



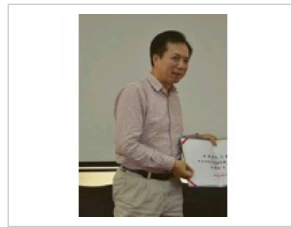
经济数学学院

The school of economic and mathematics



吴志坚（海外院长，博士）

(发布于: 2013-04-20)



吴志坚博士简历:

1961年4月生于福建省福州市, 1977年毕业于福州二中, 1982年春获中国地质大学学士学位, 1984年夏获北京大学数学硕士学位, 1984年~1985年秋任教于北京大学数学系, 1990年夏获美国华盛顿大学数学博士学位。现任美国阿拉巴马大学数学系主任、终身教授, 阿拉巴马大学公共课程监管委员会成员, 大学对外联络成员; 美国数学学会、美国数学协会会员; 还兼任阿拉巴马州教师协会数学学会执行理事、阿拉巴马州高中数学竞赛委员会主席, 阿拉巴马州 Articulation and General Studies 委员会委员, 泰国数学期刊编委等其它校外职务。

吴志坚还是下列学术机构的访问学者、研究员、或客座教授: 瑞典皇家科学院 Mittag-Leffler 数学研究院、澳大利亚麦考瑞大学、美国加州大学伯克利分校数学科学研究所、阿塞拜疆国家科学院数学与机械学院、芬兰数学协会国际数学访问计划、夏威夷大学、古巴哈瓦那大学……等等。

吴志坚的研究领域包括复分析/调和分析, 算子理论和泛函分析, 金融数学、教育学等, 特别在算子理论与风险对冲研究方面作出了许多突出贡献; 主持或参与主持了多个分别由美国国家科学基金、美国民用研究与发展基金、美国教育部、PEW 基金、及阿拉巴马州教育基金立项赞助的科研、教学项目, 经费总额达六百多万美元。先后在《ADVANCES IN ANALYSIS》、《AMERICAN JOURNAL OF MATHEMATICS》、《ARKIV FOR MATEMATIK》、《FINANCIAL MATHEMATICS》、《JOURNAL OF FUNCTIONAL ANALYSIS》、《JOURNAL OF THE LONDON MATHEMATICAL SOCIETY》、《INTRIGAL EQUATION AND OPERATOR THEORY》、《PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY》、《STUDIA MATHEMATICA》、《中国科学》……等国际著名学术刊物上发表了六十多篇学术论文; 应邀到英、德、法、俄、加、日及亚洲、非洲、欧洲、大洋洲、南美洲、北美洲的三十多个国家和地区讲学和访问, 做了上百次的学术报告或讲座。在教研方面, 吴志坚所带领的教师团队, 率先寻求并成功地开创了应用计算机网络多媒体平台教授数学通识课程的新体系, 这一21世纪的教学新模式在过去的十多年里, 吸引了世界上上百多所高校的访问团, 荣获 2009 年 IMS 全球学习联盟 (IMS Global Learning Consortium) 的最高奖。

吴志坚对祖国有着深厚的情感, 近年来多次回国参加各种学术研究、交流活动。还多次在北京大学、科学院数学所、南京大学、武汉大学、中国地质大学、湖南大学、华南理工大学、汕头大学等多所高校及研究机构做学术报告。多次应邀参加了由高教社、全国高校教研中心、全国高校教研会、及教育部科教指导委员会发起的数学课程报告论坛等高教会议, 并作特邀报告。值得一提的是, 吴志坚还曾应邀参加了福建省举办的“院士专家八闽行”活动, 并在“建设科技合作 通道, 提高公众科学素养”的院士专家论坛上, 向包括时任省长卢展工在内的与会者做了题为“教育应面向未来”的建言。

联系方式:

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学位及论文:

博士 (数学): 华盛顿大学 (Washington University), St. Louis, Missouri, USA, 1990.

论文标题: Hankel and Toeplitz operators on Dirichlet spaces

导师: Richard H. Rochberg 教授

硕士 (数学): 北京大学, 1984.

论文标题: Carleson 测度与 H^p 空间中的插值

导师: 沈燮昌教授

学士 (数学): 中国地质大学, 1982.

科研领域:

复分析、调和分析、泛函分析、金融数学

专业会员:

美国数学学会 (American Mathematical Society), 1985 - 至今

美国数学协会 (Mathematical Association of America), 2009 - 至今

阿拉巴马州教师协会数学会委员会及执行理事会 (Alabama Association of College Teachers of Mathematics, and Executive Council), 2004 - 至今

工作经历/任职:

数学系主任、终身教授, 阿拉巴马大学 (The University of Alabama), 1999.8 - 至今 副教授, 阿拉巴马大学, 1994.8 - 1999.8.

助理教授, 阿拉巴马大学, 1990.8 - 1994.8. 助教, 北京大学数学系, 1984.7 - 1985.8.

主讲课程 (courses taught at UA)

《Topics in Analysis》、《Functional Analysis》、《Complex Analysis I&II》、《Real Analysis I&II》、《Special Topics in Applied Math》、《Linear Optimization》、《Topics in Modern Math for Teachers》、《Complex Calculus》、《Applied Statistics I&II》、《Mathematics for Finance》、《Introduction to Real Analysis》、《Theory of Probability》、《Introduction to Numerical Analysis》、《Advance Calculus》、《Applied Differential Equations》、《Applied Matrix Theory》、《Linear Algebra》、《Number and Operations》、《Honor Calculus I, II&III》、《Calculus I, II&III》、《Business Calculus》、《Finite Mathematics》

所指导的部分博士研究生及他们的工作单位

A. 金融数学方向

陈静博士, 2012.8; 论文标题: *Most Likely Path to the Shortfall risk in Long-Term Hedging with Short-Term Futures Contracts.* 目前陈博士正忙于找工作.

Maydison Ginting 博士, 2011.12; 论文标题: *Capping the Variance of Cash Flow of Hedging Strategy.* 目前 Ginting 博士是西阿拉巴马大学 (University of West Alabama) 的助理教授.

Karan Thagunna 博士, 2009.12; 论文标题: *Three Assets Model for Portfolio Selection Under a Constrained Consumption Rate Process.* 目前 Thagunna 博士是尼泊尔加德满都大学 (Kathmandu University) 管理学院的助理教授.

余春辉博士, 2009.12; 论文标题: *Managing Risk with Short Term Futures Contracts.* 目前余博士是阿拉巴马农工大学 (Alabama A&M University) 的助理教授.

郑小华博士, 2009.8; 论文标题: *Volatility Analysis for High Frequency Financial Data.* 目前郑博士任长沙市宁乡县金融证券办公室主任.

许铭博士, 2007.12; 论文标题: *Optimal Consumption Rate under Certain Spending Behavior.* 目前许博士在 (Iowa Grain Company) 就职.

Shawanda R Thomas 博士, 2007.5; 论文标题: *Hedging Strategies for Multiple Commodities.* 目前 Thomas 博士在阿拉巴马州的 Lawson 州立大学 (Lawson State) 任教.

王飞博士, 2005.8; 论文标题: *Mathematical Models For Optimal Hedging Strategies*. 目前王博士在 International Fund Services (N.A.) LLC (纽约) 就职

B. 复分析、调和分析、泛函分析方向

丘玲博士, 2006.12; 论文标题: *Morrey Type Spaces and Carleson Measures*. 目前丘博士在得克萨斯农工大学 Galveston 分校(Texas A&M University)任教.

Miyeon Kwon 博士, 2004.8; 论文标题: *A class of operators on Hardy space in Schatten Von-Neumann class and its properties*. 目前 Kwon 博士是威斯康辛大学 Platteville 分校(University of Wisconsin-Platteville)的副教授.

Nattakorn Sukantamala 博士, 2003.8; 论文标题: *Area operators on Hardy spaces*. 目前 Sukantamala 博士是泰国清迈大学(Chiang Mai University, Thailand)的教授.

Irfan Ul-Haq 博士, 2002.8; 论文标题: *Certain covering property and its application on BMO^p spaces*. 目前 Ul-Haq 博士是威斯康辛大学 Platteville 分校(University of Wisconsin-Platteville)的副教授.

谢春平博士, 2001.8; 论文标题: *O_p spaces and their properties*. 目前谢博士是密尔沃基工学院 (Milwaukee School of Engineering)的教授.

科研基金

A. 独立主持

美国国家科学基金(National Science Foundation), DMS-1200920, *The 28th Southeastern Analysis Meeting*, 2012.1.1-2012.12.31; \$19,800.00

美国民用研究与发展基金(U.S. Civilian Research and Development Foundation), *Potentials and Carleson measures on Besov-Morrey type spaces*, 2008.1-2009.12; \$47,000.00

美国民用研究与发展基金(U.S. Civilian Research and Development Foundation), *Holomorphic and Harmonic Function Spaces, Boundary Values and Operator Theory*, 2004.4-2006.5; \$34,929.00

美国国家科学基金(National Science Foundation), DMS-0200587, *Holomorphic Spaces and Operator Theory*, 2002.6-2007.5; \$97,494.00

美国国家科学基金(National Science Foundation), DMS-9622890, *Function and Operator Theory on Holomorphic Spaces*, 1996.6-1999.5; \$47,394.00

B. 共同主持

美国教育部(U.S. Department of Education), GAANN Fellowships, 2010.7-2013.6; \$131,265.00 美国国家科学基金(National Science Foundation), DGE-0742504, *New, GK-12 Sustainable Energy Systems*, 2008.6-15, 2013.5; \$2,982,282.00

美国国家科学基金(National Science Foundation), DUE-0431668, *Engineering Math Advancement Program*, 2005.1-2009.12; \$973,968.00

美国国家科学基金(National Science Foundation), DGE-0338312, *Graduate Teaching Fellows in Middle and High School Education*, 2004.1-2006.12; \$1,585,616.00 Pew 基金(Pew Grant Program), Course Redesign, 2000.7-2003.5; \$200,000.00 (The Math Technology Learning Center was first constructed by this grant).

出版物及发表的文章

A. 书籍

(3) (with Xiao) *金融数学*, in progress

(2) (with Wu, etc) *文科高等数学*, 清华大学出版社, 将出版

(1) (with Hao, Xie and Wang) *Linear Algebra*. (pp. 250). 高教出版社, 2009, 北京

B. 期刊、会议文集

a) 教研类

(7) (with Li and Xiao) *中美高等院校本科教学学生评估比较*, 北大教育评论, 将发表

(6) Mobius Group, Bergman Metric on the Unit Disk and Reproducing Formulas, (2011 Lewis- Parker Lecture), Alabama Journal of Mathematics, 36 (2011), 1-6.

(5) *四海求才切*, 学府号角先-努力营造创新人才培养的良好环境, 第六届大学数学课程报告论坛, 将发表

(4) 阿拉巴马大学小学教师培养方案评析, 第四届教师教育国际研讨会论文集(2011), 186-195.

(3) (with Xiao and Wu) *Comparison of Calculus Textbooks between PRC and USA*. College Math Research, Vol. 3, 2010, 43-46.

(2) *把握历史契机 迈向教育强国——漫谈当前数学教学方法的变革*, 第四届大学数学课程报告论坛, 2008, 15-20

(1) *美国数学教学改革的回顾与展望*, 第二届大学数学课程报告论坛(2006), 51-57.

b) 科研类

(59) (with Gong) A Note on Distance from Bloch Function to Holomorphic Spaces, to appear

(58) (with Ma and Xu) *Optimal Consumption Rate under Certain Spending Behavior*, to appear

(57) (with Ma and Wang) μ -Best Strategy for Hedging with Short Term Futures Contracts, to appear.

(56) (with Wu) *Volterra Operator from Bergman Spaces to Morrey Spaces*, Eurasian Math. Journal, to appear.

(55) (with Rahman and Haque) *Stochastic Modeling of Damage Evolution in Composites Under Environmental Aging*, Journal of Engineering Mathematics, to appear.

(54) (with Yu and Zheng) *Managing Risk with Short-Term Futures Contracts*. SIAM J. Financial Math, Vol. 2, (2011), 715-726.

(53) *Volterra Operator, Area Integral and Carleson Measures*, Sciences in China, Series A Mathematics, 2011 vol. 54, No. 11 2487-2500.

(52) A New Characterization for Carleson Measures and Some Applications, IEOT, Vol. 71 (2) (2011), 161-180.

(51) (with Guliyev) *Strong-type Estimates and Carleson Measures for Weight Besov-Lipschitz Spaces*, in "Further Progress in Analysis" (Proceedings of the 6th ISAAC Congress), ed. by H. Begehr, etc. World Scientific (2009), 132-141.

(50) (with Gong and Lou) *Area operators from H^p spaces to L^p spaces*, Science in China, 2010 Vol. 53 No. 2: 357-366

(49) (with Kwon) *A Class of Operators on Weighted Bergman Spaces*, Integr. Eq. Oper. Theory, Vol.62(3), 2008, 411-417.

(48) (with R. Zhao, N.Zorboska) *Toeplitz operators on the analytic Besov spaces*, Integr. Eq. Oper. Theory, Vol.60(3), 2008, 435-449.

(47) (with L. Qiu) *s-Carleson measures and function spaces*, University of Joensuu, Department of Physics and Mathematics, Report Series, no. 12, (2007), 33-55.

(46) *Commutators on Lipschitz spaces and related function spaces*, Front. Math. China, vol. 2(2), 287-303.

(45) (with Ma, Li and Zou) *Long-term memory in emerging markets: Evidence from the Chinese stock market*, Int. J. of Info Tech & DM 5 (3): 495-501 SEP 2006.

(44) (with Sukantamala) *On Nevanlinna Type Classes*, Proceedings of the 13th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, in "Complex Analysis and Applications" ed. by Y. Wang, S. Wu, H. Wulan and L. Yang, World Scientific (2006), 249-260.

(43) *Area operators on Bergman spaces*, Sciences in China, Series A Mathematics, 2006 Vol. 49 No. 7 987-1008.

(42) (with Zhao and Zorboska) *Toeplitz operators on Bloch-type spaces*, Proc. Amer. Math. Soc. 134 (2006), no. 12, 3531-3542.

(41) (with Kwon) *A Class of Matrix Operators and Their Properties*, Proceedings of the 12th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications.

(40) (with Guliyev) *Weighted Holomorphic Besov spaces and their boundary values*, Analysis in Theory and Applications 21:2, (2005), 143-156.

(39) (with Ul-Haq), *The (t, ω)-Lattice and Decomposition Theory for Function Spaces*, in "Advances in Analysis" (Proceedings of the Fourth ISAAC Congress), ed. by H. Begehr, etc. World Scientific (2003), 139-158.

(38) (with Ul-Haq) *BMO_q Spaces and Their Properties*, Proceedings of the 11th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications (2003), 190-211.

(37) (with Xie) *O Spaces and Morrey Spaces*, J. Funct. Anal. (2003), 282-297.

(36) (with Xie), *Decomposition Theorems For O_p Spaces*, Ark. Mat. 40(2) (2002), 383-401.

(35) (with J. Wang), *Multipliers between BMO Spaces on Open Unit Ball*, Integr. Eq. Oper. Theory, 45 (2003), 231-249.

(34) (with J. Wang), *Clifford valued BMO in Bergman metric and Hankel operators*, Adv. Appl. Clifford Algebras 11 (2001), no. S1, 159-170.

(33) *Strong type estimate and Carleson measures for Lipschitz spaces*, Proc. AMS Vol. 127 (11) (1999), 3243-3249.

(32) *Carleson measures and multipliers for Dirichlet spaces*, J. Funct. Anal. 169 (1999), 148-163.

(31) *Clifford analysis and commutators on the Besov spaces*, J. Funct. Anal. 169 (1999), 121-147.

(30) *Cauchy-Riemann operator and decomposition of 2 space on n 1*, Adv. App. Cliff. Alg. 8 L (1998), 83-93.

(29) (with L. Yang) *Multipliers between Dirichlet spaces*, Int. Eq. Op. theory 32 (1998) 482-492.

(28) *Clifford analysis and commutators on harmonic Bergman spaces of "Analysis of Dirac Operators"* ed. by J. Ryan, Pitman Research Notes in Mathematics Series (1998).

(27) (with L. Yang) *The codimension one property in Bergman spaces over planar regions*, Mich. Math. J. 45 (1998), 369-373.

(26) *Function theory and operator theory on the Dirichlet space*, in "Holomorphic Spaces" ed. By S. Axler, J. McCarthy & D. Sarason, MSRI Publ. 33 (1998), 179-199.

(25) (with J. Wang) *Image of Hankel operators* Int. Eq. Op. Theory 28 (1997), 87-96.

(24) (with D. Fan), *Transference of multipliers on certain Hardy-type spaces*, Int. Eq. Op. Theory 27 (1997), 184-194.

(23) *Commutators and related operators on harmonic Bergman space of $H^{n, k}$* , J. Funct. Anal. (1997), 448-474.

(22) (with C. Li) *Hankel operators on Clifford valued Bergman space*, Contemporary Mathematics 212 (1998), 143-155.

(21) *Commutators between Multiplication and Riesz Transforms on Besov Spaces*, Proceedings of the Symposium on Analytical and Numerical Methods in Quaternionic and Clifford Analysis, Seiften, Germany (1996) 217-223.

(20) (with Z. Xu) *Wavelet Approach to Image Processing*, in "Bilingual Information Management" ed. by Z. Xu and R.R. Haynes (the reference for the International Workshop of Bilingual Botanical Information Management, Univ. of Alabama, Dec. 1995).

(19) *Operators on harmonic Bergman spaces*, Int. Eq. Op. Theory 24 (1996), 352-371.

(18) *A class of bilinear forms on Dirichlet type spaces*, J of London Math. Soc. 54(2) (1996), 498-514.

(17) (with D. Fan) *Transference of maximal multipliers on Hardy spaces*, Proc. Amer. Math. Soc. 123 (1995), 3169-3174.

(16) (with D. Fan) *Norm estimates for iterated commutators on the Bergman spaces of the unit ball*, Amer. J. Math. 117 (1995), 523-543.

(15) (with C. Li, A. McIntosh & K. Zhang) *Paracommutators, compensated compactness and Hardy spaces*, J. Funct. Anal. 150(2) (1997), 289-306.

(14) *Clifford algebra, Hardy space and compactness*, in "Clifford Algebra in Analysis and Related Topics" ed. by J. Ryan, Studies in Adv. Math., CRC Press, Boca Raton (1996), 217-238.

(13) (with J. Wang) *Minimum solution of k^{+1} and middle Hankel operators*, J. Funct. Anal. 118(1) (1993), 167-187.

(12) *The predual and second predual of $W_{p, k}$* , J. Funct. Anal, 116(2) (1993), 314-334.

(11) *Boundedness, compactness and Schatten p-classes of Hankel operators between weighted Dirichlet spaces*. Ark. Mat. 31 (1993), 395-417.

(10) (with P. Wang) *A single-server system with limited service policy*, Proceedings of the Southeastern Symposium on System Theory (Tuscaloosa) (1993), 546-550.

(9) (with R. Rochberg) *A new characterization of Dirichlet type spaces and its applications*, Illinois J. Math. 37 (1993), 101-122.

(8) (with L. Peng & R. Rochberg) *Orthogonal Polynomials and Middle Hankel operators on Bergman Spaces*, Institut Mittag-Leffler Reports No. 26, 1991. Studia Mathematica 1 (1992), 57-75.

(7) *Hankel and Toeplitz operators on Dirichlet spaces*, Int. Eq. Op. Theory 15 (1992), 503-525.

(6) (with R. Rochberg) *Toeplitz operators on Dirichlet spaces*, Int. Eq. Op. Theory 15 (1992), 325-342.

(5) (with X.C. Shen) *Bergman spaces and their properties in higher dimensions*, Proceedings of China-U.S. Joint Conference on Approximation Theory (Hangzhou), Approx. Theory Appl. 3(4) (1987), 164-178.

(4) (with X.C. Shen) *Generalized rational approximation in Bers spaces*, Approx. Theory Appl. 3(1) (1987), 97-113.

(3) *Incomplete interpolation systems $\{n, k(z)\}$ on H^p spaces*, Acta Sci. Nat. Beijing Univ. 9(5) (1987), 65-77.

(2) *The general interpolation problem in H_p spaces ($0 < p < \infty$)*, Adv. in Math. (Beijing) 15(4) (1986), 427-430.

(1) (with X.C. Shen) *The Bieberbach conjecture: retrospective*. (Chinese) Translated from the English, Adv. in Math. (Beijing) 14(3) (1985), 227-233.

其他学术及职业活动

A. 报告及讲座

0 1990 年到现在, 共在 30 多个国家和地区做了 190 多场报告或讲座, 其中 25 场特邀主题报告; 35 场特邀国际会议报告; 55 场美国国内会议报告或美国数学学会会议报告; 80 场大学或学院讲座.

B. 组织专业会议及数学竞赛

组织主办了 8 个研究型数学会议组织历年的阿拉巴马州高中数学竞赛

C. 为下列机构评审科研项目, 书稿及文章

基金: 美国国家科学基金(National Science Foundation); 美国民用研究与发展基金(U.S. Civilian Research and Development Foundation)
Pearson 出版社(Publishing)

期刊: 《Journal of Functional Analysis》、《Journal of Integral Equation and Operator Theory》、《Journal of Mathematical Analysis and Applications》、《Math Review》、《Proceedings of the American Mathematical Society》、《Quarterly Journal of Mathematics》、《Rocky Mountain Journal of Mathematics》、《Complex Variables and Elliptic Equations》、《Abstract and Applied Analysis》、《Complex Analysis and Operator Theory》、《Operators and Matrices》、《Numerical Functional Analysis and Optimization》、《Advances and Applications in Mathematical Sciences》、《中国科学》、《数学学报》、《数学进展》、《Taiwanese-J-Math》、《Thai Journal of Mathematics》.

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