Curriculum Vita   **Ralph L. Cohen**

Dept. of Mathematics

Stanford University

Date and place of birth

Born August 11, 1952 in Detroit, Michigan. Citizenship: USA

Education

(1) B.S. in Mathematics, 1973, University of Michigan
(2) M.A. in Mathematics, 1975, Brandeis University
(3) Ph.D in Mathematics, 1978, Brandeis University, thesis advisor: E.H. Brown Jr.

Employment

(1) Barbara Kimball Browning Professor in the Humanities and Sciences, Stanford University, 2009 -2018, emeritus 2018 - present
(2) Senior Associate Dean for the Natural Sciences, College of Humanities and Sciences, Stanford University, 2010 - 2016
(3) Professor of Mathematics, Stanford University, 1987 - 2018, emeritus 2018 - present.
(4) Associate Professor of Mathematics, Stanford University, 1983 - 1987.
(5) Assistant Professor of Mathematics, Stanford University, 1980 - 1983.
(6) L.E. Dickson Instructor of Mathematics, University of Chicago, 1978 - 1980.

Visiting professorships:

- Northwestern University (1982)
- Princeton University (1983-4),
- Nankai Institute, China (1987),
- Oxford University. (1988-9, 2002)
- Univ. of Paris 7(1989),
- Cambridge University (1997) ,
- "Professeur Invité" , Univ. of Lille, France 2003, Univ. of Paris 13, 2005.
- Trondheim University, Norway, 2004
- Distinguished Visiting Professor, University of Copenhagen, Denmark, September, 2009 - March, 2010

Fellowships, Grants, and Awards

(1) Named Inaugural Fellow of the American Mathematical Society, 2013
(2) Principal Investigator on National Science Foundation Research grants continuously from 1978 until 2017.
(3) Co-PI, NSF grant for the "West Coast Algebraic Topology Summer School", 2012 - 2015
(4) PI on "Research Training Grant" for training of graduate students and postdocs in topology and geometry, 2006 - 2011.
(5) "Focused Research Grant" from NSF, 2003 - 2006. This was a $1.1 million group research grant in topology, headed by Cohen at Stanford, and D. Sullivan at SUNY-Stonybrook.
(6) Named "Bass University Fellow in Undergraduate Education", 2005 - 2018, now emeritus
(7) Dean's Award for Distinguished Teaching, 2002.
(8) National Science Foundation International research award 1988-9
(9) National Science Foundation *Presidential Young Investigator Award,* 1984 - 1989.
(10) A.P. Sloan Foundation Fellowship in Mathematics, 1982 - 1984.

Editorships

(1) co-Editor in Chief, *Communications of the American Mathematical Society, 2021 - present*
(2) *Editor, Journal of Geometry and Topology, 1997 -2021*
(3) *Editor, Homotopy, Homology, and its Applications, 2004 - 2020*
(4) *Chair, Editorial Board, Mathematical Surveys and Monographs,* American Math. Society, 2007 - 2015
(5) Editor of *Graduate Text Series,* Oxford University, Press, 1996 - present
(6) Founding Editor, *Journal of Topology* 2007-2013
(7) Editor, *Topology* 1988 - 2007.
(8) Editor, *Proceedings of the American Mathematical Society,* 1997 - 2001
(9) Editor, *Transactions of the American Mathematical Society,* and of *Memoirs of the American Mathematical Society,* 1985 - 1992.

Other Professional activities

(1) Chair, Board of Trustees, American Mathematical Society, 2020-2021.
(2) Elected to Board of Trustees, American Mathematical Society, 2016. Term: 2017-2022
(3) Elected member American Math. Society Executive Commitee 2011-2015
(4) Scientific Advisory Board, Banff International Research Station , 2008- 2012
(5) Director, Stanford's "Mathematics Research Center", 2000 - 2009
(6) Member of American Mathematical Society since 1975.

Selected Invited Lectures (last 5 years)

(1) Invited Lecture, Mathematical Sciences Literature Lecture Series, Center of Math. Sciences and Applications, Harvard University, 2020

(2) Invited Plenary Lecture, NSF conference on homotopy theoretic aspects of symplectic geometry, UCLA, June, 2017.

(3) Invited Plenary Speaker, Baas Conference on Topology and its Applications, Norwegian University of Science and Technology, Trondheim, Norway December 2016

(4) Keynote Speaker, Gitler Conference in Topology and Geometry, CINVESTAV, Mexico City, September, 2016

(5) Floer Memorial Distinguished Lecturer, Bochum, Germany, June 2016

(6) Invited Address, International Conference on the Topology of Manifolds in honor of M. Weiss., Lisbon, Portugal, June 2016

(7) Invited Address, El Colegio Nacional, Mexico City, Mexico August, 2015

(8) Invited Speaker, Symposium on Topology and Geometry, Univ. of British Columbia, Vancouver, Canada, June, 2015.

(9) Invited Speaker, Simons Center for Geometry and Physics Weekly Colloquium, November, 2014

(10) Invited Plenary Speaker, Conference on Loop Spaces in Geometry and Topology, Centre Henri Lebesgue, University of Nantes, Nantes, France, September, 2014

(11) Invited Plenary Speaker, Conference celebrating "60 Years of the Calabi Conjecture - a conference in honor of S-T Yau on the occasion of his 65th birthday", Tsinghua University, Beijing, China, August, 2014

(12) Invited Plenary Speaker, Conference on Manifolds, K-theory, and Related Topics, Dubrovnik, Croatia, June, 2014

(13) Invited Plenary Speaker, Conference on Algebraic Topology, Colegio de Nacional, Mexico City, Mexico, 2013

(14) Invited Plenary Speaker, Conference on Quantum Field Theory and Topology, University of Pittsburgh, 2013

(15) Invited Principal Speaker, Newton Institute of Mathematical Sciences, Cambridge University, UK 2013

(16) Invited Speaker, British Topology Symposium, University of Sheffield, 2012

(17) Invited Principal Speaker, Simons Institute on Geometry and Theoretical Physics, April, 2012

(18) Colloquium Speaker, University of Pittsburgh, 2012.

(19) Keynote Speaker, National Graduate Student Conference on Geometry and Topology, Michigan State University, 2011

(20) Invited Principal Speaker, Summer School on Loop Spaces, Nordfjordeid, Norway, 2011

(21) Invited Speaker, Conference on Loop Spaces, Groups, and Algebras, Center for Mathematical Research, Luminy, France, 2011

University and Department Service

(1) Senior Associate Dean for the Natural Sciences, School of Humanities of Sciences, 2010 - 2016

(2) Director, Mathematics Research Center, Stanford University, 2000 - 2009

(3) University Academic Senate, terms: 2000- 2002, 2005-2007, 2011- 2013, 2014-2016

(4) Chair, Academic Senate Committee on Committees, 2011- 2013

(5) Chairman, Dept. of Mathematics, 1992 - 1995.

(6) member, Dept. Curriculum committee to review Math 50 series, 2014 - present

(7) Editing Committee, new, department-written Math 51 textbook 2017 - present

Community Service and Education

(1) Co-organizer and supporting NSF grant PI, "West Coast Algebraic Topology Summer School", a summer program for graduate students, 2013 - present.

(2) Speaker and informal organizer, Scientific Lecture Series for Hollyhock Workshop for High School Mathematics and Science Teachers, sponsored by the Center to Support Excellence in Teaching, Graduate School of Education, Stanford University, July, 2015.

(3) Keynote Speaker, National Conference for Graduate Students in Geometry and Topology, April, 2011, Michigan

(4) Co-organizer (together with M. Schwarz) of workshop on "Morse theory, String Topology, and Floer theory" in San Giovanni, Italy, August, 2008. This workshop was part of the "Studienshriftung Academy", an academic society for German graduate students.

(5) Invited Keynote Speaker, National Convention of Mu Alpha Theta - a high school mathematics honors society, Sacramento, July, 2008.

(6) Keynote speaker, *National Undergraduate Research Conference*, UC Berkeley, May 2007.

(7) Speaker, Bay Area Mathematics Circles (an organization for gifted middle and high school mathematics students), February, 2008, November, 2008, April, 2010

(8) Invited author of an article on "Topology" for World Book Encyclopedia (appearing in the most recent volume).

(9) Invited series of lectures on Morse theory and String topology to a summer school of South American graduate students entitled "Geometric and Topological methods in Quantum Field Theory", Villa de Leyva, Colombia, June, 2007

(10) Lead original design team for the Math 50 series, 1997-8.

(11) Mathematics advisor to the Educational Program for Gifted Youth at Stanford, 1995 -2002

(12) Organized and taught continuing education course on "Great Ideas of 20th Century Mathematics", Fall, 2002. This was a night school course was attended by 70 people.

(13) Consultant to State Board of Education on K-12 Mathematics Content Standards, 1997 - 2000

(14) California State Mathematics Framework Committee, 1997

(15) Co-founder, with R. Mazzeo, Stanford University Mathematics Camp, a summer program for mathematically talented high school students, 1995

Publications

- Author of over 65 published mathematics research articles plus four more in preparation.
- Author and editor of 4 graduate and research level books and lecture notes. Two texts are in preparation.
- Author and Consultant of K-6 Mathematics Series, McGraw-Hill
- Author and Consultant, four textbook series at the middle and high school level, Glencoe, McGraw-HIll