

Curriculum Vita of Donu Arapura

Education

BSc	1979	McMaster University
MA	1981	Columbia University
PhD	1985	Columbia University

Professional Experience

Professor	1998-	Purdue University
Associate Professor	1991-1998	Purdue University
Postdoctoral Fellow	1988-1989	MSRI
Assistant Professor	1986-1991	Purdue University
Lecturer	1985-1986	University of Pennsylvania

PUBLICATIONS

1. D. Arapura, *The Leray spectral sequence is motivic*, Invent. Math. (to appear)
2. D. Arapura, C. Peterson, *The common invariant subspace problem: an approach via Gröbner bases*. Linear Algebra Appl. 384 (2004)
3. D. Arapura, *Kähler solvmanifolds*. Int. Math. Res. Not. 2004, no. 3, 131–137
4. D. Arapura, *Frobenius amplitude and strong vanishing theorems for vector bundles*. With an appendix by Dennis S. Keeler. Duke Math. J. 121 2004, no. 2, 231–267.
5. D. Arapura, S. Archava, *Kodaira dimension of symmetric powers*. Proc. Amer. Math. Soc. 131 (2003), no. 5, 1369–1372
6. D. Arapura *Higgs fields, Integrability, and Holomorphic Forms*, Motives, polylogarithms and Hodge theory, Part II (Irvine, CA, 1998), 605–624, Int. Press Lect. Ser., 3, II, Int. Press 2002.
7. D. Arapura, *A class of sheaves satisfying Kodaira’s vanishing theorem*, Math. Ann. 318 2000, no. 2, 235–253.
8. D. Arapura, *Building Mixed Hodge structures, The arithmetic and geometry of algebraic cycles*, CRM Proc. 24, AMS 2000
9. D. Arapura, P. Sastry, *Intermediate Jacobians and Hodge structures of Moduli Spaces*, Proc. Indian Acad. Sci., Math. Sci. 110, 1-26, 2000

10. D. Arapura , M. Nori, *Solvable Fundamental Groups of Algebraic Varieties and Kähler Manifolds*, Compositio Mathematica 116; 173-188, 1999
11. D. Arapura, K.-H. Oh, *On the Abel-Jacobi Map for Noncompact Varieties*, Osaka Journal of Mathematics, 1997
12. D. Arapura, *Geometry of Cohomology Support for Local Loci Systems I*. Journal of Algebraic Geometry, 6; 563-597, 1997.
13. D. Arapura, *Fundamental Groups of Smooth Projective Varieties*, in Current Topics in Complex Algebraic Geometry, MSRI Publications, Cambridge University Press, 1995, pp. 1-16.
14. D. Arapura, K.-H. Oh, *Abel's theorem for twisted Jacobians*. Trans. Amer. Math. Soc. 342, 1994
15. D. Arapura, P.Bressler, and M. Ramachandran, *On the Fundamental Group of a Compact Kähler Manifold*. Duke Mathematical Journal, 68(3); 477-488, 1992
16. D. Arapura, *Higgs Line Bundles, Green-Lazarsfeld Sets, and Maps of Kähler Manifolds to Curves*. Bulletin of the American Mathematical Society, 26(2); 310-314, 1992
17. D. Arapura, *Fano Maps and Fundamental Groups*. Lecture Notes in Mathematics, vol. 1479, Springer-Verlag 1991, pp. 10-14
18. D. Arapura, *Local Cohomology of Sheaves of Differential Forms and Hodge Theory*. Journal für die reine und angewandte Mathematik, 409; 172-179, 1990.
19. D. Arapura, *Hodge Theory with Local Coefficients on Compact Varieties*. Duke Mathematical Journal, 61(2); 531-543, 1990.
20. D. Arapura, *A Short Proof of Rohlin's Theorem for Complex Surfaces*. Proceedings of the American Mathematical Society, 108(4); 1143-1144, 1990.
21. D. Arapura, *Hodge theory with local coefficients and fundamental groups of varieties*. Bull. Amer. Math. Soc. 20, 1989, no. 2, 169–172.
22. D. Arapura, *On Kodaira Vanishing for Singular Varieties*. Proceedings of the American Mathematical Society, 105(4); 911-916, 1989.
23. D. Arapura, *Smoothable Varieties with Torsion Free Canonical Sheaf*. Manuscripta Mathematica, 63; 17-20, 1989
24. D. Arapura, *Vanishing Theorems for V-manifolds*. Proceedings of the American Mathematical Society, 102(1); 43-48, 198

25. D. Arapura, *A Note on Kollár's Theorem*. Duke Mathematical Journal, 53(4); 1125-1130, 1986.

Book Review

1. Shafarevich maps and automorphic forms, by János Kollár, Princeton University Press. In Bulletin of the American Mathematical Society, 33(2); 283-286, 1996.

Ph.D. Theses Supervised

1. Tonghang Zhou (co-supervised with J. Lipman), *Algebraic Chern Classes In De Rham Cohomology*, 1991
2. Karen Hunt *Linking Numbers For Algebraic Cycles Through Isolated Singularities*, 1996
3. Jaydeep Chipalkatti, *A Generalization of Castelnuovo Regularity to Grassman Manifolds*, 1999
4. Agneet Dhillon, *Hodge Theory for Algebraic Stacks and the Cohomology of the Moduli Space of Stable Bundles*, 2003
5. Razvan Veliche, *Some results on fundamental groups of Kähler manifolds*, 2004