

NITYA KITCHLOO (CV: 2010)

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Education

- Massachusetts Inst. of Tech., Mathematics, Ph.D, 1998. Thesis Advisor: Haynes R. Miller.
- California Inst. of Tech., Mathematics, B.S., 1993.

Appointments

- Professor of Mathematics, Johns Hopkins University, Baltimore, 2010–Present.
- Associate Professor of Mathematics, University of California, San Diego, 2004–2010.
- Assistant Professor of Mathematics, Johns Hopkins University, Baltimore, 2001–2004.
- Boas Assistant Professor, Northwestern University, Evanston, 1999–2001.
- Visiting Professor of Mathematics, Northwestern University, Evanston, 1998–1999.

Teaching Experience

- **UCSD:**
Undergraduate Courses: Calculus, Introduction to Mathematical Reasoning.
Graduate Courses: Topics in Geometry and Topology, Graduate Topology, Learning Seminar on Geometry and Topology.
- **Johns Hopkins University:**
Undergraduate Courses: Calculus.
Graduate Courses: Graduate Topology.
- **Northwestern University:**
Undergraduate Courses: Calculus, Elementary Number Theory.
Graduate Courses: Graduate Topology.

Honors and Awards

- N.S.F Grant, DMS 1005391, 2010-2013.
- N.S.F Grant, DMS 0705159, 2007-2010.
- N.S.F Grant, DMS 0436600, 2004-2007.
- A.M.S. Centennial Fellowship, 2004-2005.

Professional Activities

- Reviewer for NSF.
- Reviewer for Journals: Advances in Mathematics, American Journal of Mathematics, Duke Mathematical Journal, Expositiones Mathematicae, Geometry and Topology, International Journal of Mathematics, Journal of Pure and Applied Algebra, K-theory Journal.
- Organizer for AMS Special Session in Algebraic Topology, San Diego, January, 2008.

Publications

- J. Morava and N. Kitchloo. *Spin Cobordism Categories in Low Dimensions*, Pure and Applied Mathematics Quarterly, Vol.6, No.2, 295-306, 2010.
- M. Abreu, G. Granja and N. Kitchloo. *Compatible complex structures on symplectic rational ruled surfaces*, Duke Math. Journal, 148, No.3, 539-600, 2009.
- R. Cohen, S. Galatius and N. Kitchloo. *Universal moduli spaces of surfaces with flat connections and cobordism theory*, Advances in Math. 221, 1127-1146, 2009.
- N. Kitchloo. *Dominant K-theory and integrable highest weight representations of Kac-Moody groups*, Advances in Math. 221, 1191-1126, 2009.
- N. Kitchloo and S. Wilson. *The second real Johnson-Wilson theory and non-immersions of RP^n , I, II*, Homology, Homotopy and Applications, Vol. 10, No. 3, 223-290, 2008.
- N. Kitchloo and S. Wilson. *On the Hopf ring of $ER(n)$* , Topology and its Applications, 154, 1608-1640, 2007.
- N. Kitchloo and J. Morava. *Thom prospectra and Loop group representations*, Elliptic Cohomology, London Math. Soc. Lecture Note Series (342), Cambridge Univ. Press, 214-238, 2007.
- N. Kitchloo and S. Wilson. *On Fibrations related to real spectra*, Geometry and Topology, Monographs 10, 231-238, 2006.
- M. Abreu, G. Granja and N. Kitchloo, *Moment maps, symplectomorphism groups and compatible complex structures*, J. Symplectic Geom. 3, 655-670, 2005.
- J. Aguade, C. Broto, N. Kitchloo, and L. Saumell. *Cohomology of the classifying spaces of central quotients of rank two Kac-Moody groups*, J. Math. Kyoto Univ., 45, No.3, 449-488, 2005.
- N. Kitchloo, G. Laures, and S. Wilson. *Splittings of Morava homology Hopf algebras*, Journal of Pure and Applied Algebra, 194, No.1-2, 159-168, 2004.
- N. Kitchloo, G. Laures, and S. Wilson. *On the Morava K-theories of spaces related to BO* , Advances in Mathematics, 189, No.1, 192-236, 2004.
- S. Goette, N. Kitchloo, and K. Shankar. *Diffeomorphism type of the Berger Space*, American Journal of Mathematics, 126, 395-416, 2004.
- T. Bauer, N. Kitchloo, D. Notbohm, and E. Pedersen. *Finite loop spaces are manifolds*, ACTA, 192, No.1, 5-31, 2004.
- N. Kitchloo and G. Laures. *Real structures and Morava K-theories*, K-Theory, 25, 201-214, 2002.
- N. Castellana and N. Kitchloo. *A Homotopy construction of the Adjoint representation for Lie groups*, Proceedings of the Cambridge Mathematical Society, 133, No.3, 399-409, 2002.
- C. Broto and N. Kitchloo. *Classifying spaces of Kac-Moody groups*, Mathematische Zeitschrift, No.240, 621-649, 2002.
- N. Kitchloo and K. Shankar. *On Complexes equivalent to S^3 -bundles over S^4* , International Mathematical Research Notices, 8, 381-394, 2001.
- N. Kitchloo. *Cohomology splittings of Stiefel manifolds*, Journal of the London Mathematical Society, 64.2, 457-471, 2001.

Recent Invited Talks

- International Conference on Algebraic Topology, Warsaw, Poland, 2009.
- International Conference on Algebraic Topology, Bonn, Germany, June 2008.
- International Conference on Algebraic Topology, Johns Hopkins University, March 2007.
- Workshop in Geometry and Topology, Morelia, Mexico, January 2006.

- International Conference on Algebraic Topology, Isle of Skye, Scotland, June 2005.
- Workshop and Conference on Algebraic Topology, Kinosaki, Japan, July 2004.

Background Information

- Nationality: US. Citizen.
- Languages Spoken: English, French, German, Hindi, Portuguese and Spanish.