Bibliography Phillip A. Griffiths

Books

(with J. Adams) Topics in algebraic and analytic geometry. Princeton University Press, 1974, vi+219 pp.

Entire holomorphic mappings in one and several complex variables. Princeton University Press, 1976, x+99 pp.

(with J. Harris) *Principles of algebraic geometry*. Pure and Applied Mathematics. John Wiley & Sons, New York, 1978, xii+813 pp.

An introduction to the theory of special divisors on algebraic curves. CBMS Regional Conference Series in Mathematics, 44. American Mathematical Society, Providence, R.I., 1980, v+25 pp.

(with J. Morgan) *Rational homotopy theory and differential forms*. Progress in Mathematics, 16. Birkhäuser, Boston, Mass., 1981, xi+242 pp.

(with E. Arbarello, M. Cornalba and J. Harris) *Geometry of algebraic curves*. Vol. I. Grundlehren der Mathematischen Wissenschaften [Fundamental Principles of Mathematical Science], 267. Springer-Verlag, New York-Berlin, 1985, xvi+386 pp.

(with G. Jensen) *Differential systems and isometric embeddings*. Annals of Mathematics Studies, 114. The William H. Roever Lectures in Geometry. Princeton University Press, 1987, xii+226 pp.

Introduction to algebraic curves. Translated from the Chinese by Kuniko Weltin. Translations of Mathematical Monographs, 76. American Mathematical Society, Providence, RI, 1989, x+221 pp.

(with R. Bryant, S.S. Chern, R Gardner, H. Goldschmidt) *Exterior differential systems*. Mathematical Sciences Research Institute Publications, 18. Springer-Verlag, New York, 1991, viii+475 pp.

(with R. Bryant and D. Grossman) *Exterior differential systems and Euler-Lagrange partial differential equations*. University of Chicago Press, 2003, vii+213 pp.

(with M. Green) On the tangent space to the space of algebraic cycles on a smooth algebraic variety (Annals of Math Studies, 157. Princeton University Press, Princeton, NJ, 2005, vi+200 pp. ISBN: 0-681-12044-7.

(with E. Arbarello, M. Cornalba) *Geometry of algebraic curves. Vol II*, Fundamental Principles of Mathematical Sciences, 268, Springer, Heidelberg, 2011.

(with M.Green and M. Kerr) *Mumford-Tate Groups and Domains: Their Geometry and Arithmetic,* Annals of Mathematics Studies, Princeton University Press, Vol 183, 2012.

(with M. Green and M. Kerr) *Hodge Theory, Complex Geometry, and Representation Theory,* Regional Conference Series in Mathematics, No 118, AMS, 2013.

(with J. Morgan) *Rational Homotopy Theory and Differential Forms*, Series: Progress in Math Vol 16, 2nd edition, Birkhauser Basel 2013.

(with E. Cattani, F. El Zein and L.D. Tráng) Hodge Theory, Princeton University Press, 2014.

(with M. Green and C. Robles) *Hodge Theory and L²-Analysis*, Higher Education Press and International Press, summer 2017.

The Selected Works of Phillip A. Griffiths with Commentary. Providence, R.I.: American Mathematical Society, 2003-2017, 6 v.

Papers

On a theorem of Chern, Illinois J. Math. 6 (1962) 468-479.

On certain homogeneous complex manifolds. Proc. Nat. Acad. Sci. U.S.A. 48 (1962) 780-783.

Some geometric and analytic properties of homogeneous complex manifolds, I. Sheaves and cohomology. Acta Math. 110 (1963) 115-155.

Some geometric and analytic properties of homogeneous complex manifolds. II. Deformation and bundle theory. Acta Math. 110 (1963) 157-208.

On the differential geometry of homogeneous vector bundles. Trans. Amer. Math. Soc. 109 (1963) 1-34.

Some remarks of automorphisms, analytic bundles, and embeddings of complex algebraic varieties. Proc. Nat. Acad. Sci. U.S.A. 49 (1963) 817-820.

(with J.A. Wolf) Complete maps and differentiable coverings. Michigan Math. J. 10 (1963) 253-255.

Deformations of G-structures, Part A: General theory of deformations. Math. Ann. 155 (1964) 292-315.

On the theory of variation of structures defined by transitive, continuous pseudogroups. Osaka J. Math. 1 (1964) 175-199.

Deformations of holomorphic mappings. Illinois J. Math. 8 (1964) 139-151.

The extension problem for compact submanifolds of complex manifolds, I. The case of a trivial normal bundle. Proc. Conf. Complex Analysis (Minneapolis) (1964) 113-142.

Hermitian differential geometry and the theory of positive and ample holomorphic vector bundles. J. Math. Mech. 14 (1965) 117-140.

Deformations of G-structures, Part B: Deformations of geometric G-structures. Math. Ann. 158 (1965) 326-351.

On the existence of a locally complete germ of deformation of certain G-structures. Math. Ann. 159 (1965) 151-171.

The extension problem in complex analysis, II. Embeddings with positive normal bundle. Amer. J. Math. 88 (1966) 366-446.

The residue calculus and some transcendental results in algebraic geometry, I. Proc. Nat. Acad. Sci. U.S.A. 55 (1966) 1303-1309.

The residue calculus and some transcendental results in algebraic geometry, II. Proc. Nat. Acad. Sci. U.S.A. 55 (1966) 1392-1395.

Some results on locally homogeneous complex manifolds. Proc. Nat. Acad. Sci. U.S.A. 56 (1966) 413-416.

Some remarks and examples on continuous systems and moduli. J. Math. Mech. 16 (1967) 789-802.

Periods of integrals on algebraic manifolds, I. Construction and properties of the modular varieties. Amer. J. Math. 90 (1968) 568-626.

Periods of integrals on algebraic manifolds, II. Local study of the period mapping. Amer. J. Math. 90 (1968) 805-865.

Some results on algebraic cycles on algebraic manifolds. Proceedings of the International Conference on Algebraic Geometry, Tata Institute (Bombay) (1968) 93-191 Oxford Univ. Press, London.

On the periods of integrals on algebraic manifolds. Rice Univ. Studies 54 no. 4 (1968) 21-38.

On the periods of certain rational integrals, I, II. Ann. Math. (2) 90 (1969) 460-495 and 496-541.

(with W. Schmid) Locally homogeneous complex manifolds. Acta Math. 123 (1969) 253-302.

Hermitian differential geometry, Chern classes, and positive vector bundles. Global Analysis (Papers in Honor of K. Kodaira) (1969) 185-251 Univ. Tokyo Press, Tokyo.

Deformation of complex structures. (Russian) Uspehi Mat. Nauk 24 (1969) no. 4 (148) 153-176.

Seminar on Degeneration of Algebraic Varieties. Lecture 1: Some background and generalities. Institute for Advanced Study (1969) 1-5.

Deformation of complex structures. (1970) Global Analysis (Proc. Sympos. Pure Math., Vol. XV, Berkeley, Calif., 1968) 251-273 Amer. Math. Soc., Providence, R.I.

Periods of integrals on algebraic manifolds, III. Some global differential-geometric properties of the period mapping. Inst. Hautes Études Sci. Publ. Math. No. 38 (1970) 125-180.

Periods of integrals on algebraic manifolds: Summary of main results and discussion of open problems. Bull. Amer. Math. Soc. 76 (1970) 228-296.

A theorem on periods of integrals of algebraic manifolds. Rice Univ. Studies 56 (1970) no. 2, 143-152 (1971).

A transcendental method in algebraic geometry. Actes du Congrès International des Mathématiciens (Nice, 1970) Tome 1, 113-119. Gauthier-Villars, Paris, 1971.

Some transcendental methods in the study of algebraic cycles. Several complex variables, II (Proc. Internat. Conf., Univ. Maryland, College Park, Md.) (1970) 1-46. Lecture Notes in Math., Vol. 185, Springer, Berlin, 1971.

Two theorems on extensions of holomorphic mappings. Invent. Math. 14 (1971) 27-62.

Complex-analytic properties of certain Zariski open sets on algebraic varieties. Ann. of Math. (2) 94 (1971) 21-51.

Holomorphic mappings into canonical algebraic varieties. Ann. of Math. (2) 93 (1971) 439-458.

Function theory of finite order on algebraic varieties. I(A). J. Differential Geometry 6 (1971/72) 285-306.

Function theory of finite order on algebraic varieties. I(B) J. Differential Geometry 7 (1972) 45-66.

(with J. Carlson) A defect relation for equidimensional holomorphic mappings between algebraic varieties. Ann. of Math. (2) 95 (1972) 557-584.

(with C. Clemens) The intermediate Jacobian of the cubic threefold. Ann. of Math. (2) 95 (1972) 281-356.

Holomorphic mappings: Survey of some results and discussion of open problems. Bull. Amer. Math. Soc. 78 (1972) 374-382.

A Schottky-Landau theorem for holomorphic mappings in several complex variables. Symposia Mathematica, Vol. X (Convegno di Geometria Differenziale, INDAM, Rome, 1971) 229-243. Academic Press, London, 1972.

(with J. King) Nevanlinna theory and holomorphic mappings between algebraic varieties. Acta Math. 130 (1973) 145-220.

Two results in the global theory of holomorphic mappings. Contributions to analysis (a collection of papers dedicated to Lipman Bers) 169-183. Academic Press, New York, 1974.

(with J. Carlson) *The order functions for entire holomorphic mappings. Value distribution theory, Part A* (Proc. Tulane Univ. Program, 1972-1973) 225-248. Dekker, New York, 1974.

Some remarks on Nevanlinna theory. Value distribution theory (Proc. Tulane Univ. Program, Tulane Univ., New Orleans, La., 1972-1973) Part A, 1-11. Dekker, New York, 1974.

On the Bezout problem for entire analytic sets. Ann. of Math. (2) 100 (1974) 533-552.

On Cartan's method of Lie groups and moving frames as applied to uniqueness and existence questions in differential geometry. Duke Math. J. 41 (1974) 775-814.

(with W. Schmid) *Recent developments in Hodge theory: a discussion of techniques and results.* Discrete subgroups of Lie groups and applications to moduli (Internat. Colloq., Bombay, 1973) 31-127. Oxford Univ. Press, Bombay, 1975.

Differential geometry and complex analysis. Differential geometry (Proc. Sympos. Pure Math., Vol. XXVII, Part 2, Stanford Univ., Stanford, Calif., 1973) 43-64. Amer. Math. Soc., Providence, R.I., 1975.

(with M. Cornalba) Analytic cycles and vector bundles on non-compact algebraic varieties. Invent. Math. 28 (1975) 1-106.

(with M. Cornalba) *Some transcendental aspects of algebraic geometry*. Algebraic geometry (Proc. Sympos. Pure Math., Vol. 29, Humboldt State Univ., Arcata, Calif., 1974) 3-110. Amer. Math. Soc., Providence, R.I., 1975.

(with P. Deligne, J. Morgan and D. Sullivan) *Real homotopy theory of Kähler manifolds*. Invent. Math. 29 (1975) no. 3, 245-274.

(with M. Cowen) Holomorphic curves and metrics of negative curvature. J. Analyse Math. 29 (1976) 93-153.

Variations on a theorem of Abel. Invent. Math. 35 (1976) 321-390.

On Abel's differential equations. Algebraic geometry (J. J. Sylvester Sympos., Johns Hopkins Univ., Baltimore, Md., 1976) 26-51. Johns Hopkins Univ. Press, Baltimore, Md., 1977.

(with J. Harris) A Poncelet theorem in space. Comment. Math. Helv. 52 (1977) no. 2, 145-160.

(with J. Harris) *Two proofs of a theorem concerning algebraic space curves*. Proceedings of the Eighth National Mathematics Conference (Arya-Mehr Univ. Tech., Tehran, 1977) 350-370, Arya-Mehr Univ. Tech., Tehran, 1977.

(with S.S. Chern) *Linearization of webs of codimension one and maximum rank*. Proceedings of the International Symposium on Algebraic Geometry (Kyoto Univ., Kyoto, 1977) 85-91, Kinokuniya Book Store, Tokyo, 1978.

(with J. Harris) Residues and zero-cycles on algebraic varieties. Ann. of Math. (2) 108 (1978) no. 3, 461-505.

(with S.S. Chern) Abel's theorem and webs. Jahresber. Deutsch. Math.-Verein. 80 (1978) no. 1-2, 13-110.

(with J. Harris) On Cayley's explicit solution to Poncelet's porism. Enseign. Math. (2) 24 (1978) no. 1-2, 31-40.

Complex differential and integral geometry and curvature integrals associated to singularities of complex analytic varieties. Duke Math. J. 45 (1978) no. 3, 427-512.

(with S.S. Chern) *An inequality for the rank of a web and webs of maximum rank*. Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) 5 (1978) no. 3, 539-557.

A theorem concerning the differential equations satisfied by normal functions associated to algebraic cycles. Amer. J. Math. 101 (1979) no. 1, 94-131.

Complex analysis and algebraic geometry. Bull. Amer. Math. Soc. (N.S.) 1 (1979) no. 4, 595-626.

(with J. Harris) Algebraic geometry and local differential geometry. Ann. Sci. École Norm. Sup. (4) 12 (1979) no. 3, 355-452.

Die Geometrie in der zeitgenossischen Mathematik, Jahrbuch / Akademie der Wissenschaften in Gottingen, Vandenhoeck & Ruprecht in Gottingen (1979).

Some problems in complex analytic geometry with growth conditions. Proceedings of the International Congress of Mathematicians (Helsinki, 1978) 645-651, Acad. Sci. Fennica, Helsinki, 1980.

(with J. Harris) On the variety of special linear systems on a general algebraic curve. Duke Math. J. 47 (1980) no. 1, 233-272.

(with M. Green) *Two applications of algebraic geometry to entire holomorphic mappings*. The Chern Symposium 1979 (Proc. Internat. Sympos., Berkeley, Calif., 1979) 41-74, Springer, New York-Berlin, 1980.

(with J.A. Carlson) *Infinitesimal variations of Hodge structure and the global Torelli problem*. Journées de Géometrie Algébrique d'Angers, Juillet 1979/Algebraic Geometry, Angers, 1979, 51-76, Sijthoff & Noordhoff, Alphen aan den Rijn--Germantown, Md., 1980.

An infinitesimal invariant for normal functions, Daisu Shinpojiumu Hokokushui, Proceedings of the algebrais Symposium, Kanron oyobi Daisukikagaku, Ring Theory and Algebraic Geometrictry, Hyogo-ken Kyoiku Kaikan, Hyogo Prefecture Educational Hall, Nihon Sugaku Kai Japan Mathematical Society (1980) 277-309.

(with R. Donagi) Neron models for general normal functions (unpublished notes, 1980).

(with S.S. Chern) Corrections and addenda to our paper: "Abel's theorem and webs" [Jahresber. Deutsch. Math.-Verein. {80} (1978) no. 1-2, 13-110; MR 80b:53008]. Jahresber. Deutsch. Math.-Verein. 83 (1981) no. 2, 78-83.

An observation on normal functions. Symposia Mathematica, Vol. XXIV (Sympos., INDAM, Rome, 1979) 347-353, Academic Press, London-New York, 1981.

(with E. Berger and R. Bryant) *Some isometric embedding and rigidity results for Riemannian manifolds*. Proc. Nat. Acad. Sci. U.S.A. 78 (1981) no. 8, part 1, 4657-4660.

(with R. Bryant and S.S. Chern) *Exterior differential systems*. Proceedings of the 1980 Beijing Symposium on Differential Geometry and Differential Equations, Vol. 1, 2, 3 (Beijing, 1980) 219-338, Science Press, Beijing, 1982.

(with S.S. Chern) *Pfaffian Systems in Involution*, Proceedings of the 1982 Beijing Symposium on Differential Geometry and Differential Equations.

Poincaré and algebraic geometry. Bull. Amer. Math. Soc. (N.S.) 6 (1982) no. 2, 147-159.

(with J. Carlson, M. Green and J. Harris) *Infinitesimal variations of Hodge structure*. I. Compositio Math. 50 (1983) no. 2-3, 109-205.

(with J. Harris) *Infinitesimal variations of Hodge structure, II. An infinitesimal invariant of Hodge classes.* Compositio Math. 50 (1983) no. 2-3, 207-265.

Infinitesimal variations of Hodge structure. III. Determinantal varieties and the infinitesimal invariant of normal functions. Compositio Math. 50 (1983) no. 2-3, 267-324.

(with E. Berger and R. Bryant) *The Gauss equations and rigidity of isometric embeddings*. Duke Math. J. 50 (1983) no. 3, 803-892.

(with R. Bryant and D. Yang) Characteristics and existence of isometric embeddings. Duke Math. J. 50 (1983) no. 4, 893-994.

(with R. Bryant) Some observations on the infinitesimal period relations for regular threefolds with trivial canonical bundle. Arithmetic and geometry, Vol. II, 77-102, Progr. Math., 36, Birkhäuser Boston, Boston, Mass. (1983).

Linearizing flows and a cohomology interpretation of Lax equations. Seminar on nonlinear partial differential equations (Berkeley, Calif., 1983) 37-46, Math. Sci. Res. Inst. Publ., 2, Springer, New York-Berlin, (1984).

(with L. Tu) Variation of Hodge structure. Topics in transcendental algebraic geometry (Princeton, N.J., 1981/1982) 3-28, Ann. of Math. Stud., 106, Princeton Univ. Press, Princeton, NJ, 1984.

(with L. Tu) Curvature properties of the Hodge bundles. Topics in transcendental algebraic geometry (Princeton, N.J., 1981/1982) 29-49, Ann. of Math. Stud., 106, Princeton Univ. Press, Princeton, NJ, 1984.

(with L. Tu) *Infinitesimal variation of Hodge structure*. Topics in transcendental algebraic geometry (Princeton, N.J., 1981/1982) 51-61, Ann. of Math. Stud., 106, Princeton Univ. Press, Princeton, NJ, 1984.

(with L. Tu) Asymptotic behavior of a variation of Hodge structure. Topics in transcendental algebraic geometry (Princeton, N.J., 1981/1982) 63-74, Ann. of Math. Stud., 106, Princeton Univ. Press, Princeton, NJ, 1984.

(with L. Tu) *Infinitesimal variation of Hodge structure and the generic global Torelli theorem*. Topics in transcendental algebraic geometry (Princeton, N.J., 1981/1982) 227-237, Ann. of Math. Stud., 106, Princeton Univ. Press, Princeton, NJ, 1984.

Infinitesimal invariant of normal functions. Topics in transcendental algebraic geometry (Princeton, N.J., 1981/1982) 305-316. Ann. of Math. Stud., 106, Princeton Univ. Press, Princeton, NJ, 1984.

(with J. Harris) On the Noether-Lefschetz theorem and some remarks on codimension-two cycles. Math. Ann. 271 (1985) no. 1, 31-51.

(with R. Bryant) Reduction for constrained variational problems and $\int \kappa^2/2 \, ds$. Amer. J. Math. 108 (1986) no. 3, 525-570.

Linearizing flows and a cohomological interpretation of Lax equations. Amer. J. Math. 107 (1985) no. 6, 1445-1484 (1986).

Some aspects of exterior differential systems. Complex geometry and Lie theory. (Sundance, UT, 1989) 151-173, Proc. Sympos. Pure Math., 53, Amer. Math. Soc., Providence, RI, (1991).

S. S. Chern: always changing, always the same. Chern–a great geometer of the twentieth century, 117-120, Internat. Press, Hong Kong, 1992.

(with R. Bryant) Characteristic cohomology of differential systems, I. General theory. J. Amer. Math. Soc. 8 (1995) no. 3, 507-596.

(with R. Bryant) Characteristic cohomology of differential systems, II. Conservation laws for a class of parabolic equations. Duke Math. J. 78 (1995) no. 3, 531-676.

(with R. Bryant and L. Hsu) *Hyperbolic exterior differential systems and their conservation laws*. I. Selecta Math. (N.S.) 1 (1995) no. 1, 21-112.

(with R. Bryant and L. Hsu) *Hyperbolic exterior differential systems and their conservation laws*. II. Selecta Math. (N.S.) 1 (1995) no. 2, 265-323.

(with R. Bryant and L. Hsu) *Toward a geometry of differential equations*. Geometry, Topology, & Physics, for Raoul Bott, edited by S.-T. Yau, International Press, Boston (1995) 1-76.

A classical complex analyst encounters a post-modern mathematical object. Boletín de la Asociación Matemática Venezolana VIII (2001) no. 2, 183-195.

(with M. Green) Abel's differential equations, Houston J. Math. 28 (2002) no. 2, 329-351.

(with M. Green) The regulator map for a general curve. Contemporary Math. 312 (2002) 117-127.

(with M. Green) An interesting 0-cycle, Duke Math Journal 119, No. 2, 203, 261-313.

(with M. Green) *Hodge theoretic invariants of algebraic cycles*, International Mathematical Research Notices, 9 (2003), 477-510.

(with M. Green and K. Paranjape) Cycles over fields of transcendence degree one, Michigan Math. J. 52 (2004), 181-187.

Hodge Theory and Geometry, Bulletin of the London Mathematical Society, vol. 36, (November 2004), no. 6, 721-757.

(with R. Bryant and D. Grossman) Exterior differential systems and Euler-Lagrange partial differential equations, Uni. Chicago Press (2004)

(with M. Green) Formal deformation of Chow groups, The legacy of Niels Henrik Abel, Springer, Berlin (2004), 467-509.

The legacy of Abel in algebraic geometry, The legacy of Niels Henrik Abel, Springer, Berlin (2004), 179-206.

(with M. Green) *Algebraic cycles and singularities of normal functions II*, Inspired by S.S. Chern, Nankai Tracts Math., 11, World Sci. Publ., Hackensack, NJ (2006), 179-268.

(with M. Green) *Algebraic cycles and singularities of normal functions I*, Algebraic Cycles and Motives, LMS Lecture Note Series no. 343 (2007), 206-263.

(with M. Green and M. Kerr) Néron models and boundary components for degenerations of Hodge structure of mirror quintic type, Contemporary Mathematics, 465, (2008),71-145.

(with J. Carlson) What is a period domain?, Notices of the AMS, 55, No. 11, (2008) 1418-1419.

(with J. Carlson and M. Green) Variations of Hodge structure considered as an exterior differential system: old and new results, SIGMA, 5 (2009).

(with M. Green and M. Kerr) *Some enumerative global properties of variations of Hodge structure*, Moscow Math. No. 9, (2009), 469-530.

Singularities of admissable normal function, Cycles, motives and Shimura varieties, Tata Inst. Fund. Res. Stud. Math., Tata Inst. Fund. Res., Mumbai, (2010), 101-129.

(with M. Green and M. Kerr) Néron models and limits of Abel-Jacobi mappings. Compos. Math. 146 No 2. (2010), 288–366.

(with M. Green) *Correspondence and cycle spaces: A result comparing their cohomologies*, Clay Mathematics Proceedings 18 (2013) 329-360.

(with C. Robles and D. Toledo) *Quotients of non-classical flag domains are not algebraic*, Algebraic Geometry 1 (2014), 1-13.

(with M. Green and M. Kerr) *Special values of automorphic cohomology classes*, Memoirs of the AMS, Vol 231, No 1088, (2014).

(with M. Green, C. Robles) *Extremal degenerations of polarized Hodge structures*, Hodge Theory and L² analysis, ALM 39, 319-374 (2014).

(with M. Green) *Deformation theory and limiting mixed Hodge structures*, London Math Sci Lecture Notes 427, Cambridge Univ Press, (2016) 88-133.

(with M. Green) P. Grffiths, Positivity of vector bundles and Hodge theory, 2018. arXiv 1803-07405v2

(with M. Green, R. Laza, and C. Robles) *Period Mappings and Ampleness of the Hodge line bundle*, 2020. arXiv 1708.09523v3

(with M. Green and C. Robles) Towards a maximal completion of a period map, 2021. arXiv 2010.06720v2

(with M. Green and C. Robles) Natural line bundles on completions of period mappings, 2021. arXiv 2010.06720

Hodge theory and moduli, Contemporary Mathematics Volume 766, AMS, (2021) 163-200.

(with M. Green and C. Robles) Completions of period mappings: Progress Report, 2021. arXiv:2106.04691