. Tolman) Polytopes with mass linear functions, Part I, arxiv:math/0807.0900 *IMRN* (2009) doi: 10.1093/imrn/rnp179

89. Symplectic embeddings and continued fractions: a survey, *Jpn. J. Math.* **4** (2009), 121–139.
90. Monodromy in Hamiltonian Floer theory, *Comment. Math. Helv.* **85** (2010), 95–133.
91. What is symplectic geometry? European Women in Mathematics, Proceedings of 13th General Meeting 2007, ed. Hobbs and Paycha, World Scientific, p 33-54 (2010)
92. Displacing Lagrangian toric fibers via probes, *Low-dimensional and symplectic topology*, 131-160, *Proc. Sympos. Pure Math.* **82**, AMS, Providence (2011).
- 93 (with F. Schlenk) *The embedding capacity of 4-dimensional symplectic ellipsoids*, arXiv:0912.0532, *Annals of Mathematics* (2) **175** (2012), no. 3, 1191–1282.
94. The Topology of Symplectic Toric manifolds, *Geom. Topol.* **15** (2011) no.1, 145-190.
95. The Hofer conjecture on embedding symplectic ellipsoids, *J. Differential Geom.* **88** (2011), 519–532.
96. (with S. Tolman) Polytopes with mass linear functions II, the four dimensional case, arxiv:math/1106.1623, *Int. Math. Res. Not. IMRN* (2013) no 15. 3509–3599.
- 97 (with J. Latschev and F. Schlenk) The Gromov width of 4-dimensional tori, arXiv:1111.6566, *Geom. and Topol.* **27** (2013), 2813–2853
98. (with M. Abreu and M. S. Borman) Displacing Lagrangian toric fibers by extended probes, *Alg. Geom. Topol.* **14** no 2, (2014), 687-752.
99. Symplectic embeddings of 4-dimensional ellipsoids: erratum, accepted for publication by *Journal of Topology*
100. (with Emmanuel Opshtein) Nongeneric J-holomorphic curves and singular inflation, *Algebraic Geometry and Topology*, 5-1 (2015), 231–286. DOI 10.2140/agt.2015.15.231
101. Strict orbifold atlases and weighted branched manifolds, accepted for publication in *J. Symp. Top.*, arXiv:1506.05350.
102. (with K. Wehrheim) The topology of Kuranishi atlases, accepted for publication in *Proceedings of the London Mathematical Society*, arXiv:1508.01844
103. (with K. Wehrheim) The fundamental class of smooth Kuranishi atlases with trivial isotropy, accepted for publication in *Journal of Topology and Algebra* arXiv:1508.01560.
104. (with K. Wehrheim) Smooth Kuranishi atlases with isotropy, accepted for publication in *Geometry and Topology* arXiv:1508.01556.
105. Notes on Kuranishi atlases, (139 pages) arXiv:1411.4306. to appear in a SCGT book.

BOOKS

1. (with D. Salamon) "J-holomorphic curves and Quantum Cohomology", University Lecture Series, Amer. Math. Soc. (1994).
2. (with D. Salamon) "Introduction to Symplectic Topology", Oxford Univ. Press, (1995), 2nd edition (1998), 3rd edition in press.
3. (with D. Salamon) *J-holomorphic curves and Symplectic Topology*, Colloq. Publications AMS, (2004), 2nd edition (2012)

BOOK REVIEW *Partial Differential Relations* by M. Gromov, *Bull. of Amer. Math. Soc.* 18 (1988), 214-220.

Articles

1. Ruth Lyttle Satter award acceptance speech, *Notice of the Amer. Math. Soc* **38** (1991), no. 3, 185–187.

2. Advice to a Young Mathematician, in *Princeton Companion to Mathematics* ed. T. Gowers, J. Barrow-Green, and I. Leader, PUP (2008), p 1007-8.
3. Introduction to book for my father's Centennial.