CURRICULUM VITAE

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Current Occupation	Professor, Ph.D. Doctor's Adviser of Theoretical Physics Director, Institute of Theoretical Physics, USTC Superintendent，National Key Important Specialty of Theoretical Physics, USTC Director, Institute of Complex Adaptive System, Shanghai Academy of System Science， Shanghai, China Superintendent, Nonlinear Science Center, USTC President, Nonlinear Science Society of Anhui Province， P.R.China
Education	1962-1967，Theoretical Physics Specialty, Department of Modern Physics, University of Science and Technology of China (USTC)， Beijing 1982-1985 Post Doctoral Research, Department of Physics, Stevens Institute of Technology, USA

Distinctions / Honours	[1] Wang Bing-Hong: *"Analytical Study of Bifurcation, Chaos, and Intermittency"* Science and Technology Research Advance Award, Education Council of Anhui Province, China, 1995 [2] Wang Bing-Hong, Zhen Zhaobi and Li Dongsheng: *"The Application of Nonlinear Science in Earthquake Prediction Research"* Science and Technology Research Advance Award Education Council of Anhui Province, China, 1995 [3] Wang Bing-Hong, He Da-Ren, Qu Shixian, Wu Sunguang: *"Study of Universal Behaviors for Bifurcation, Chaos, and Intermittency in Nonlinear Systems"* Science and Technology Research Advance Award, 2nd Rank, National Education Council, 1996 [4] He Da-Ren and Wang Bibng-Hong: *"New Dynamical Behaviour of the Relaxation Oscillation System"* Science and Technology Research Advance Award, Second Rank, Education Council of Shanxi Province, China, 1996,

	[5] Wang Lei and Wang Bing-Hong: *"A New Traffic Flow Model Between FI-type and NS-type"* The Award of Outstanding Exellent Thesis in 3rd Academic Conference of Young Scientists in Anhui Province 《Aurora for Prosperity of Anhui》 [6] Wang Bing-Hong: Advanced Education Award of Wang Kuan-Cheng Foundation, 1996 [7] Wang Bing-Hong and Hui Pak-Ming: *"The Improved Mean Field Theory of Two Dimensional Traffic Flow Model"* The Second Anhui Province Award for Excellent Scientific Research Thesis in Year 1994-1997 [8] Wang Bing-Hong and He Da-Ren:*"Escape from Strange Sets"* The Second Anhui Province Award for Excellent Scientific Research Thesis in Year 1994-1997, [9] Wang Bing-Hong, Chen Guo-Yi, Gu Guo-Qing: *"Universal Transition of Plateau Structure for Lyapunov Exponent"* Certificate for Major Scientific and Academic Achievements for Cninese of World, Sponsor: International Economic Estimate (HK) Centre, Wen Wei Po, Issuing Authotity: Evaluation and Appraisal Committee of Major Scientific and Academic Achievements for Chinese, Issuing Date: Jan. 5th, 1999 [10] Wang Bing-Hong, Pak-Ming Hui, Wang Lei: *"New Method of Statistical Mechanical Approach to Traffic Flow Cellular Automaton Model"* Science and Technology Research Advance Award, Second Rank, Education Council of Anhui Province, China, 1999 [11] Wang Bing-Hong, Wang Lei, Hui Pak-Ming, and Kuang Le-Qi: The New Method for Statistical Approach to Traffic Flow Cellular Automaton Models, The recommended advancements by Chinese Academy of Science (Registration number: 990821, The Classification number: O212 U491.112) The Research Achievement Bulletin for Science and Technology, No. 4, 1999, Published by State Committee of Science and Technology [12] Wang Bing-Hong *"The Statistical Mechanical Approach to Fukui-Ishibashi Traffic Flow Model"* The Fourth Anhui Province Award for Excellent Nature Scientific Research Thesis in Year 2000-2003, The First Rank [13] Song WG, Fan WC, Wang Bing-Hong: *"Self-organized criticality of forest firein Chna"* The Fourth Anhui Province Award for Excellent Nature Scientific Research Thesis in Year 2000-2003
Employment Record	**Current Position:** Professor, Ph.D. Doctor's Adviser of Theoretical Physics Director, Institute of Theoretical Physics, USTC Superintendent，National Key Important Specialty of Theoretical Physics, USTC

	Director, Institute of Complex Adaptive System, Shanghai Academy of System Science， Shanghai, China Executive Director, Nonlinear Science Center, USTC President, Nonlinear Science Society of Anhui Province， P.R.China 2001-2005 Academic Consultant, Complexity Science Special Project, NSFC 2001-2005, Director, Science Committee, Institute of Theoretical Physics, USTC 2000-, Deputy Director, Nonlinear Science Center, USTC 1997- Doctor's Advisor of Theoretical Physics, USTC 1996-2003 Deputy Director, Nonlinear Science Society of Anhui Province 1996- Full Professor, USTC 1993-, Deputy Director, Science Committee, Institute of Theoretical Physics, USTC 1990-, Research Professor, NSC, USTC 1989-1995 Associate Professor, MPHY, USTC 1982-1988, Lecturer, MPHY, USTC 1973-1981, Associate Lecturer, MPHY, USTC
Visiting Positions	Postdoctoral Research, Department of Physics, Stevens Institute of Technology,USA,1982–1985 Visiting Scholar, Department of Physics, Chinese University of Hong Kong, 1995, 1996, 2000, 2001, 2004, 2006 Research Fellow (supported by C.N.Yang Visiting Foundation) CUHK, 1998 Visiting Professor, Korea Advanced Institute of Science and Technology, 1997 Research Fellow, Center for Nonlinear Studies and Department of Physics, Hong Kong Baptist University, 1998-1999 Research Fellow, Institute of Physics, Academia Sinica, Taipei, Taiwan 2002, 2005, 2006 Senior Research Fellow, Department of Computational Science and Department of Physics, National University of Singapore, 2003, 2004, 2005, 2006
Adjunct Professor	School of Systems Science, Shanghai University of Science and Technology, Shanghai 1993-1999; 2005-2008 Complex System Research Center, Faculty of Science, Yangzhou University, Yangzhou, 2000-2004 Institute of Applied Mathematics and Mechanics, Shanghai University, 2001- Department of Physics, Zhejiang University, P.R.China, 2005-2008
Academic Consultant	Complex Science Center, Faculty of Science, Yangzhou University, Yangzhou, 2000-2004 Complexity Science Special Project, National Natural Science Foundation of China 2001-2004
Reviwer and Referee	Editor: Journal of Nonlinear Dynamics in Science and Technology (China), Reviwer: Mathematical Reviews (USA) Referee: Physical Review E; Physica A; Acta Physica Sinica, Chinese Physics Letters, Science of China, National Natural Science Foundation of China

Research Interests	Statistical physics: Equilibrium and Non-Equilibrium Statistical Mechanics, Self-Organization Criticality and Phase Transition Theory Nonlinear Physics: Nonlinear dynamics, Theory of chaos and fractals, Chaos Controlling and Chaos Synchronization, Nonlinear analysis method of time series, Frenkel-Kontorova model, Dynamical Behavior of Complex System, Plasma Physics Dynamics Complexity Science: Forest Fire Model, Instability of Fire Combustion System, Cellular Automaton, Microscopic High Speed Simulation of Traffic flow, Earthquake prediction research, Neural Network theory, Complexity, Models of Complex System, Complex Adaptive System, Econophysics: Empirical Analysis of Financial Data, Agent-Based Physical Model of Financial Market, Minority game, Complex Networks: Structure, Function and Dynamics

Research Funding	National Basic Research Program of China (973 Project) 《Nonlinear Science》 "Chaos and Stochastic Dynamics" (2001-2005) 《The basic science research for the problems at urban traffic choke points》 "Temporal and special evolution complexity and structure bottleneck of the urban transportation systems" (Grant No. 2006CB705500; 2006-2011) The National Climbing-Up Project for Basic Research "Nonlinear Science" (1) "Chaos in Conservative Systems" (1991-1995) (2) "Research on Complex System Dynamics" (1996-2000) Specialized Research Fund for the Doctoral Program of Higher Education (No. SRFDP 20020358009) "Self organization criticality of traffic flow and agent based econophysics model research" (2003-2005) "The structure, function and dynamics of the complex network" (2007-2009) The Key Important Project of National United Earthquake Science Foundation, SSB, China Grant: "Interpretation of earthquake time series and research on prediction algorithms" (1993-1995) Cooperation Research supported by the Research Grants Council of the Hong Kong SAR Government Grant No. RGC-CUHK4191/97P "Traffic Flow Research" (with: Pak-Ming Hui, 1997-1999) ; Grant No. RGC-CUHK4241/01P "Complexity Adaptive System and Minority Game Research" (with: Pak- Ming Hui, 2001-2003) The Knowledge Innovation Project of Chinese Academy of Science: "Study on Dynamical Theory for Nonlinear and Non-Equilibrium Complexity System Related to Fire Combustion Phenomena" (2000－2001) Special Project Supported by President Fund of Chinese Academy of Science

	"Study of Structure, Function and Dynamical Property of Complex Network" (2006-2007) Eastern and Western China Region Cooperation Project of Special Fund for Theoretical Physics "Research on Evolution and Synchronization of Complex Networks" (As Eastern Cooperation Advisor) Grant No. 10547004 (2006-2008) The Key Important Project of National Natural Science Foundation Grant No.19932020: "Research on Traffic Flow in Cities" (2000-2003) Grant No.10532060 "Nonlinear Dynamics Characteristics Research for City Traffic System" (2006-2009) Grant No. 10635040 "Study of the dynamical and statistical behaviours of the complex systems based on complex network" (2007-2010) Special Funds for Theoretical Physics Research in China "Research on the evolution mechanism and dynamical behaviors of the complex network" Grant No, A0524701 (2006-2007) The General Project of National Natural Science Foundation of China: (1) "Study on stochastic heating and acceleration of particles in plasma by electromagnetic wave" (1989-1991) (2) "Study on Plasma Strong Turbulence and Caviton Theory" (1989-1991) (3) "Nonlinear analysis of time series and application to earth science" (1995- 1997) (4) Grant No.59876039: "Research on Nonlinear Instabilities of Basic Fire Combustion System" (1999-2001) (5) Grant No.19974039: "Research on Self-Organization Criticality and Phase Transition of Traffic Flow Complex System" (2000-2002) (6) Grant No.70271070: "Statistical Analysis of Price and Study of Agent Interaction Model for Financial Market" (2003-2005) (7) Grant CCUIPP-NSFC（No.70142005）"Statistical Analysis Of Economical Data And Agent-Based Model Research Of Financial Market With Its Complex Adaptive Behavior" the China-Canada University Industry Partnership Program (2001-2002) (8) Grant No. 10472116 "Study for Dynamics of traffic flow along the highways and transmission flow along the networks" (2005-2007)

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The Second International Symposium on Complexity Science,
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40 Shanghai NSA'03，Shanghai International Symposium on Nonlinear Science & Applications （November 9-13, 2003, Ocean Hotel, Shanghai, China）
as a member of International Advisory Committee
Bing-Hong Wang: *Analytical Approach to Two Way Selecting Decision Traffic Flow*

41 International Workshop on Quantum Computation and Communication
(November 21 - 23, 2003 Hong Kong)
B. H. Wang: *A Discussion On Quantum Game*

42 International Conference on Physics Education and Frontier Research (The Fourth joint Meeting of Chinese Physicists Worldwide) Shanghai，June 28-July 1, 2004. Bing-hong Wang：
Hyper-chaotic Synchronization In Deterministic Small-World Dynamical Networks .
（Invited Talk， SN3 Networks, Thursday, 9-10:30 am） OCPA4

43 Dynamics Days Asia Pacific 2004 – The Third International Conference on Nonlinear Science,
30 June – 2 July 2004, Singapore，a satellite conference of STATPHYS 22 (4-9 July 2004, Bangalore, India).Invited Talk，Quantum Chaos
Bing Hong Wang：*Chaos-assisted tunneling in a triple-well potential*

44 Oral Contribution in Topic 12: Other applications of statistical physics (networks, traffic flows, algorithmic problems, econophysics, astrophysical applications, etc.).
STATPHYS 22, the 22nd international conference on statistical physics of the international union of pure
and applied physics (IUPAP), Bangalore, India , 4 to 9 July 2004. Bing-Hong Wang, *Searching good strategies in evolutionary minority game using variable length genetic algorithm*

45 The 1st International Workshop on Simulational Physics，
November 5 - 7, 2004，Zhejiang University，Hangzhou
Bing-Hong Wang, *The minority game of Boolean agent on network*

46, THE SECOND SHANGHAI INTERNATIONAL SYMPOSIUM ON NONLINEAR SCIENCE AND APPLICATIONS (Shanghai NSA'05，June 3 - 7, 2005) Bing-Hong Wang：
Proportional Synchronization Approach of Hyper-Chaotic System and Its' Applications in Chaotic Communications (China）062

47, Bing-Hong Wang： Interplay of Dynamics, Traffic and Topology on Weighted Technological Networks
International Conference on Complex Systems and Complex Networks，
Seoul, Korea, June 10-12, 2005

48 《StatPhys-Taiwan 2005》2005 Taiwan Summer Symposium on Statistical and Nonlinear Physics (31 July ~ 6 August 2005)
Institute of Physics, Academia Sinica, Taipei, 31-July-3 August,
Chung Yung Christian University, Chungli, 4-6 August
（invited as a member of Advisory Committee and a Plenary Speaker）：

49, Bing-Hong Wang:
Weighted Technology Networks Driven By Traffic Flow-Interplay Between Topology And Traffic Dynamics In Networks, 13:30-14:15, Sept.92005 NCTS September Workshop on Critical Phenomena and Complex Systems Ta-Yi Building, Department of Physics, Chinese Culture University, Taipei，9-10 September 2005 （Organized by National Center for Theoretical Sciences（Critical Phenomena and Complex Systems focus group)， Institute of Physics of Academia Sinica (Taipei) and Department of Physics, Chinese Culture University, Taipei