Curriculum Vitae¹ STEVEN HURDER

Work Address:

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EDUCATION

- University of Illinois, Urbana-Champaign, Illinois
 - Degree: Ph.D. in Mathematics, May 1980
 - Thesis Title: Dual Homotopy Invariants of G-Foliations
 - Thesis Advisor: Franz W. Kamber
- Rice University, Houston, Texas
 - Degree: B.A. in Mathematics, May 1975

UNIVERSITY POSITIONS HELD

Academic Appointments

- Professor Emeritus, University of Illinois at Chicago, 2012-present
- Director of Undergraduate Studies, University of Illinois at Chicago, 2007–2011
- Director of Graduate Studies, University of Illinois at Chicago, 2004–2006
- Professor, University of Illinois at Chicago, 1990–2012
- Ulam Visiting Professor, University of Colorado, 1988–89
- Member, Institute for Advanced Study, Princeton, Fall 1987
- Associate Professor, University of Illinois at Chicago, 1986-89
- Assistant Professor, University of Illinois at Chicago, 1985–86
- Member, Mathematical Sciences Research Institute, Berkeley, 1983–85
- Instructor, Princeton University, 1981-83
- Member, Institute for Advanced Study, Princeton, 1980–81

Visiting

- Professor Invité, Université de Strassbourg, France, October/November 2012
- Professor Invité, Université de Nice, France, 2012
- Visitor, Centre de Recerca Matemàtica, Barcelona, Spain, April–May 2010
- Professor Invité, Institut Henri Poincaré, Paris, France, January-March 2007
- Invited Professor, Chuo University, Tokyo, Japan, September 2003
- Professor Invité, Université de Bourgogne, Dijon, France, March 1999
- Professor Invité, École Normale Superieure, Paris, June 1998
- Professor Invité, Université de Toulouse, France, March 1996
- Visitor, Universidade de Santiago de Compostela, Spain, September 1994
- Invited Professor, University of Tokyo, Japan, April 1994
- Member, Institut Hautes Etudes Scientifique, Bures-sur-Yvette, February, 1994
- Professor Invité, Université de Lyon I, February 1994
- Visitor, Humbolt University, Berlin, June 1993
- Visitor, Universidade de Santiago de Compostela, Spain, May 1992
- Member, Mathematical Sciences Research Institute, Berkeley, April 1992
- Member, Institut Hautes Etudes Scientifique, Bures-sur-Yvette, June, 1987
- Visitor, Free University of Berlin, Germany, May 1987
- Visitor, Mathematical Institute, Oxford, Spring, 1987
- Professor Invité, Université de Lille, I, France, May 1986

 $^{^1\}mathrm{April}$ 25, 2022

RESEARCH INTERESTS

- Differential topology & geometry of foliations
- Ergodic theory & dynamics of foliations
- Smooth ergodic theory & rigidity of group actions
- Spectral & index theory of foliated operators

FELLOWSHIPS, AWARDS AND PROFESSIONAL RECOGNITION

- Institute for Advanced Study Fellowship, 1980-81
- Mathematical Sciences Research Institute Fellowship, 1983-85
- Alfred P. Sloan Foundation Fellowship, 1985-87
- Invited Hour Speaker, A.M.S. Regional Meeting, Kansas, October 1988.
- University Scholar, University of Illinois, 1991-94
- UIC ALTHE Grant for Curriculum Development, 1995-97
- UIC Teaching Recognition Program Award, 1997
- UIC Award for Excellence in Teaching, 2007
- UIC Luminary Award, 2010

COMMUNITY AWARDS

• Illinois State Board of Education "Award of Excellence", 1997-1998. (Highest award given by the State of Illinois for citizen contributions to the public schools.)

GRANT SUPPORT

- Simons Foundation, Collaboration Grant for Mathematicians, 2014-2020.
- Principal Investigator, NSF Research Grants at UIC, 1984-86; 1986-89; 1989-1991; 1991-94; 1994-97; 1997-2000; 2004-07.
- Principal Investigator, NSF Grant on Geometric Rigidity, Boulder May 1989
- Principal Investigator, NSF Grant for Geometry Special Year at UIC, 1987-88
- NSF Summer Grant at Princeton University, 1981-83

DEPARTMENT SERVICE

- Advisory Committee, 1992-1994; 2003-2012: Chair, 1992-1993; 2004-2006; 2007-2009
- Salary Committee, 1990-1991; 1992-1995, 2006, 2008, 2009
- Committee on Statistics, Fall 1989
- Classification Committee, 1990-1991
- Colloquium Chair, 1990-1991
- Director of Graduate Studies, 2004-2006
- Graduate Studies Committee, 1994-1996, 1998-2001, 2002-2004
- Doctor of Arts Subcommittee, 1994-2001; 2004-2007: Chair, 1998-2001, 2007-2011
- Graduate Student Teaching Award Committee, 2004, 2005, 2006, 2008, 2009
- Director of Undergraduate Studies, 2007-2011
- Chair Undergraduate Studies Committee, 2007-2011
- Math Club Advisor, 2007-2011
- Student Awards Committee, 2007-2011
- ComEd Scholarship Committee, 2008-2011
- Visitors Committee, 2003-2004
- Faculty Search Committee, 1994-1995, 1996-1998
- Tenure-Track Search Committee, 2007-2008
- RAP Search Committee, 2008-2010
- Computer Systems Administrator Search Committee, 2008
- Chair, Promotion Committee X, 2003-2004

- Faculty Peer Review Committee: Alex Furman, 2004, 2005, 2006
- Faculty Peer Review Committee: Kevin Whyte, 2004, 2005, 2006
- Faculty Peer Review Committee: Allison Castro-Superfine, 2007, 2008, 2009, 2011
- Faculty Peer Review Committee: Laura DeMarco, 2007, 2008, 2010, 2011
- Faculty Peer Review Committee: Michael Greenblatt, 2009
- Faculty Peer Review Committee: Bonnie Saunders, 2012
- Master Exam Committee, Real Analysis, 2003
- Master Exam Committee, Real Analysis, 2004
- Master Exam Committee, Real Analysis, 2006
- Master Exam Committee, Topology, 1992
- Master Exam Committee, Topology, 2000
- Master Exam Committee, Topology, 2008
- Master Exam Committee, Topology, 2010
- Master Exam Committee, Topology, 2011
- Master Exam Committee, Complex Analysis, 2012
- Computer Facilities Committee, 1995-1998
- Co-sponsored (with Hanson & Tier) funding proposal to Administration for an Undergraduate Computer Laboratory, December 1992, and revised February 1993.
- Installed and maintained software on NeXT computer server (1991-93)
- Developed and maintained MSCS web homepage, 1994-1999
- Redesign department web site, December 2004

UNIVERSITY SERVICE

- LAS Executive Committee, 2006-2008
- LAS Committee on Contingent Faculty, 2010-2011
- Senate Academic Services Subcommittee on Computing and Communications, 1998-2001
- TOEFL Standards Setting Panel, Graduate College, May 2005
- Vice Provost's Meeting on International Teaching Assistants, December 2004
- University Scholarship Award Committee, 2007-2011
- Klassen Awards Committee, 2008
- LAS Goldwater Selection Committee, 2010-2012
- Commencement Marshall for MSCS, 2008, 2009, 2011

PROFESSIONAL SERVICE

- AMS Working Group on the Nominee Program of the AMS, 2009-2011
- AMS Chair Committee to Select Hour Speakers, Central Section Regional Meetings, 1997
- AMS Member, AMS-IMS-SIAM Joint Summer Research Conferences in the Mathematical Sciences, Selection Committee, 1998-2001
- MAA Committee on the Participation of Women, 2007-2013
- NSF Committee of Visitors, oversight of DMS Modern Analysis Program, May 1995
- NSF Referee for numerous NSF Summer grant proposals, 1986-2010
- NSF Summer Grants Review Panel, 1996, 1997, 1999, 2000, 2004, 2006
- Referee for various research journals, 1982-2016
- Reviewer for Math Reviews, 1980-2012
- Wrote promotion letters to tenure-track and tenure (average 2 per year), 1992-2016
- Wrote Letters of Recommendation (undergraduates, graduate students, faculty), 1990-2016

THESIS SUPERVISED

- Andrew Rich: A Lefshetz Theorem for Foliated Manifolds, August 1989.
- Mohan Ramachandran: Eta Invariants for Open Manifolds with Boundary, August 1990.
- Arek Goetz: Dynamics of Piecewise Isometries, August 1996.
- Kristen (Wottreng) Schreck: Computer Methods in Descriptive and Differential Geometry: Monge's Legacy, August 1999.
- Wojciech Florek: Foliations: A Probablistic, Potential Theory Approach, December 2003.
- Joseph Shive: Conjugation Problems for Hirsch Foliations, August 2005.
- Jessica Dyer: Dynamics of Equicontinuous Group Actions on Cantor Sets, December 2015.
- Daniel Ingebretson: Hausdorff dimension of Kuperberg minimal sets, August 2018.

POSTDOCTORAL RESEARCH SUPERVISION

- Chris Connell, doctorate from University of Michigan, 1999 NSF Postdoctoral Fellowship 1999-2001
- Hellen Colman, doctorate from University of Santiago de Compostela, 1998 Fellowship from the Xunta Galicia, Spain 1999-2000
- Andrzej Biś, doctorate from Lodz University, Poland, 1995 European Union Fellowship Commission Marie-Curie Fellowship, January 2005–2006
- Dirk Töben, doctorate from University of Köln, 2003 Fellowship from the Schwerpunktprogramm SPP 1154 of the Deutsche Forschungsgemeinschaft, September 2005 to October 2006, September–October 2007, February–March 2008.
- Ana Rechtman, doctorate from École Normale Superiure, Lyon, France, 2009 CONACyT Postdoctoral Research Fellow, January-December 2010.

UNDERGRADUATE RESEARCH PROJECTS DIRECTED

- Kevin Jones: Galois Theory, Spring 2000 (supported bt VIGRE Grant)
- Chris Mason: An Excursion in Arithmetic, Spring 2002 (supported bt VIGRE Grant)
- Tyler Bray: *Classification of Cantor Sets*, Spring 2003 (supported bt VIGRE Grant)
- Kenneth Lauer: The Dynamics of Fractals with Computer Examples, Spring 2006
- Yelena Shagall: Cantor's Continuum Hypothesis, Summer 2006

GRADUATE RESEARCH SEMINARS ORGANIZED

- "Analytic Torsion and Algebraic K-Theory", Fall 1985.
- "Foliations and Physics", Spring 1988.
- "KK-theory", Spring 1990.
- "Exotic cohomology", Fall 1990.
- "KK, AKK & Cyclic Cohomology Theories", (with Mel Rothenberg) Spring 1991.
- "Graduate Student Geometry Seminar", (with Sa'ar Herbronsky) Spring 1992.
- "Differential Geometry", Summer 1992.
- "1-Dimensional Dynamical Systems", Fall 1992.
- "Dynamics and Foliations", Spring 1993.
- "Novikov Conjecture", (with Mel Rothenberg) Spring 1993.
- "Hyperbolic Groups", (with Howard Masur) Fall 1993.
- "Geometric Group Theory", (with Howard Masur) Spring 1994.
- "Current Aspects of Geometry and Topology", (with Howard Masur) Spring 1996.
- "Dynamical Systems and Laminations", (with Laura DeMarco) Fall 2007.
- "Geometry, Topology, and Dynamical Systems" 1985–2012 (at various times with Laura DeMarco, Alex Furman, Howard Masur and Kevin Whyte.)
- "Topological and smooth dynamical systems", (with Olga Lukina) Fall 2013 Spring 2016.

CONFERENCES ORGANIZED at UIC

- "Midwest Topology", (with Brayton Grey) February 1987; April 1991; February 1993; February 1995; February 1996; February 2001; February 2002
- "Foliations Workshop", March 1988.
- "Analysis and Geometry Workshop", (with Howard Masur) 1988.
- "Midwest Index Theory", May 1995.
- "Midwest Dynamical Systems", (with Laura DeMarco & Alex Furman) November 2009.
- "Undergraduate Mathematics Symposium", (principal organizer, David Dumas) October 2010, 2011 & 2012.
- "GroupoidFest 2018", (with Olga Lukina) November 2018.
- "Midwest Dynamical Systems", November 2019.

CONFERENCES ORGANIZED ELSEWHERE

- "Analysis and Geometry", special session at A.M.S. Regional Meeting, Kansas, October 1988 (with Norberto Salinas).
- "Cyclic Chern Character Workshop" at University of Colorado at Boulder, April 1989.
- "Geometric Rigidity", Conference & Workshop at University of Colorado at Boulder, May 1989 (supported by N.S.F.).
- "Geometry and Dynamical Systems", special session at A.M.S. Regional Meeting, Chicago, September 1998 (with Ralf Spatzier).
- "Rigidity in Dynamics, Geometry, and Group Theory", special session at A.M.S. Regional Meeting, New York, April 2003 (with David Fisher and Kevin Whyte).
- "Foliations 2005", International Conference on Foliation Theory and Related Fields, Uniwersytet Łódzki, Łódź, Poland (with Rémi Langevin, Takashi Tsuboi and Paweł Walczak).
- "Real Dynamics", special session at Joint International Meeting of the American Mathematical Society (AMS) and the Polish Mathematical Society (PTM), Warsaw, Poland, August 2007, (with Paweł Walczak and Michal Misiurewicz).
- "Foliations and Dynamics", special session at Joint International Meeting of the American Mathematical Society (AMS) and the Sociedad de Matemática de Chile, Pućon, Chile, December 2010, (with Andrés Navas).
- "Dynamical Systems", satellite meeting of the British Mathematics Colloquium, Leicester, UK, April 2011, (Co-organizer of Special Session with Alex Clark and Olga Lukina).
- "Trends in Dynamics", International Conference on Dynamical Systems, Evanston, IL, April 2011, (Bryna Kra and Amie Wilkinson, local organizers).
- "Foliations 2012", International Conference on Topology, Geometry and Dynamics of foliations, Lodz, Poland, June 2012, (Maciej Czarnecki and Paweł Walczak, local organizers).
- "Workshop Geometry and Dynamics of Foliations", ICMAT, Madrid, September 2014.

INVITED TALKS

Talks at International Conferences

- Chern Symposium, Berkeley, June 1980.
- Georgia Topology Conference, July 1980.
- Conference "Ergodic Theory and Geometry", MSRI, Berkeley, May 1984.
- Conference "Operator Algebras and Geometry", Berkeley, June 1985.
- Conference "Scattering Theory and Harmonic Analysis", Stanford University, July 1985.
- Conference "Dynamical Systems and Smooth Ergodic Theory", Univ. of Maryland, March 1987.
- Conference "Cyclic Cohomology and Its Applications", Mathematical Institute, Warwick, U.K., April 1987.
- Conference, U.S.-U.K. Summer Workshop, New Hampshire, July 1987.
- A.M.S. Summer Institute "Analytic Invariants of Elliptic Operators", Bowdoin, Maine, July 1988.
- Conference "Foliations", Univ. of Maryland, College Park, September 1989.
- Workshop "Applications of Algebraic Topology to Geometry and Analysis", MSRI, Berkeley, January 1990.
- Conference "Ergodic Theory", Göttingen, July 1990.
- International Colloquium "Dynamical Systems", Lyon, July 1990.
- Workshop "Topology", Rio de Janeiro, January 1992.
- Conference "Lie groups and geometric rigidity", MSRI, Berkeley, April 1992.
- Conference "Cyclic cohomology and geometry", Oxford University, July 1992
- Workshop "Index theory and Novikov conjectures", Oberwolfach, Germany, September 1993.
- Symposium "Geometric Study of Foliations, Tokyo, November 1993.
- Workshop "Ergodic Theory of Abelian Actions", Warwick, June 1994.
- Workshop "Spectral theory of singular spaces", Oberwolfach, Germany, July 1994.
- Symposium "Differential Geometry Analysis and Geometry in Foliated Manifolds", Santiago de Compostela, Spain, July 1994.

- Symposium "Foliations: Geometry and Dynamics", Banach Center, Warsaw, May 1995.
- Symposium "Ergodic Theory and Dynamical Systems", Banach Center, Warsaw, June, 1995.
- Conference "Workshop on Hyperbolic Dynamical Systems", Warwick, England, July 10-20, 1995.
- Symposium "Index Theory, Coarse Geometry and Topology of Manifolds", Boulder, August 15-19, 1995.
- Workshop "Dynamical Systems and Related Topics", Penn. State University, October 18-20, 1995
- Conference "Index Theory in Honor of Paul Baum", University of Colorado, Boulder, July 15-19, 1996.
- Conference "Ergodic Theory, Geometry and Arithmetic", Erwin Schrödinger Institute, Vienna, February 3-14, 1997.
- Conference "Geometry and Dynamics of Foliations and Laminations", Stony Brook, May 1998.
- Conference "Dirac operators, index theorems and numerical invariants of manifolds", Usedom, Germany, March 7-13, 1999.
- Conference "Workshop on the Baum-Connes conjecture", E.T.H., Zürich, May 2-5, 1999.
- Conference "Groupoids in Physics and Geometry", Boulder, Colorado, June 20-25, 1999.
- Conference "Workshop on Ergodic theory of Z^d-actions", Mathematical Institute of the University of Warwick, April 3-7, 2000.
- Conference "Foliations: Geometry and Dynamics", Banach Center, Warsaw, Poland, May 29-June 9, 2000.
- Conference "Noncommutative Geometry", Mount Holyoke College, Massachusetts, June 18-29, 2000.
- Conference "Lusternick-Schnirelmann Category in the New Millennium", Mount Holyoke College, Massachusetts, July 29-August 2, 2001.
- Conference "Geometry and Foliations 2003", Kyoto, Japan, September 10-19, 2003.
- Conference "BGamma School", Chuo University, Tokyo, Japan, September 29 to October 2, 2003.
- Conference "Recent Progress in Dynamics", MSRI, Berkeley, September 27, 2004 to October 1, 2004.
- Conference "Foliations 2005", Lodz, Poland, June 14-23, 2005.
- Workshop "Global Dynamics Beyond Uniform Hyperbolicity", Northwestern University, Evanston, May 17-22, 2006
- Workshop "Ergodic Theory and Dynamical Systems", Szklarska Poreba, Poland, June 18 24, 2006
- Workshop "Groupoids in operator algebras and noncommutative geometry", Insitut Henri Poincaré, Paris, France, February 26 March 2, 2007.
- Conference "Foliations, Topology and Geometry in Rio", PUC-Rio, Rio de Janeiro, Brazil, August 6-10, 2007.
- Conference "Geometry and Topology", Jagiellonian University, Krakow, Poland, June 30-July 5, 2008.
- Conference "VIII International Colloquium of Differential Topology", Santiago de Compostela, Spain, July 2008.
- Workshop "Solenoids", Delft, Netherlands, August 2009.
- Conference "Gfest 2009", Boulder, CO, October 2009.
- Workshop "Geometry of Foliations", CRM Barcelona, April 2010.
- Minicourse "Dynamics of Foliations", CRM Barcelona, May 2010.
- Conference "Geometry and Topology of Foliations", CRM Barcelona, July 2010.
- Invited 45 minute talk, Joint Meeting AMS-SMC, Pucon, Chile, December 2010.
- Workshop "ANR SubTile", Université Claude Bernard Lyon 1, Lyon, France, March 2011.
- Colloquium, "British Mathematics Colloquium", Leicester, UK, April 2011
- Conference "11th Nagoya International Mathematics Conference", Nagoya, Japan, March 2012.
- Conference "Sixth European Conference on Mathematics", Krakow, Poland, July 2012.
- Conference "International Conference Beyond Uniform Hyperbolicity", Bedlewo, Poland, June 2013.
- Conference "Geometry and Foliations 2013", Tokyo, Japan, September 2013.
- Minicourse at Conference "29th Summer Conference on TOPOLOGY and its APPLICATIONS", Staten Island, NY, July 2014.
- Conference "Automatic Sequences, Aperiodic Order, Number Theory", Delft, The Netherlands, October 2015.
- Conference "50th Spring Topology and Dynamical Systems Conference", Waco, TX, March 2016.
- Conference "FOLIATIONS 2016", Bedlewo, Poland, July 2016.
- Conference "31st Summer Conference on Topology and its Applications", Leicester, England, August 2016.
- Conference "Mathematical Congress of Americas MCA2017", Montreal, Canada, July 2017.
- Conference "Tiling and Recurrence", CIRM Luminy, Marseille, France, December 2017.
- Conference "52nd Spring Topology and Dynamical Systems Conference", Auburn University, March 2018.
- Conference "Arithmetic and Analysis", Münster, Germany, April 2018.
- Conference "Systmes dynamiques et systmes complexes", Nice, France, June 2018.
- Conference "New trends on Foliated and Stratified Spaces", Santiago do Compostela, Spain, June 2018.
- Conference "2020 Vision for Dynamics", Bedlewo, Poland, August 2019.
- Conference "Low dimensional topology and number theory XII", Kyushu, Japan, March 2020.

Talks at AMS Special Sessions

- "Dual homotopy invariants of G-foliations", Bloomington, IN, April 1980.
- "Ergodic theory and the Weil measure", East Lansing, MI, November 12 1982.
- "Spectral invariants and the geometry of foliations", New Orleans, LA, January 1986.
- "Renormalized Chern character for foliations", Indianapolis, IN, April 1986.
- "Transverse Index and KK-theory for Riemannian Foliations", San Francisco, CA, January 1991.
- "Exotic index theory and the Baum-Connes Conjecture for foliations", Springfield, MO, March 1992.
- "Pure point spectrum of foliation operators", Los Angeles, CA, November 8, 1992.
- "Exotic index and almost flat spectrum", College Station, TX, October 22, 1993.
- "Exotic theory and the Novikov Conjecture", Cincinnati, OH, January 14, 1994.
- "Index Theory and Non-commutative Geometry", San Diego, CA, January 8, 1997.
- "Geometric and Symbolic Dynamical Systems", San Francisco, CA, October 22-23, 2000.
- "Category of Riemannian Foliations", Seville, Spain, June 18-21, 2003.
- "Local entropy of foliations and groupoids", San Antonio, TX, January 12-15, 2006.
- "Markov minimal sets of foliations", San Francisco, CA, April 29-30, 2006.
- "Solenoidal minimal sets in foliations", Chicago, IL, October 5-6, 2007.
- "Hyperbolic attractors in foliations", San Diego, CA, January 6, 2008.
- "Dynamics of Group Actions and their Minimal Sets", Pucon, Chile, December 18, 2010.
- "Lipshitz matchbox manifolds", St. Louis, MO, October 19, 2013.
- "Entropy for Y-like matchbox manifolds", San Antonio, TX, January 12, 2015
- "The Semicentennial Anniversary of University of Illinois at Chicago", Chicago, IL, October 3, 2015
- "Entropy of the Kuperberg pseudogroup", Memphis, TN, October 18, 2015
- "Foliation index theory for weak solenoids", Honolulu, HI, March 24, 2019
- "Classification of weak solenoids", Denver, CO, January 18, 2020

Talks at Regional Meetings

- "Transverse cyclic Chern characters", Midwest Topology Conf., Univ. of Chicago, April 1986.
- "The geometry of the foliation index theorem", invited hour address, A.M.S. Regional Meeting, Lawrence, Kansas, October 1988.
- "Spectral theory of foliation operators", Conf. on Foliations, College Park, Maryland, September 1989.
- "Topology and spectral theory", Midwest Topology Conf., Northwestern Univ., March 1990.
- "Rigidity for Anosov actions of higher rank lattices", Conf. on Geometric Rigidity and Manifolds with Non-positive Curvature, Northwestern Univ., March 1990.
- "Rigidity of SL(n,Z) action on tori", Geometry Festival, Eastern Illinois Univ., November 1990.
- "Rigidity for actions of higher rank lattice", Conference on Geometric Rigidity and Hyperbolic Dynamics, Penn. State University, March 1991.
- "Exotic theory for foliations", CBMS Meeting on K-Homology and Index Theory, Boulder, CO, August 1991.
- "Exotic cohomology for foliations", Ohio State Topology Festival, Columbus, November 1991.
- "Dynamical Systems and Related Topics", Penn. State University, October 18-20, 1995.
- "Midwest Index Theory Conference" UIUC, April 19, 1997.
- "Workshop on Dynamical Systems and Related Topics", Penn State University, October 26-29, 2000.
- "Larry Fest: Conference in Honor of Larry Conlon", Washington University St. Louis, April 6-7, 2001.
- Special Session, "General Topology and its Applications", New York, NY, July 2011
- Plenary Address, "General Topology and its Applications", New York, NY, July 2011

Colloquia & Seminars

- U.I.U.C., Differential Geometry Seminar, "Homotopy invariants of a differentiable map", February 20, 1979.
- U.I.U.C., Differential Geometry Seminar, "'Minimal models' meets 'foliations', I", April 10, 1979.
- U.I.U.C., Differential Geometry Seminar, " 'Minimal models' meets 'foliations', II", April 17, 1979.
- U.I.U.C., Differential Topology Seminar, "Non-triviality of the Riemannian secondary characteristic classes", October 9, 1979.
- U.I.U.C., Differential Topology Seminar, "What is $\pi_{1,000,000}(BR\Gamma^q)$?", October 16, 1979.
- U.I.U.C., Differential Topology Seminar, "How to slice a π : Homotopy Koszul resolutions", October 23, 1979.
- U.I.U.C., Differential Topology Seminar, "A resolution of the homotopy groups of a space", October 30, 1979.
- U.I.U.C., Differential Topology Seminar, "Detecting free Lie algebras with forms", November 6, 1979.
- U.I.U.C., Differential Topology Seminar, "Characteristic classes of flat bundles", February 19, 1980.
- I.A.S., Princeton, Members Seminar, "Deformations of foliations", January 26, 1981.
- Rutgers University, New Brunswick, Topology Seminar, "Deformations of foliations", February 24, 1981.

- Yale University, New Haven, Topology Seminar, "Homotopy invariants of foliations", April 8, 1981.
- I.A.S., Princeton, Topology Seminar, "Exotic characteristic classes for measured foliations", December 3, 1981.
- Yale Univ., Topology Seminar, "Weil operators and their applications", June 3, 1982.
- S.U.N.Y., Stony Brook, Colloquium, "Foliation invariants, Weil measures and group actions", September 29 1982.
- University of Maryland, College Park, Colloquium, "Weil measures and the geometry of foliations", February 15, 1983.
- University of Pennsylvania, Philadelphia, Colloquium, "Weil measures and the geometry of foliations", February 17, 1983.
- University of Georgia, Athens, Colloquium, "Weil measures of a foliated manifold", February 28, 1983.
- I.A.S., Princeton, Topology Seminar, "Weil measures of a foliated manifold", March 31, 1983.
- U.C.-Berkeley, "The geometry of the Godbillon-Vey classes", April 1984.
- Washington Univ., Colloquium, "The Sullivan conjecture and ergodic theory of foliations", October 1984.
- California Institute of Technology, Colloquium, "Secondary invariants and ergodic theory", March 1985.
- U.C.L.A., Ergodic Theory Seminar, "Cocycles and non-commutative geometry I, II", March 1985.
- Univ. of North Carolina, Colloquium, "Characteristic classes for dynamical systems", May 1985.
- M.S.R.I., Differential Geometry Seminar, "Characteristic classes for geodesic flows", May 1985.
- M.S.R.I., Connes' Seminar, "The eta-invariant and cyclic cocycles," May 1985.
- Univ. of Michigan, Topology Seminar, "Eta-invariants and foliation algebras", September 1985.
- Purdue Univ., Colloquium, "Eta-invariants and foliation algebras", October 1985.
- Northwestern Univ., Dynamics Seminar, "Symmetry breaking in codimension-one Anosov systems, November 1985.
- Pennsylvania State Univ., Colloquium, "Eta invariants, index theory and foliations", December 1985.
- Univ. de Lille, Geometry Seminar, "Characteristic classes for dynamical systems", May 1986 (2 hr. invited talk).
- Univ. de Genève, Geometry Seminar, "Characteristic classes for dynamical systems", May 1986.
- Mathematical Institute, Oxford, Geometry Seminar, "Secondary invariants and renormalized cyclic cocycles", June 1986.
- Univ. of Colorado, Colloquium, "Spectral geometry of group actions", September 1986.
- Univ. of Chicago, Analysis and Physics Seminar, "Spectral invariants for foliations", October 1986.
- U.I.U.C., "Index theorems and regulators in algebraic K-theory", November 1986.
- Cal. Inst. Tech, Colloquium, "Analytic invariants for algebraic K-theory", January 1987.
- Univ. of Notre Dame, Colloquium, "Analytic invariants for algebraic K-theory", February 1987.
- S.U.N.Y. at Stony Brook, Geometry Seminar, "Analytic invariants for foliations", March 1987.
- Mathematical Institute, Oxford, Colloquium, "Horocycles and rigidity for surfaces", April 1987.
- Mathematical Institute, Oxford, Geometry Seminar: (4 talks), "Analysis on foliations", April-May 1987.
- Freie Universität, Berlin, Geometry Seminar: (4 talks, 2hrs. each), "Homotopy theory of foliations", June 1987.
- New York Univ. Graduate Center, Sullivan's Seminar, "Ergodic theory of foliations and a theorem of Sacksteder", November 1987.
- Univ. of Maryland, Geometry Seminar, "Ergodic theory of smooth actions of groups and foliations", October 1987.
- New York Univ., Graduate Center, "Ergodic theory of foliations and a theorem of Sacksteder", November 1987.
- New York Univ., Colloquium, "Fock space representations and rigidity of surfaces", December 1987.
- S.U.N.Y., Stony Brook, Colloquium, "Toeplitz operators and the rigidity of surfaces", March 1988.
- Univ. of Southern California, Seminar, "Analysis of foliation Dirac operators", March 1989.
- California Institute of Technology, Seminar, "Fock space representations and rigidity", March 1989.
- Univ. of Maryland, Dynamics Seminar, "Rigidity for discrete toral automorphisms", September 1989.
- Univ. of Colorado, Dynamical Systems Seminar, "Rigidity for SL(n,Z) acting on T^n ", October 1989.
- Northwestern Univ., Dynamics Seminar, "Deformation rigidity for Anosov actions of higher rank lattices", January 1990.
- S.U.N.Y., Buffalo, Colloquium, "The rigidity of SL(n,Z) acting on the n-torus", February 1990.
- Univ. of Chicago, Lie Groups seminar, "Rigidity of actions of lattices", April 1991.
- S.U.N.Y. Stony Brook, Colloquium, "Rigidity for the integer matrices", September 1991.
- S.U.N.Y. Stony Brook, Analysis seminar, "Non-commutative isoperimetric theory and spectral density", September 1991.
- U.I.U.C., Colloquium, "Rigidity for the integer matrices, October 1991.
- Univ. of North Carolina, Chapel Hill, Colloquium, "New results in the rigidity theory of lattice actions", March 1992.
- Univ. of Michigan, Geometry/Topology Seminar, "Affine actions without fixed-points", November 16, 1992

- L'Ecole Polytechnique Paris, "New results in the rigidity theory of lattice actions", May 20, 1992.
- University do Santiago do Compostela, Colloquium, "Exotic index theory for foliations", May 15, 1992.
- Humboldt University, Colloquium, "Almost flat spectrum and coarse geometry", June 9, 1993.
- Humboldt University, Seminar, "Exotic index theory and Novikov Conjecture", June 11, 1993.
- Minicourse "Coarse Geometry of Foliations", 3 lectures, Conference on Geometric Study of Foliations, Tokyo, November 1993.
- Université Lyon I, Geometry Seminar, "Course geometry of foliations", February 11, 1994.
- École Normale Sup. Lyon, Geometry Seminar, "Entropy for leaves of foliations", February 16, 1994.
- Institut Fourier, Grenoble, Colloquium, "Coarse geometry and the Novikov Conjecture", February 17, 1994.
- Université Lyon I, Geometry Seminar, "Baum-Connes Conjecture and coarse geometry", February 18, 1994.
- University of Buffalo, SUNY, Colloquium, "Fine invariants from coarse families", March 3, 1994.
- University of Buffalo, SUNY, Colloquium, "Spectral entropy (or, dance of the skeleta)", March 4, 1994.
- University de Bourgogne, Colloquium, "Dynamics and the Godbillon-Vey Classes", May 19, 1999.
- University of Sheffield, England, Colloquium, "Foliations: at the Crossroads of Geometry and Topology", November 22, 2000.
- University of Chicago, Geometry Seminar, "Alternatives in 1-dimensional dynamics", April 19, 2001.
- Facultad de Ingeniería Universidad de la República, Montevideo, Geometry/Dynamics seminar, "Dynamics of actions on the circle", December 14, 2001.
- Northwestern University, Dynamical Systems Seminar, "Hyperbolic minimal sets", November 15, 2005.
- University of North Texas, Colloquium, "Foliations a playground for topology and dynamical systems", April 14, 2006.
- University of Lodz, Poland, Geometry Seminar, "Solenoidal minimal sets for foliations", June 14, 2006.
- Minicourse "Dynamics and Analysis of Foliations", six 2-hour lectures in mini-course, part of trimester program on "Groupoids and stacks in physics and geometry" at Institut Henri Poincare, Paris, France, January–February 2007.
- University of Cologne, Germany, Geometry Seminar, "Local entropy and the Godbillon-Vey Class", March 13, 2007.
- Utrecht University, Colloquium, "Dynamics of Foliations: classifying foliations by their behavior", May 10, 2007.
- University of Chicago, Dynamics Seminar, "Classifying foliation dynamics", November 7, 2007.
- Northwestern University, Dynamical Systems Seminar, "Classifying Foliation Dynamics", February 2008.
- University of Leicester, Colloquium, "Foliations, Fractals and Cohomology", February 19, 2009.
- SUNY Buffalo, Colloquium, "Classifying Foliations", March 26, 2009.
- Minicourse "Dynamics of Foliations", five 1-hour lectures in mini-course, program on "Foliations: Dynamics-Geometry-Topology", Centre de Recerca Matemàtica, Barcelona, Spain, May 3–7, 2010.
- Brigham Young University, "Dynamics and matchbox manifolds", November 14, 2011.
- Université Nice-Sophia Antipolis, France, Dynamical Systems and Geometry Seminar, "Dynamical Invariants of Foliations", April 10, 2012.
- Université Strassbourg, France, Colloquium, "Dynamical Invariants of Foliations", October 19, 2012.
- Université Strassbourg, France, "LS category of foliations and Fölner properties", October 22, 2012.
- Université Metz, France, "Index Theory for Foliation Minimal Sets", October 25, 2012.
- University of Chicago, Dynamics Seminar, "The dynamics of Kuperberg flows", January 28, 2013.
- Penn. State University, Dynamics Seminar, "The dynamics of Kuperberg flows", April 24, 2013.
- University of Illinois at Urbana-Champaign, Colloquium, "Foliations Thurston Zebras to Cantor Geometries", October 17, 2013.
- Université Strassbourg, France, "Shape and dynamics", March 31, 2014.
- Depaul University, Colloquium, Chicago, IL "The dynamics of flows in 3-dimensions", April 8, 2016.
- UNAM, Colloquium, Mexico City, Mexico "The dynamics of flows in 3-dimensions", April 19, 2016.
- UNAM, Mexico City, Seminar, Mexico "Homeomorphisms of solenoids", April 21, 2016.
- IUPUI, Indianaplois "Geometry and Dynamics of Solenoids", October 19, 2018.

Additionally, approximately 75 talks were given in the seminar "Geometry, Topology and Dynamical Systems" at U.I.C. during the period 1985-2016.

PUBLICATIONS

- (1) Dual homotopy invariants of G-foliations. Topology, 20(4):365–387, 1981.
- (2) (with F. W. Kamber) Homotopy invariants of foliations. In Topology Symposium, Siegen 1979 (Proc. Sympos., Univ. Siegen, Siegen, 1979), volume 788 of Lecture Notes in Math., pages 49–61. Springer, Berlin, 1980.
- (3) On the homotopy and cohomology of the classifying space of Riemannian foliations. Proc. Amer. Math. Soc., 81(3):485–489, 1981.
- (4) On the secondary classes of foliations with trivial normal bundles. *Comment. Math. Helv.*, 56(2):307–326, 1981.
- (5) Exotic classes for measured foliations. Bull. Amer. Math. Soc. (N.S.), 7(2):389-391, 1982.
- (6) Independent rigid secondary classes for holomorphic foliations. Invent. Math., 66(2):313–323, 1982.
- (7) Global invariants for measured foliations. Trans. Amer. Math. Soc., 280(1):367–391, 1983.
- (8) Vanishing of secondary classes for compact foliations. J. London Math. Soc. (2), 28(1):175–183, 1983.
- (9) (with A. Katok) Secondary classes and transverse measure theory of a foliation. Bull. Amer. Math. Soc. (N.S.), 11(2):347–350, 1984.
- (10) (with J. Heitsch) Secondary classes, Weil measures and the geometry of foliations. J. Differential Geom., 20(2):291–309, 1984.
- (11) The classifying space of smooth foliations. Illinois J. Math., 29(1):108–133, 1985.
- (12) Foliation dynamics and leaf invariants. Comment. Math. Helv., 60(2):319–335, 1985.
- (13) Problems on rigidity of group actions and cocycles. Ergodic Theory Dynam. Systems, 5(3):473–484, 1985.
- (14) The Godbillon measure of amenable foliations. J. Differential Geom., 23(3):347–365, 1986.
- (15) (with Dorte Olesen, Iain Raeburn, and Jonathan Rosenberg) The Connes spectrum for actions of abelian groups on continuous-trace algebras. *Ergodic Theory Dynam. Systems*, 6(4):541–560, 1986.
- (16) (with A. Katok) Ergodic theory and Weil measures for foliations. Ann. of Math. (2), 126(2):221–275, 1987.
- (17) (Appendix to book by Calvin C. Moore and Claude Schochet) Global analysis on foliated spaces, Mathematical Sciences Research Institute Publications, Vol. 9. Springer-Verlag, New York, 1988. Revised 2nd ed., 2006. With appendices by S. Hurder, Moore, Schochet and Robert J. Zimmer.
- (18) (with Ronald G. Douglas and Jerome Kaminker) Toeplitz operators and the eta invariant: the case of S¹. In Index theory of elliptic operators, foliations, and operator algebras (New Orleans, LA/Indianapolis, IN, 1986), Contemp. Math., Vol. 70, Amer. Math. Soc., Providence, RI, 1988, pages 11–41.
- (19) Ergodic theory of foliations and a theorem of Sacksteder. In Dynamical systems (College Park, MD, 1986– 87), Lecture Notes in Math., Vol. 1342, Springer, Berlin, 1988, pages 291–328.
- (20) (with R. G. Douglas and J. Kaminker) Eta invariants and von Neumann algebras. Bull. Amer. Math. Soc. (N.S.), 21(1):83–87, 1989.
- (21) Eta invariants and the odd index theorem for coverings. In Geometric and topological invariants of elliptic operators (Brunswick, ME, 1988), Contemp. Math., Vol. 105, Amer. Math. Soc., Providence, RI, 1990, pages 47–82.
- (22) (with D. Lehmann) Homotopy characteristic classes of foliations. Illinois J. Math., 34(3):628–655, 1990.
- (23) (with A. Katok) Differentiability, rigidity and Godbillon-Vey classes for Anosov flows. Inst. Hautes Études Sci. Publ. Math., (72):5–61, 1990.
- (24) Deformation rigidity for subgroups of $SL(n, \mathbb{Z})$ acting on the *n*-torus. Bull. Amer. Math. Soc. (N.S.), 23(1):107–113, 1990.
- (25) (with R. G. Douglas and J. Kaminker) Cyclic cocycles, renormalization and eta-invariants. Invent. Math., 103(1):101–179, 1991.
- (26) (with R. G. Douglas and J. Kaminker) The longitudinal cocycle and the index of Toeplitz operators. J. Funct. Anal., 101(1):120–144, 1991.
- (27) Exceptional minimal sets of $C^{1+\alpha}$ -group actions on the circle. Ergodic Theory Dynam. Systems, 11(3):455–467, 1991.

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- (29) Rigidity for Anosov actions of higher rank lattices. Ann. of Math. (2), 135(2):361–410, 1992.
- (30) Topology of covers and the spectral theory of geometric operators. In Index theory and operator algebras (Boulder, CO, 1991), Contemp. Math., Vol. 148, Amer. Math. Soc., Providence, RI, 1993, pages 87–119.
- (31) A product theorem for $\Omega B\Gamma_G$. Topology Appl., 50(1):81–86, 1993.
- (32) Affine Anosov actions. Michigan Math. J., 40(3):561-575, 1993.
- (33) (with Yoshihiku Mitsumatsu) The Transverse Euler Class for Amenable Foliations. preprint, 1993
- (34) Exotic Theory for Foliated Spaces. preprint, 1993
- (35) (with Jésus Alvarez Lopez) Pure-point spectrum for foliation geometric operators. preprint, 1994
- (36) Topological rigidity of strong stable foliations for Cartan actions. Ergodic Theory Dynam. Systems, 14(1):151–167, 1994.
- (37) Paul A. Schweitzer, Steven Hurder, Nathan Moreira dos Santos, and José Luis Arraut, editors. Differential topology, foliations, and group actions, Contemp. Math., Vol. 161, Amer. Math. Soc., Providence, RI, 1994.
- (38) (with Yoshihiko Mitsumatsu) Transverse Euler classes of foliations on non-atomic foliation cycles. In Differential topology, foliations, and group actions (Rio de Janeiro, 1992), Contemp. Math., Vol. 161, Amer. Math. Soc., Providence, RI, 1994, pages 29–39.
- (39) A survey of rigidity theory for Anosov actions. In Differential topology, foliations, and group actions (Rio de Janeiro, 1992), Contemp. Math., Vol. 161, Amer. Math. Soc., Providence, RI, 1994, pages 143–173.
- (40) Coarse geometry of foliations. In Geometric study of foliations (Tokyo, 1993), pages 35–96. World Scientific Press, River Edge, NJ, 1994.
- (41) Infinitesimal rigidity for hyperbolic actions. J. Differential Geom., 41(3):515–527, 1995.
- (42) Exotic index theory and the Novikov conjecture. In Novikov conjectures, index theorems and rigidity, Vol. 2 (Oberwolfach, 1993), London Math. Soc. Lecture Note Ser., volume 227, Cambridge Univ. Press, Cambridge, 1995, pages 255–276.
- (43) (with Oliver Attie) Manifolds which cannot be leaves of foliations. Topology, 35(2):335–353, 1996.
- (44) Dynamics and the Godbillon-Vey class: a History and Survey. In Foliations: Geometry and Dynamics (Warsaw, 2000), World Scientific Press, River Edge, NJ, 2002, pages 29–60.
- (45) (with James L. Heitsch) Coarse cohomology for families. Illinois J. Math., 45(2):323–360, 2001.
- (46) (with Hellen Colman) Tangential LS category and cohomology for foliations. In Lusternik-Schnirelmann Category and Related Topics, Contemp. Math., Vol. 316, Amer. Math. Soc., Providence, RI, 2002, pages 41–64.
- (47) (with Hellen Colman) LS-category of compact Hausdorff foliations. Trans. Amer. Math. Soc. 356 (2004), no. 1, 1463–1487.
- (48) Dynamics of expansive group actions on the circle. Geom. Ded., accepted 2005.
- (49) Exceptional minimal sets and the Godbillon-Vey class. Annales Inst. Fourier, accepted 2005.
- (50) Category and compact leaves Topology and Its Applications, 153 (2006), 2135–2154.
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- (52) Foliations Lodz 2005 Problem Set. In FOLIATIONS 2005, World Scientific Press, River Edge, NJ, 2006, pages 441–475.
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- (58) Classifying foliations. In *Foliations, geometry, and topology*, editors N. Saldanha, L. Conlon, P. Walczak, R. Langevin and T. Tsuboi, Contemp. Math., Vol. 498, Amer. Math. Soc., Providence, RI, 2009, 1–61.
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- (60) (with Alex Clark) Homogeneous matchbox manifolds. Trans. Amer. Math. Soc., 365:3151–3191, 2013.
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- (63) FOLIATIONS 2012, Proc. Conference held June 24-30, 2012, Lodz, Poland, World Scientific Press, River Edge, NJ, 2013.
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- (69) (with Jessica Dyer and Olga Lukina) Growth and homogeneity of matchbox manifolds. Indagationes Math., 28:145–169, 2017. https://arxiv.org/abs/1602.00784
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- (71) (with Jessica Dyer and Olga Lukina) Molino theory for matchbox manifolds. Pacific Journal Math., Vol. 289:91–151, 2017. https://arxiv.org/abs/1610.03896
- (72) (with Rémi Langevin) Dynamics and the Godbillon-Vey Class of C¹ Foliations. Journal Math. Society Japan, Vol. 70:423–462, 2018. https://arxiv.org/abs/1403.0494
- (73) (with Pawel Walczak) Compact foliations with finite transverse category. Journal Math. Society Japan, Vol. 70:1015–1045, 2018. https://arxiv.org/abs/1612.03022
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