

Curriculum Vitae of Pit-Mann Wong

Professional Address:

Department of Mathematics, University of Notre Dame, Notre Dame, IN 46556 USA
Tel. 574-631-7586
e-mail: pmwong@nd.edu
personal webpage: www.nd.edu/pmwong

Home Address:

15815 Walnut Pointe, Granger, Indiana 46530 USA
Tel. 574-272-7109

Educations

National Taiwan University: 1967-71: B.Sc.
University of Notre Dame: 1971-1976: Ph.D.

Honors

Alfred P. Sloan Research Fellowship (1984)
Frank O'Malley Teaching Award (2001)
Kaneb Teaching Award (2002)
Madden Teaching Award (2003)
ICCM 45 minutes address (2004, 2007)
Notre Dame Asian Pacific Alumni Award (2005)
Kaneb Fellow (2008)

Editorial Board

International Journal of Geometry and Topology.

Research Grant

- (1) NSF Travel Grant (with X. Liu) DMS06-46825.
- (2) NSF Grant DMS07-13348.
- (3) Grant from Fields Institute and NSF for special program at Fields.

Conferences Organized (last three years)

- (1) Co-organizers (with R. Bryant, Duke University and X. Liu, University of Notre Dame): International Workshop on Calibrations at the American Institute of Mathematics, June 2006.
- (2) Co-organizers (with D. Palov, Bauman Institute Moscow): International Workshop on Finsler Extensions of Relativity Theory, Cairo, Egypt November 2006.
- (3) Co-organizers (with J. Bland (University of Toronto), S. Kulad (University of Toronto), K. Consani (John-Hopkins University), M. Ru (University of Houston) and P. Vojta (UC Berkely): Special Year in Diophantine Geometry and Several Complex Variables July-December 2008.
- (4) Co-organizers (with D. Bao, San Fransico State, Z. Shen, IUPUI): International Conference on Finsler geometry. (to be held, tentative, in March 2008).

Positions Held:

2007 January - April: Visiting Professor, University of Hong Kong, Hong Kong
2006 November and December: Visiting Professor, Academy of Science, Hanoi, Vietnam

2006 September and October: Visiting Professor, Academy Sinica, Taiwan
 2004 July and August: Visiting Professor National Academy of Science, Beijing, China
 2002 December – 2003 January Visiting Professor Academy Sinica, Taiwan
 2002 July and August: Visiting Professor Academy Sinica Taiwan
 2001 December: Visiting Professor Academy Sinica Taiwan
 1998 July and August: Visiting Professor Academy Sinica Taiwan
 1998 June: Visiting Professor Univeristy of Paris Sud, Orsay
 1997 Summer: Visiting Professor National Tsing-Hua University, Taiwan
 1996 Summer: Visiting Professor Academy Sinica, Taiwan
 1995: Visiting Professor MSRI, Berkeley, Co-organizer: speical year in diophantine approximation and Nevanlinna theory
 1993 Summer: Visiting Professor SFB Geometry and Analysis, Göttingen, Germany
 1991 Summer: Visiting Professor SFB Geometry and Analysis, Göttingen, Germany
 1990 Summer: Visiting Professor SFB Geometry and Analysis, Göttingen, Germany
 1986- Professor, University of Notre Dame
 1986 Summer: Visiting Associate Professor Max-Planck Institut Für Mathematik, Bonn, West Germany
 1985-1986: Visiting Associate Professor, Harvard University
 1985 Summer: Visiting Professor University of San Diego
 1984-1985: Associate Professor with tenure, University of Notre Dame
 1983 Summer: Visiting Associate Professor, Universität Wuppertal, Germany
 1982-1983: Member, Institute for Advanced Study, Princeton
 1981-1982 Associate Professor, University of Notre Dame
 1980-1981 Associate Professor, Tulane University
 1978-1980 Assistant Professor, Tulane University
 1977-1978 Assistant Professor, Rice University
 1976-1977 Assistant Professor, Tulane University

Invited Lectures (last three years)

Invited speaker at annual meeting of Fields Institute, Toronto, Canada (June 2008)
 Colloquium speaker at UC Riverside (May 2008)
 Colloquium speaker at UC Irvine (May 2008)
 Seminar speaker at Ohio State University, Colombus, OH (March 2008)
 Invited speaker at Conference in Finsler Feometry, IUPUI (March 2008)
 Invited speaker at the 4-th ICCM in Hangzou, China (December 2007)
 Invited speaker at the AMS regional meeting in Chicago: Special session on CR-geometry (October 2007)
 Invited speaker at the International Conference on Holomorphic curves and Applications, Montreal, Canada (May 2007)
 Invited speaker at the International Conference on Complex Analysis and Applications, Osaka, Japan (August 2007)
 Colloquium speaker at the University of Science and Technology, Hong Kong (February 2007)
 Invited speaker at the International Conference on Number Theory and Related Topics, Hanoi, Vietnam (December 2006)
 Invited speaker at the International Conference on Finsler Extensions of Relativity Theory, Cairo, Egypt (November 2006)

- Colloquium speaker at National Taiwan University, Taiwan (October 2006)
 Colloquium speaker at Fujin University Taiwan (October 2006)
 Colloquium speaker at Academia Sinica, Taiwan (October 2006)
 Colloquium speaker at the Center of Theoretical Science, Tsinghua University, Taiwan (September 2006)
 Invited speaker at the International Conference on Finsler Geometry, Sapporo, Japan (September 2006)
 Invited speaker at the International Conference on Finsler Geometry, Sapporo, Japan (September 2005)
 Colloquium speaker at UC Riverside (April 2006)
 Invited speaker at the International Conference on Differential Geometry, Several Complex Variables and Partial Differential Equations in honor of S. Baoundi, Notre Dame (June 2006)
 Invited speaker at the International Conference on Finsler Extensions and Relativity in Cairo, Egypt (to be held in November 2006)
 Invited speaker at the International Conference on Number Theory, Hanoi, Vietnam (to be held in December 2006)

Refereed Publications

- [1] Pit-Mann Wong: *Defect relation on parabolic manifolds and Kobayashi metric on \mathbf{P}^n omitting hyperplanes*. Notre Dame Thesis (1976).
- [2] Nessim Sibony and Pit-Mann Wong: *Capacite et proprietes globules d'ensembles analytiques*. Univ. Aix Marseille I, Marseille (1977). MR 81d:32035.
- [3] Nessim Sibony and Pit-Mann Wong: *Some results on global analytic sets*. Sem. Pierre Lelong-Henri Skoda, 1978/1979 Springer Lecture Notes, **882** (1980), 221-237. MR 82h:32017.
- [4] Nessim Sibony and Pit-Mann Wong: *Some remarks on the Casorati-Weierstrass theorem*. Proc. Symp. Pure Math. AMS vol. **35** (1980), 91-96. MR 80i:32054.
- [5] Pit-Mann Wong: *Holomorphic maps into Abelian varieties*. Am. J. of Math. **102** (1980), 493-502. MR 82d:32018.
- [6] Nessim Sibony and Pit-Mann Wong: *Some remarks on value distribution theory*. Ann. Polon. Math. XXXIX (1981), 165-174. MR 82k:32015.
- [7] James Mulflur, Al Vitter and Pit-Mann Wong: *Holomorphic functions of finite order on affine varieties*. Duke Math. J. **48** (1981), 493-502. MR 83a:32012.
- [8] Pit-Mann Wong: *Geometry of the complex homogeneous Monge-Ampère Equation*. Invent. Math. **67** (1982), 261-274. MR 84b:32025.
- [9] Giorgio Patrizio and Pit-Mann Wong, *Stability of the Monge-Ampère Foliation*. Math. Ann. **263** (1983), 13-29. MR 84f:32020.
- [10] H. Royden and Pit-Mann Wong : *On the Caratheodory and Kobayashi metric on strictly convex domains*. (1983)
- [11] Pit-Mann Wong: *On umbilical hypersurfaces and uniformization of circular domains*. Proc. Symp. Pure Math. AMS vol. **41** (1984), 225-252. MR 85k:32030.
- [12] Pit-Mann Wong: *Uniformization of parabolic manifolds*. Aspect of Math. vol E9 (1986), 329-353.

- [13] Alan Howard and Pit-Mann Wong (editors), *Contributions to several complex variables*. Aspect of Math. vol E9 (1986).
- [14] Pit-Mann Wong: *Twistor spaces over 6-dimensional Riemannian Manifolds*. Illinois J. of Math. **31** (1987), 274-311.
- [15] Pit-Mann Wong: *Complex homogeneous Monge-Ampère Equation and related problems*. Springer Lecture Notes in Math. **1277** (1987), 303-330.
- [16] K.W. Leung, G. Patrizio and P.M. Wong: *Isometries of intrinsic metrics on strictly convex domains*. Math. Z. **196** (1987), 343-353
- [17] P.-M. Wong: *Stein manifolds centered on compact symmetric spaces of rank one*. In Proceedings of The International Conference on Several Complex Variables, Koyoto, Japan. RIMS Kyoto University, p.18-20 (1988)
- [18] G. Patrizio and Pit-Mann Wong: *Stein Manifolds Centered on Compact Symmetric Spaces of Rank One*. Proceedings of the international conference on several complex variables, Publication RIMS Kyoto University (1988), 18-20.
- [19] Pit-Mann Wong: *On the Second Main Theorem of Nevanlinna Theory*. Amer. J. Math. **111** (1989), 549-583.
- [20] M. J. Kreuzman and Pit-Mann Wong: *Hyperbolicity of negatively curved Kähler manifolds*. Math. Ann. **287** (1990), 47-62
- [21] Pit-Mann Wong: *Second Main Theorems in Number Theory and Nevanlinna Theory*. In "Complex Analysis" Proc. of the international Workshops (dedicated to H. Grauert) (1990), Aspect of Math., Klas Diederich (editor), 331-334
- [22] G. Patrizio and Pit-Mann Wong: *Monge-Ampère functions with large center*. Proc. Symp. AMS **52** (1991), 435-447
- [23] G. Patrizio and Pit-Mann Wong: *Stein manifolds with compact symmetric centers*. Math. Ann. **289** (1991). 355-382
- [24] M. Ru and Pit-Mann Wong: *Integral Points of $\mathbf{P}^n \setminus \{2n+1 \text{ hyperplanes in general position.}\}$* Invent. Math. **106** (1991), 195-216
- [25] Pit-Mann Wong: *Holomorphic Curves in Spaces of Constant Curvature*. Proc. Symp. Conf. at Osaka (1991) in Complex Geometry (Komatsu and Sakane ed.), 201-223
- [26] Pit-Mann Wong: *Diophantine Approximation and The Theory of Holomorphic Curves*. Proc. Symp. Conference in honor of Wilhelm Stoll, Notre Dame University Press (1992), 115-156
- [27] Pit-Mann Wong: *Recent results in hyperbolic geometry and diophantine geometry*. International Symposium on Holomorphic Mappings, Diophantine Geometry and Related Topics, RIMS, Kyoto (1992), 120-135
- [28] G. Dethloff, G. Schumacher and Pit-Mann Wong: *Hyperbolicity of the complements of plane algebraic curves*. Math. Göttingensis, Heft 31 (1992), 1-38
- [29] Wilhelm Stoll and Pit-Mann Wong: *Second Main Theorem of Nevanlinna theory for non-equidimensional meromorphic maps*. Amer. J. Math. **116** (1994), 1031-1071

- [30] G. Dethloff, G. Schumacher and Pit-Mann Wong: *Hyperbolicity of the complements of plane algebraic curves*. Amer. J. Math. **117** (1995), 573-599
- [31] G. Dethloff, G. Schumacher and Pit-Mann Wong: *On the hyperbolicity of the complement of curves in algebraic surfaces: the three components case*. Duke Math. J. **78** (1995), 193-212
- [32] Pit-Mann Wong: *Six Lectures on the Theory of Holomorphic Curves*. Tsing-Hua University Lecture Notes (1997)
- [33] Wilhelm Stoll and Pit-Mann Wong: *The geometry of jet bundles*. (2002) to appear
- [34] T. T.-H. An, J. T.-Y. Wang and Pit-Mann Wong: *Unique range set and uniqueness polynomials in positive characteristic*. Acta Arithmetica, **109** (2003), 259-280
- [35] T. T.-H. An, J. T.-Y. Wang and Pit-Mann Wong: *Strong uniqueness polynomials: the complex case*. Complex Variables, Theory and Applications, **49** (2004), 25-54
- [36] T. T.-H. An, J. T.-Y. Wang and Pit-Mann Wong: *Unique range set and uniqueness polynomials in positive characteristic II*. Acta Arithmetica, **116** (2005), 115-143
- [37] J.-K. Cao and P.-M. Wong: *Finsler Geometry of Projectivized Vector Bundles*. J. Math. Kyoto Univ. **43**, 369-410 (2004)
- [38] K. Chandler and P.-M. Wong: *On the holomorphic sectional and bisectonal curvatures in complex Finsler geometry*, Periodica Mathematica Hungarica **48** (2004), 93-123
- [39] Chandler, J.-K. and P.-M. Wong : *Finsler Geometry of Holomorphic Jet Bundles*. in "A Sampler in Riemann/Finsler Geometry", Cambridge University Press, 107-196 (2004)
- [40] P.-M. Wong : *Recent results in Complex Analysis and Complex Geometry*. Twelve lectures at the Academy of Science, Beijing, China (2004)
- [41] P.-M. Wong and Philip P. W. Wong: *Bisectonal Curvature of Complements of Curves in \mathbf{P}^2* . J. Math. Koyoto University, 45, no. 3 (2005)
- [42] P.-M. Wong: *Finsler Geometry of Logarithmic Jet Bundles*. Proceedings of the 40-th Symposium on Finsler Geometry, Hokkaido University, Sapporo, Japan, p. 111-119 (2005)
- [43] Chandler, J.-K. and P.-M. Wong: *Geometry of Logarithmic Jet Bundles..* to appear in Proceedings of ICCM (2005)
- [44] P.-M. Wong: *Applications of Nevanlinna Theory to Geometric Problems*. Proc. of the third international conference of Chinese mathematicians (ICCM 2004), Proc. of the third international conference of Chinese mathematicians (ICCM 2004), AMS/IP Studies in Advanced Mathematics **42** 523-594 (2007).
- [45] P.-M. Wong: *The Oka-Grauert-Gromov Principle for Holomorphic Bundles*. Handbook of Global Analysis edited by D. Krupka and D. Saunders, 1165-1210 (2007) Elsevier
- [46] P.-M. Wong and Philip P.-W. Wong: *Nevanlinna Theory on Generalized Parabolic Manifolds*. In "Some topics on value distribution and differentiability in complex and p-adic analysis," (edited by A Escassut, W. Tutschke and C. C. Yang), Part I, 1-41 Scientific Press, Beijing (2007)
- [47] P.-M. Wong: *A Survey of Complex Finsler Geometry*. Advanced Studies of Pure Math. **48**, Math. Soc. Japan (Finsler Geometry in memory of Matsumoto 2005), (2007) 375-433.

- [48] H.-F. Law, P.-M. Wong and Philip P.-W. Wong: *The Concepts of General Position and a Second Main Theorem for Non-Linear Divisors*. to appear in *Complex Variables and Elliptic Equations* (2008/2009)
- [49] T. T.-H. An, J. T.-Y. Wang and P.-M. Wong: *On non-Archimedean hyperbolicity*. preprint (2007)
- [50] T. T.-H. An, J. T.-Y. Wang and P.-M. Wong: *Non-archimedean analytic curves in the complements of divisors*. to appear in *Journal of Number Theory* (2008)
- [51] H.-F. Law, P.-M. Wong and Philip P.-W. Wong: *A Second Main Theorem On \mathbf{P}^n For Difference Operator*. to appear in *Science* (2008/2009)
- [52] P.-M. Wong: *Griffiths Conjecture: The case of surfaces*. preprint (2007)
- [53] P.-M. Wong: *Finite Generation of Global Jet Differentials*. In *Complex Analysis and its Applications*, OCAMI Studies **2**, 357-362, Osaka Municipal University Press Osaka (2008)
- [54] P.-M. Wong: *Recent development in Nevanlinna theory*. Proceedings ICCM vol. **2**, 569-609 (2007), Higher Educational Press (Beijing, China)/International Press (Somerville, MA. USA).
- [55] P.-M. Wong and B. Wu: *On the holomorphic sectional curvature of complex Finsler manifolds*. preprint (2007) submitted.
- [56] P.-M. Wong and B. Wu: *The complex analogue of Diecke's and Brickwell's Theorem*. preprint (2007)
- [57] P.-M. Wong and Philip P.-W. Wong: *The Finsler-Ricci tensor on Generalized Finsler Spaces*. to appear in *Tensors* (2008)
- [58] K. Chandler and P.-M. Wong: *The Structure Of The base Locus Of Jet Differentials*. submitted (2008)

Works in progress

- [1] Pit-Mann, Wong: *Holomorphic curves in varieties with nef jet differentials*. under revision
- [2] C.-H. Yu and Pit-Mann Wong: *Hyperbolic Jet Metrics on $\mathbf{P}^n \setminus \{2n+1 \text{ hyperplanes in general position}\}$* . under revision
- [3] Pit-Mann Wong: *On a theorem of Bombieri*. in progress
- [4] Chandler, J.-K. and P.-M. Wong : *Hyperbolicity of complement of curves in \mathbf{P}^2* . in progress
- [5] P.-M. Wong : *Lecture Notes on Nevanlinna Theory*. 250 pages of preprint, under revision
- [6] P.-M. Wong : *Lecture Notes on the Complex Monge-Ampere Equation*. in progress
- [7] P.-M. Wong : *Lecture Notes on Kähler Einstein Manifolds*. 90 pages of preprint
- [8] P.-M. Wong : *Lecture Notes on Riemann-Roch Theorem*. 198 pages of preprint, in progress
- [9] H.-F. Law, P.-M. Wong and Philip P.-W. Wong: *Computations of Characteristic Classes and Numbers*. preprint (2007)