



• 扈培础

1961年生; 教授、博士生导师。

• 学术经历

1998—, 山东大学数学学院, 教授
1996—1998, 山东大学数学学院, 博士后, 副教授
1993—1996, 香港科技大学数学系, 助教
1985—1993, 山东大学数学系, 助教, 讲师

• 行政职务与学术兼职

2003—, 山东大学数学学院基础数学研究所所长
2008—, 济南市政协委员
2011—, 山东大学学报编委(数学)
2008—, *p-Adic Numbers, Ultrametric Analysis, and Applications* 编委
2006—, *Journal of Analysis and Applications* 编委

• 访问经历

2010.7—2010.8, 德国基尔大学, 访问教授
2009.3—2009.4, 香港科技大学, 访问教授
1999.11—1999.12, 日本山形大学, 访问教授
1998.6—1998.8, 香港科技大学, 访问学者
1997.3—1997.8, 香港科技大学, 访问学者

• 学习经历

1996.7, 香港科技大学, 博士学位
1985.7, 山东大学, 硕士学位
1982.7, 山东大学, 学士学位

• 项目

2010—2013, 关于全纯映射的几个问题及相关应用, 山东省自然科学基金面上项目, 负责人
2004—2006, ABC猜想及相关问题, 国家自然科学基金面上项目, 负责人
2000—2002, 多变量复分析和非阿基米德分析中的问题, 国家自然科学基金面上项目, 负责人

• 论著

1. (with C. C. Yang) The second main theorem of holomorphic curves into projective spaces, *Trans. AMS.* S 0002-9947(2011)05394-8.
2. (with Z. Ye) A bound for the discriminant of number fields, *Proc. Amer. Math. Soc.* 139 (2011), 2007-2008.
3. (with B. Q. Li) On meromorphic solutions of nonlinear partial differential equations of first order, *Journal of Mathematical Analysis and Applications* Volume 377, Issue 2, 15 May 2011, Pages 881-888.
4. (with D. W. Meng) Normality criteria of meromorphic functions sharing one value, *Journal of Mathematical Analysis and Applications* Volume 377, Issue 2, 15 May 2011, Pages 881-888.
5. On Griffiths-Lang' conjecture and related topics, *Complex Variables and Elliptic Equations* 56 (2011), 345-361.
6. (with C. C. Yang) A linear homogeneous partial differential equation with entire solutions represented by Bessel polynomials, *Journal of Mathematical Analysis and Applications* 368 (2010), 263-280.

7. (with B. Q. Li) Unicity of meromorphic solutions of partial differential equations, *Journal of Mathematical Sciences* 173 (2011), 201-206; Translated from *Sovremennaya Matematika i Ee Prilozheniya (Contemporary Mathematics and Its Applications)*, Vol. 67, Partial Differential Equations, 2010.
8. (with C. C. Yang) Global solutions of homogeneous linear partial differential equations of the second order, *Michigan Math. J.* 58(2009), 807-831.
9. (with D. W. Meng) Normality criteria of meromorphic functions with multiple zeros, *Journal of Mathematical Analysis and Applications* 357(2009), 323-329.
10. (with C. Meng) Entire functions and their derivatives share two finite sets, *Kyungpook Math. J.* 49(2009), 473-481.
11. (with C. C. Yang) Uniqueness theorems of meromorphic functions in several complex variables, *Scientific Bulletin of Belgorod State University No.13 (68). Issue 17/1 (2009)*, 45-52.
12. (with C. C. Yang) Roth' s theorem and Sabcs-conjecture, *Journal of Shandong University (Natural Science)* 44 (8)(2009), 1-12.
13. (with C. C. Yang) Distribution theory of algebraic numbers, *de Gruyter Expositions in Mathematics* 45, Walter de Gruyter, 2008.
14. Introduction of functions of one complex variable (Chinese), Science Press, Beijing, 2008.
15. (with C. C. Yang) Hyperbolic hypersurfaces of lower degrees, *Some Topics on Value Distribution and Differentiability in Complex and p-adic Analysis*, edited by A. Escassut, W. Tutschke and C. C. Yang, *Mathematics Monograph Series 11*, Science Press, Beijing, 2008, 219-234.
16. (with C. C. Yang) Subspace theorems for homogeneous polynomial forms, *Israel Journal of Mathematics* 157 (2007), 47-61.
17. (with Q. Han) Unicity of meromorphic functions related to their derivatives, *Bull. Berg. Math. Soc. Simon Stevin* 14 no. 5(2007), 905-918.
18. (with C. C. Yang) Value distribution theory related to number theory, *Birkh\” auser*, 2006.
19. (with C. C. Yang) Unique range sets of meromorphic functions on \mathbb{C}^m , *Complex Variables and Elliptic Equations*, 51(2006), 871-911.
20. (with C. C. Yang) A note on Browkin-Brzezi\` nski conjecture, *Contemporary Mathematics* 384 (2005), 101-109.
21. (with C. C. Yang) Value distribution theory and Diophantine approximation, *Analysis in Theory and Applications* 21 (2) (2005), 101-117.
22. (with C. C. Yang) Generalized Fermat and Hall' s conjectures, *Methods of Complex and Clifford Analysis (Proceedings of ICAM, Hanoi, 2004)*.
23. (with C. C. Yang) Jet bundles and its applications in value distribution of holomorphic mappings, *Value Distribution Theory and Related Topics (Edited by G. Barsegian, I. Laine, C. C. Yang)*, *Advances in Complex Analysis and Its Applications Vol. 3*, pp. 281-319, Kluwer Academic Publishers, 2004.
24. (with C. C. Yang) Nevanlinna theory and Diophantine approximations, *Finite and Infinite Dimensional Complex Analysis and Applications (edited by Le Hung Son, W. Tutschke, C. C. Yang)*, *Advances in Complex Analysis and Its Applications Vol. 2*, pp. 1-19, Kluwer Academic Publishers, 2004.
25. (with P. Li and C. C. Yang) Unicity of meromorphic mappings, Kluwer Academic Publishers, 2003.
26. (with C. C. Yang) Unique range sets of non-Archimedean meromorphic functions, *Southeast Asian Bulletin of Mathematics* 27(2003), 1-18.
27. (with X. L. Wang) Waring' s problem over non-Archimedean meromorphic function fields, *Mathematica Applicata (Special Issue, Chinese)* 16(2003), 18-21.
28. (with C. C. Yang) A note on the Sabcs-conjecture, *Communications on Pure and Applied Mathematics, Vol. LV (2002)*, 1089-1103.
29. (with C. C. Yang) A generalized Sabcs-conjecture over function fields, *J. Number Theory* 94 (2002), 286-298.
30. (with C. C. Yang) Some progress in non-Archimedean analysis, *Contemporary Mathematics Vol. 303 (2002)*, 37-50.
31. (with C. C. Yang) Recent topics of dynamics in high Dimensional spaces, *Complex Variables* 43 (2001), 325-339.
32. (with C. C. Yang) Notes on a generalized Sabcs-conjecture over function fields, *Annales Mathematiques Blaise Pascal* 8 (1) (2001), 61-71.

33. (with C. C. Yang) Meromorphic Functions over non-Archimedean Fields, Kluwer Academic Publishers, 2000.
34. (with C. C. Yang) The “abc” conjecture over function fields, Proc. Japan Acad. 76, Ser. A (2000), 118-120.
35. (with C. C. Yang) Defect relations for moving targets, Proceedings of the Second ISAAC Congress (edited by H. G. W. Begehr, R. P. Gilbert and J. Kajiwara), Vol. 1, 271-297, Kluwer Academic Publishers, 2000.
36. (with S. Mori) Elimination of defects of non-Archimedean holomorphic curves, Proceedings of the Second ISAAC Congress (edited by H. G. W. Begehr, R. P. Gilbert and J. Kajiwara), Vol. 1, 433-449, Kluwer Academic Publishers, 2000.
37. (with C. C. Yang) Differentiable and complex dynamics of several variables (book), Kluwer Academic Publishers, 1999.
38. (with C. C. Yang) A survey on p -adic Nevanlinna theory and its applications to differential equations, Taiwanese J. of Math. 3 (1) (1999), 1-34.
39. (with C. C. Yang) On fixed points and factorization of meromorphic mappings, Complex Variables 38 (1999), 155-173.
40. Non-Archimedean dynamics, Research Reports of the Nevanlinna Theory and its Applications II, Nippon Institute of Technology, 1999, 36-41.
41. Value sharing problems in value distribution theory, Research Reports of the Nevanlinna Theory and its Applications II, Nippon Institute of Technology, 1999, 31-36.
42. (with C. C. Yang) A unique range set of p -adic meromorphic functions with $10S$ elements, Acta Mathematica Vietnamica 24 (1) (1999), 95-108.
43. (with C. C. Yang) Fatou-Julia theory in differentiable dynamics, Recent Developments in Complex Analysis and Computer Algebra (R. P. Gilbert et al. (eds.)), Kluwer Academic Publishers, 1999, 113-132.
44. (with C. C. Yang) Dynamics of composite mappings, Proc. Japan Acad. 74(1998), 146-148.
45. (with C. C. Yang) Notes on second main theorems, Complex Variables 37 (1-4) (1998), 251-277.
46. (with C. C. Yang) Invariant sets in dynamics, Bulletin of the Hong Kong Math. Soc. 2(1998), 75-88.
47. Value distribution theory of non-Archimedean meromorphic functions, Post-doctoral Research Reports of Shandong University, 1998.
48. (with C. C. Yang) Open problems of dynamics in higher dimensional spaces, In “Open problems for the Workshop on Value Distribution Theory and its Applications” edited by A. F. Beardon and C. C. Yang, Hong Kong, July 1996, Izvestiya Natsionalnoi Akademii Nauk Armenii. Matematika 32(4) (1997), 9-36.
49. (with C. C. Yang) The Cartan conjecture for p -adic holomorphic curves, Technical Report, The Hong Kong Univ. of Sci. & Tech., 1997; Izvestiya Natsionalnoi Akademii Nauk Armenii. Matematika 32 (4) (1997), 45-80.
50. (with C. C. Yang) Value distribution theory of p -adic meromorphic functions, Technical Report, The Hong Kong Univ. of Sci. & Tech., 1997; Izvestiya Natsionalnoi Akademii Nauk Armenii (National Academy of Sciences of Armenia) 32 (3)(1997), 46-67.
51. Value distribution theory and complex dynamics, Bulletin of the Hong Kong Math. Soc. Vol.1 No.1(1997), 169-172.
52. (with C. C. Yang) Value distribution theory and its applications to meromorphic mappings (Part 2), Journal of the National Institute for Compilation and Translation (Taiwan) 26 (1) (1997), 355-427.
53. (with C. C. Yang) Value distribution theory and its applications to meromorphic mappings (Part 1), Journal of the National Institute for Compilation and Translation (Taiwan) 25 (2) (1996), 321-388.
54. (with C. C. Yang) Fatou-Julia theory in high dimensional spaces, International Workshop on The Value Distribution Theory and Its Applications, Hong Kong, 1996; Bull. of Hong Kong Math. Soc. 1 (2) (1997), 273-287.
55. (with C. C. Yang) On the value distribution of $Sff^{\{k\}}S$, Kodai Math. J. 19(1996), 157-167; MR 97d:30042; Zbl. Math. 867(1997), 30023, p. 149.
56. (with C. C. Yang) Further results on factorization of meromorphic solutions of partial differential equations, Results in Mathematics 30(1996), 310-320; MR 98f:32003; Zbl. Math. 866(1997), 32006, p. 153.
57. (with C. C. Yang) Uniqueness of meromorphic functions on $S\mathbb{C}^m$, Complex

- Variables 30(1996), 235-270; MR 97g:32004; Zbl. Math. 859(1997), 32002, p. 163.
58. (with C. C. Yang) Applications of pseudo volume forms to holomorphic mappings, *Complex Variables* 30(1996), 153-168; MR 98b:32022; Zbl. Math. 856(1997), 32001, p. 189.
59. Value distribution theory and complex dynamics, PhD thesis, The Hong Kong University of Science and Technology, 1996.
60. (with C. C. Yang) The second main theorem for algebroid functions of several complex variables, *Math. Z.* 220(1995), 99-126; MR 96j:32001; Zbl. Math. 826(1996), 32001, p. 162.
61. (with C. C. Yang) Malmquist type theorem and factorization of meromorphic solutions of partial differential equations, *Complex Variables* 27(1995), 269-285; MR 96g:32006; Zbl. Math. 841(1996), 32002, p. 170.
62. (with C. C. Yang) Factorization of holomorphic mappings, *Complex Variables* 27(1995), 235-244; MR 96f:32004; Zbl. Math. 841(1996), 32001, p. 170.
63. Holomorphic mappings between spaces of different dimensions II, *Math. Z.* 215(1994), 187-193; MR 95a:32046; Zbl. Math. 791(1994), 58015, p. 356.
64. Holomorphic mappings between spaces of different dimensions I, *Math. Z.* 214(1993), 567-577; MR 94k:32043; Zbl. Math. 791(1994), 58014, p. 356.
65. (with M. Z. Yang) A theorem of differential mappings of Riemann surfaces, *Internat. J. Math. & Math. Sci.* (1)17(1994), 189-192; MR 94k:30103; Zbl. Math. 801(1995), 30037, p. 149.
66. An extension of Hayman's inequality II, *J. of Shandong University* (2)29(1994), 121-126; MR 96a:30037; Zbl. Math. 813(1995), 30025, p. 154.
67. (with C. C. Yang) Pseudo volume forms and their applications to holomorphic mappings, *Proc. Japan Acad. (A-5)*69(1993), 149-153; MR 94h:32043; Zbl. Math. 811(1995), 32017, p. 164.
68. Value distribution and admissible solutions of algebraic differential equations, *J. of Shandong University* (2)28(1993), 127-133; MR 94h:30040; Zbl. Math. 784(1994), 30026, p. 129.
69. Hayman's points of holomorphic functions, *J. of Shandong University* (4)27(1992), 419-424; MR 94b:30037.
70. (with L. Z. Yang) Admissible solutions of algebraic differential equations, *J. of Shandong University* (1)26(1991), 19-25; MR 93g:34009; Zbl. Math. 744(1992), 34006, p. 194.
71. (with T. Wen) On some problems of value distribution for several variables, *J. of Binzhou Teachers College* (4)7(1991), 1-5.
72. Holomorphic mappings into algebraic varieties of general type II, *Nagoya Math. J.* 120(1990), 171-180; MR 92b:32033; Zbl. Math. 702(1991), 32027, p. 154.
73. Holomorphic mappings into algebraic varieties of general type, *Nagoya Math. J.* 120(1990), 155-170; MR 92b:32033; Zbl. Math. 702(1991), 32026, p. 154.
74. (with T. Wen) Aspects of value distribution theory for holomorphic mappings on complex manifolds, *Advances in Math. (PRC)* (4)19(1990), 385-395; MR 91h:32022; Zbl. Math. 724(1992), 32011, p. 145.
75. A modified defect relation for holomorphic curves, *Kodai Math. J.* (3)13(1990), 349-362; MR 91m:32026; Zbl. Math. 736(1992), 32019, p. 147.
76. The properties of the zero points distribution for the Riemann's Zeta function, *Pure & Applied Math.(PRC)* (2)6(1990), 6-12; MR 96b:11121; Zbl. Math. 862(1997), 11049, p. 71.
77. An extension of Hayman's inequality, *J. of Math.(PRC)* (4)10(1990), 405-412; MR 92c:30033; Zbl. Math. 734(1992), 30031, p. 120-121.
78. A generalization of Chang-Yang Theorem, *J. of Shandong University* (2)25(1990), 137-147; Zbl. Math. 707(1991), 30027, p. 111.
79. An application of the Carleman formula, *Hunan Annals of Math.(PRC)* (1-2)10(1990), 152-156; MR 92j:11089; Zbl. Math. 776(1994), 11049, p. 59.
80. (with T. Wen) On Chern's First Main Theorem of holomorphic maps, *The Symposium to Min Sihe, Shandong Univ. Press*, 1990, 16-23.
81. One characteristic function of meromorphic functions, *J. of Yunmeng (Natural Science)* (3) 43(1990), 1-10.
82. Order and Borel directions of an essential singularity, *J. of Shandong University* 23 (1988), 9-14; Zbl. Math. 681(1990), 30018, p. 110.
83. Meromorphic functions in angular domains, *J. of Shandong University* (3)23(1988), 1-8; Zbl. Math. 679(1990), 30025, p. 118.

84. Meromorphic functions in angular domains, the Postgraduate Office of Shandong University, 1985.
85. A sufficient and necessary condition on Riemann Conjecture, the Postgraduate Office of Shandong University, 1985.
86. Some applications of Carleman Formula, the Postgraduate Union of Shandong University, 1984.

- 已毕业研究生（以入学时间为序）

博士研究生：王新利、韩麒、孟超、孟大伟、白小甜

硕士研究生：李晓玲、吴昊、陈桂玲、孟丽萍、李小娟、亓金锋、李春霖、张继莲、马龙、宋秀芝、张春会

- 在读研究生（以入学时间为序）

博士研究生：高瑞

硕士研究生：孙磊、林泉、张圣凯、楚晨舒，李照秋，栾永志

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地址：济南市山大南路27号 | 邮编：250100 | 电话：0531-88364652 | 传真：0531-88365550