

张平文

武汉大学校长，武汉大学教授，北京大学博雅讲席教授

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教育背景

1988 - 1992	博士研究生	北京大学数学科学学院	导师:应隆安教授
1984 - 1988	学士	北京大学数学系	

工作经历

2023 -	武汉数学与智能研究院院长
2022 -	武汉大学校长
2022 -	武汉大学教授
2020 - 2022	北京大学科技创新研究院院长
2019 - 2022	北京大学副校长
2018 -	大数据分析与应用技术国家工程实验室主任
2019 - 2021	北京大学大数据科学研究中心主任
2018 - 2019	北京大学科学与工程计算中心主任
2015 - 2019	北京大学学科建设办公室主任
2013 - 2015	北京大学数学科学学院常务副院长
2010 - 2017	数学及其应用教育部重点实验室主任
2008 - 2012	北京大学数学科学学院副院长
2008 - 2012	北京大学数学中心副所长
2008 - 2010	数学及其应用教育部重点实验室副主任
2001 - 2018	北京大学科学与工程计算中心常务副主任
1999 - 2008	北京大学数学科学学院科学与工程计算系主任
1996 - 2022	北京大学数学科学学院教授
1994 - 1996	北京大学数学科学学院副教授
1992 - 1994	北京大学数学科学学院助理教授

研究方向

- 软物质（复杂流体）的建模和计算
- 应用分析和数值计算
- 大数据分析与应用

荣誉与奖励

2021	何梁何利基金科学与技术进步奖
2020	中国工业与应用数学学会会士
2020	美国工业与数学学会会士
2018	国际数学家大会·大会邀请报告
2016	发展中国家科学院院士
2015	中国科学院院士
2015	第八届国际工业和应用数学大会组织委员会成员及学术子委员会主席
2014	国家自然科学基金二等奖
2014	国家自然科学基金创新研究群体项目学术带头人
2014	美国工业和应用数学年会·大会邀请报告
2011	第七届国际工业和应用数学大会·大会邀请报告
2010	北京市师德标兵
2007	教育部高校科学技术奖自然科学一等奖
2002	国家自然科学基金杰出青年科学基金获得者
2002	长江学者特聘教授
1999	冯康科学计算奖

学术兼职

2022 -	北京大学博雅讲席教授
2022 -	中国教育发展战略学会教育帮扶专委会理事长
2022 -	北京大学计算与数字经济研究院，首席科学家
2021 -	北京大学重庆大数据研究院，首席科学家
2018 -	北京大学大数据分析与应用技术国家工程实验室，主任

2016 - 2025	中国工业与应用数学学会（CSIAM）理事长
2004 - 2016	中国工业与应用数学学会(CSIAM)，副理事长，学术委员会主任
2015 -	“大规模科学与工程计算”国家重点实验室，学术委员会副主任
2006 -	北京应用物理与计算数学研究所计算物理实验室，学术委员会副主任
2001 - 2006	“大规模科学与工程计算”国家重点实验室，学术委员会副主任
2010 - 2014	中国计算数学学会，副理事长
2002 - 2006	中国计算数学学会，副理事长
2005 -	吉林大学，兼职教授
2004 -	湘潭大学，兼职教授
2004 -	苏州大学，兼职教授
1999 - 2001	清华大学，兼职教授

学术交流

2004.03-05	普林斯顿大学应用和计算数学系，访问学者，美国
2002.01-02	普林斯顿大学应用和计算数学系，访问学者，美国
2001.01-02	香港科技大学数学系，访问学者
1999.07-08	加州理工大学应用数学系，访问学者，美国
1999.05	香港浸会大学数学系，访问学者
1998.09-1999.02	香港浸会大学数学系，访问学者
1997.11-1998.08	加州理工大学应用数学系，访问学者，美国
1996.04	香港中文大学数学系，访问学者
1995.02-11	加州理工大学应用数学系，访问学者，美国
1993-1996	计算物理国家实验室，访问副教授

杂志编委

2020 -	CSIAM Transactions on Applied Mathematics (Editor in Chief)
2014 -	Multiscale Modeling & Simulation, A SIAM Interdisciplinary Journal
2013 -	Science China Mathematics
2012 -	Discrete and Continuous Dynamical System-B
2011 -	Journal of Mathematics in Industry (Coordinating Editors)

2010 -	Applied Mathematics and Mechanics;(Associate Chief Editor Since 2014)
2007 -	Journal of Computational Mathematics
2006 -	Communications in Computational Physics
2006 -	International Journal of Nonlinear Science
2005 -	Communication in Mathematical Sciences
2005 -	Journal of Information and Computational Science
2005 - 2013	SIAM Journal on Numerical Analysis
2002 -	Applied Mathematical Research Express (AMRX)
2010 -	Advances in Mathematics
2007 -	《工程数学学报》
2006 -	《数学杂志》
2004 -	《计算数学》
2004 -	《计算物理》
2004 -	《东北数学》

主办会议

- The 8th International Congress on Industrial and Applied Mathematics (ICIAM 2015), 学术子委员会主席, 北京, 2015.8.10-14.
- Frontiers of Applied and Computational Mathematics, 北京, 2015.8.7-9.
- Workshop of Mathematical Analysis, Modeling and Computations on Liquid Crystals and Related Topics, 北京, 2015.8.8-9.
- One-Day Workshop on Mathematical Theory of Liquid Crystals, 北京, 2014.9.29.
- Northeastern Asian Symposium on Methods and Modeling for High Performance Scientific Computing, 2013.9.22-25.
- Modeling and Mathematical Theory of Phase Transition, 北京大学, 2011.12.31.
- The First Cross-straits Workshop on Computational Mathematics, 厦门, 2010.8.3-6.
- Computational Problems in Material Sciences, 苏州, 2010.8.2-4.
- Workshop on Numerical Methods of PDEs, 广州, 2010.7.28-31.
- The 7th International Conference on Scientific and Applications, 大连, 2010.6.13-16.
- China-Germany Conference on "Mathematics and Industry", 北京, 2010.3.15-17.
- The 5th China-Italy Conference on Computational and Applied Mathematics, Mathematical models in Life Science: Theory and Simulation, 意大利, 罗马, 2009.11.
- International Workshop on Quantum Systems and Semiconductor Devices: Analysis, Simulations,

Applications, 北京, 2009.04.

- Rheology of complex fluids: Modeling and Numerics, 法国, 巴黎, 2009.01.
- Multiscale Modeling of Complex Fluids专题活动, 北京大学, 2007.09-2008.05
- Multiscale Modeling of Complex Fluids, University of Maryland, 2007.04
- Mathematical and numerical modeling of nanoscale devices暑期学校, 北京大学, 2005.06-07.
- Adaptive method and applications暑期学校, 北京大学, 2005.06-08.
- Scientific Computing and Applied Mathematics暑期学校, 北京大学2005.06-08.
- International conference on multiscale modeling and scientific computing, 北京大学, 2005.06.
- Mathematical models in life sciences: Theory and Simulation, 北京大学, Jun. 2005.
- Summer School of Scientific Computing and Applied Mathematics, 北京大学, Jul.-Aug. 2003.
- Summer School of Scientific Computing and Applied Mathematics, 北京大学, Aug.-Sept. 2003.
- The Second Chinese-Korean Joint Workshop on Recent Advances in Numerical Analysis and Its applications, 北京, 2003.02.
- Summer School of Scientific Computing and Applied Mathematics, 清华大学, 2002.07-08
- The 10th conference on Computational Methods of Fluid Mechanics (会议主席), 云南昆明, 2001.08.
- International symposium on computational & applied PDEs, 张家界, 2001.06.
- International conference on scientific & engineering computing (会议主席), 北京大学, 2001.03.
- Workshop on Numerical PDE, 北京大学, 1996.
- Overseas Chinese Computational Physics Conference, 北京, 1996.
- The 6th conference on Computational Methods of Fluid Mechanics (会议秘书), 山东大学, 1993.

邀请报告

- 2025 World Digital Education Conference, 武汉, 2025.5.15.
- ACM Turing Award Celebration Conference China 2024, 长沙, 2024.7.5-11.
- 2024 Conference on Digital Development in Higher Education, 杭州, 2024.4.19-22.
- 2022 Global Digital Economy Conference Data Elements Summit, 北京, 2022.7.29.
- AI for Science Series Academic Lectures, 北京, 2022.5.25.
- 2018 International Congress of Mathematicians (ICM2018), 巴西里约热内卢, 2018.
- The 9th International Conference on Computational Physics, 新加坡, 2015.1.7-11.
- International Conference on Optimization, Sparsity and Adaptive Data Analysis, 北京, 2015.3.18-21.
- The 2014 SIAM Annual Meeting (AN14), Chicago, Illinois, USA, 2014.7.7-11.
- Robust Discretization and Faster Solvers for Computable Multi-Physics Models, ICERM, Brown University, 2014.5.12-16.
- The 5th International Conference on Scientific Computing and PDEs, 香港, 2014.12.8-12.

- International Conference on PDE, 广州, 2013.12.6-10.
- 2013 Northeastern Asian Symposium on Methods and Modeling for High Performance Scientific Computing, 成都, 2013.9.22-25.
- 2013 International Conference on Mathematical Modeling and Computation, 武汉, 2013.5.15-19.
- Nonlinear analysis of continuum theories: statics and dynamics, Oxford, 2013.4.8-12.
- Symmetry, bifurcation and order parameters, Cambridge, 2013.1.7-11.
- Multiscale Modeling, Simulation, Analysis and applications, 新加坡, 2012.1.9-13.
- International Conference on Scientific Computing, 香港, 2012.1.4-7.
- 7th International Congress on Industrial and Applied Mathematics, Vancouver, 2011.7.18-22.
- International Conference on Interdisciplinary Applied Mathematics and Computational Mathematics, 浙江, 2011.6.17-21.
- Sino-French Workshop on Contemporary Applied Mathematics, 上海, 2011.7.4-8.
- International Conference on Applied Mathematics and Interdisciplinary Research, 天津, 2011.6.13-16.
- Kinetic and Fluids, 北京, 2010.07.
- The 5th China-Italy Conference on Computational and Applied Mathematics. Mathematical models in Life Science: Theory and Simulation, Roma, Italy, 2009.09.
- The 3rd Chinese-German Workshop on Computational and Applied Mathematics, Heidelberg, Germany, 2009.9.28 – 10.2.
- International Workshop on Continuum Modeling of Biomolecules, 北京, 2009.09.
- Mathematical Theory and Numerical Methods of Computational Materials simulation and Design, 新加坡, 2009.08.
- International Conference on Mathematical Theory and Applications of Liquid Crystal, Ferromagnetism and Related Topics, 广州, 2009.06.
- Computational Multiscale Methods, Oberwolfach, Germany, 2009.06.
- International Workshop on Quantum Systems and Semiconductor Devices: Analysis, Simulations, Applications, 北京, 2009.04.
- Adaptivity, Robustness and Complexity of Multiscale Algorithm, Edinburgh, England, 2009.03.
- Rheology of complex fluids: Modeling and Numerics, 法国, 巴黎, 2009.01.
- The 6th International Conference on Scientific Computing and Applications, Busan, Korea, 2008.06.
- Workshop on the Foundations of numerical PDEs (FoCM), 香港, 2008.06.
- Workshop on Nanoscale Interfacial Phenomena in Complex Fluids, 北京, 2008.06.
- Canada-China workshop on industrial mathematics, Banff, Canada, 2007.08.
- Multiscale Modeling of Complex Fluids, Maryland, 2007.04.
- International Workshop on Multiscale Analysis and Applications, 新加坡, 2006.11.
- The Symposium on Multi-physics and Multi-Scale Computation of Materials-2006, 西安, 2006.11.
- International Conference on PDE and Numerical Analysis, 长沙, 2006.06.

- Workshop on Multiscale Modeling of Complex Fluids, 北京, Jun. 2006.06.
- International Conference on Recent Advances in Scientific Computations, 北京, 2006.06.
- International Conferences on Applied Mathematics and Interdisciplinary Research, 天津, 2006.06.
- International Symposium on Polymer Physics, 苏州, 2006.06.
- Interfacial Dynamics in Complex Fluids, Banff, 加拿大, 2006.05.
- International Conference on Calculus of Variations, PDEs and Nonlinear Analysis, 北京, 2006.05.
- The second International Conference on Scientific Computing and Partial Differential Equations, 香港, 2005.11.
- The 1st China-Germany Workshop on Computational and Applied Mathematics, Berlin, Germany, 2005.09.
- International conference on scientific computing, 南京, 2005.06.
- International conference on multiscale modeling and scientific computing, 北京大学, 2005.06.
- Mathematical models in life sciences: Theory and Simulation, 北京, 2005.06.
- The 3rd joint Chinese-Korean Workshop on Recent Progresses on Numerical Analysis and Its Applications, South Korea, 2005.02.
- Nanoscale Material Interfaces: Experiment, Theory and Simulation, 新加坡, 2005.01.
- Workshop on Multiscale Rheological Models for Fluids, Montreal, 加拿大, 2004.11.
- International Conference on Numerical and Applied PDEs, 长春, 2004.06.
- International Conference on Frontiers of Applied Mathematics, 北京, 2004.06.
- The 2nd International Conference on Inverse Problem, 上海, 2004.06.
- International Workshop on Wave Propagations, 北京, 2004.06.
- International Conference on Superconvergence and A Posteriori Estimates in FEM, 长沙, 2004.05.
- International Conference of Scientific Computing, 北京, 2003.12.
- The 3rd China-Italy Joint Conference on Computational and Applied Mathematics, Grado, Italy, 2003.11.
- The 2nd Chinese-Korean Joint Workshop on Recent Advances in Numerical Analysis and Its applications, 北京, 2003.02.
- The Third International Workshop on Scientific Computing and Applications, 香港, 2003.01.
- ICM2002-Beijing Satellite Conference on Scientific Computing, 西安, 2002.08.
- The 11th International Conference of Fluid Dynamics and Soft Condensed Matter, 上海, 2002.08.
- Workshop on Multiscale Analysis and Computation, 台湾, 2002.06.
- The 3rd China-Sweden Workshop on Computational Mathematics Goteberg, 瑞典, 2002.06.
- International symposium on computational & applied PDEs, 张家界, 2001.06.
- International conference on scientific & engineering computing, 北京大学, 2001.03.
- The First Chinese-Korean Joint Workshop on Recent advances in Numerical Analysis and Its Applications, 韩国, 2001.02.

- The 2nd Sino-Italian Symposium on Computational and Applied Mathematics, Ischia, Italy, 2000.06.
- The 2nd China-Sweden workshop on Numerical Partial Differential Equations, 香港, 2000.01.
- Conference of Partial Differential Equation and Numerical Method in Mechanics, 香港, 1999.06.
- The First Sino-Italian Symposium on Applied and Computational Mathematics, 北京, 1998.12.
- China-Japan Symposium on Computational Mathematics, 大连, 1997.08.
- 96'Symposium on Computational Physics, Institute of Computational Mathematics and Applied Physics, 北京, 1996.06.
- Summer Research Seminars on Theory and Computations of Fluid Dynamics, 北京, 1994.06.

专著

1. 张平文, 邱泽奇, 宋洁, 数字生态与治理 (第三辑): 数据要素流通及其治理, 社会科学文献出版社, (2025)
2. 张平文, 应用数学落地研究: 国家需求驱动应用数学发展, 高等教育出版社, (2024)
3. 张平文, 邱泽奇, 宋洁, 数字生态与治理 (第二辑): 数据要素流通及其治理, 社会科学文献出版社, (2024)
4. 张平文, 邱泽奇, 宋洁, 数字生态与治理: 数字生态与中美欧数字治理格局, 社会科学文献出版社, (2024)
5. 张平文, 邱泽奇, 数据要素五论: 信息、权属、价值、安全、交易, 北京大学出版社, (2022)
6. 张平文, 李铁军, 数值分析, 北京大学出版社, (2007)
7. Tatsien Li and Pingwen Zhang (editors), Frontiers and Prospects of Contemporary Applied Mathematics, Series in Contemporary Applied Mathematics, CAM6, Higher Education Press and World Scientific, (2006)
8. 周铁, 徐树方, 张平文, 李铁军, 计算方法, 清华大学出版社, (2006)
9. 徐树方, 高立, 张平文, 数值线性代数, 北京大学出版社, (2001)
10. Long-an Ying and Pingwen Zhang, Vortex Methods, Science Press, (1994)

论文 (中文)

1. 邱泽奇, 乔天宇, 宋洁 and 张平文. 数字生态: 概念源流与建构. 社会学研究, 2025, 40(5):21-41.
2. 邱泽奇, 李昊林, 张平文 and 乔天宇. 专家知识数据化与文科智能. 中国社会科学, 2025, (07):91-109.
3. 张平文. 充分发挥高水平研究型大学在科技强国建设中的独特作用. 中国高等教育, 2024, (Z2):43-45.
4. 张平文. 高校应找准服务发展新质生产力的发力点. 中国高等教育, 2024, (08):1.
5. 张平文. 关于数学学科高层次人才培养的思考. 大学与学科, 2023, 4(04):1-12.
6. 张平文. 围绕首都“四个中心”建设辐射带动北京市属高校发展. 北京教育, 2023, :10-13.
7. 张平文. 数字经济将成为国家发展新征程的助推器. 中国经贸导刊, 2022, :12-14.
8. 乔天宇, 李由君, 赵越, 谭成 and 张平文. 数字治理格局研判的理论与方法探索. 中国科学院院刊, 2022, :1365-1375.

9. 张平文. 数学与企业创新. 中国科学院院刊, 2021, 36(4).
10. 王娟,张蕴洁,宋洁 and 张平文. 中美欧数字经济与贸易的比较研究. 西安交通大学学报, 2022, .
11. 王娟,张一,黄晶,李由君,宋洁 and 张平文. 中国数字生态指数的测算与分析. 电子政务, 2022, 3:4-16.
12. 张平文,贺飞,何洁 and 何峰. 把脉问诊、对标一流：北京大学学科国际同行评议的探索与启示. 大学与学科, 2021, 2(3).
13. 张平文. 关于《大学与学科》的若干思考. 大学与学科, 2020, 1(1).

论文（英文）

1. Jerry Zhijian Yang and Pingwen Zhang. Data-and Mechanism-Driven Hybrid Computing: A New Paradigm for Scientific and Engineering Computation. CSIAM Transactions on Applied Mathematics, 2026, 7(1).
2. Zhiyi Zhang,Gang Cui,Kai Jiang,An-Chang Shi,Pingwen Zhang,Jianyuan Yin and Lei Zhang. Exploring transition pathways in the Landau-Brazovskii model. PHYSICAL REVIEW RESEARCH, 2026, 8(1).
3. Baoming Shi,Dawei Wu,Lei Zhang and Pingwen Zhang. Analyzing the Nematic Liquid Crystal Droplet with an Improved Diffuse-interface Landau--de Gennes Model. SIAM JOURNAL ON APPLIED MATHEMATICS, 2026, 86(3).
4. Qiuqi Li,Lingling Ma and Pingwen Zhang. An Iterative Method Based on Generalized Multiscale Finite Element Methods for Parameter-dependent Dual Continuum Model. MULTISCALE MODELING & SIMULATION, 2025, 23(4).
5. Pingwen Zhang and Dan Wu. China's Wisdom in Addressing the Imperatives of Global Education Modernization in the Digital Age: On Significance of Digital Education Fronts 2025. Frontiers of Digital Education, 2025, 2(4):32.
6. Shuai Miao,Ziqi Liu,Lei Zhang,Pingwen Zhang and Xiangcheng Zheng. Construction and analysis for Adams explicit discretization of high-index saddle dynamics. CSIAM Transactions on Applied Mathematics, 2025, .
7. Dawei Wu,Baoming Shi,Yucen Han,Pingwen Zhang,Apala Majumdar and Lei Zhang. A diffuse-interface Landau-de Gennes model for free-boundary problems in the theory of nematic liquid crystals. SIAM Journal on Mathematical Analysis, 2025, 57(4):4358-4395.
8. Pingwen Zhang. Leading the Digital Transformation of Higher Education Through the Reform of Digital Intelligence Education: Exploration and Practice at Wuhan University. Frontiers of Digital Education, 2025, 2(1):2.
9. Ruedi Aebersold, Mark S. Baker, Xiuwu Bian, Xiaochen Bo, Daniel W. Chan, Cheng Chang, Luonan Chen, Chris Soon Heng Tan, Xiangmei Chen, Yu-Ju Chen, Heping Cheng, Ben C. Collins, Fernando Corrales, Jürgen Cox, Weinan E, Jennifer E. Van Eyk, Jia Fan, Pouya Faridi, Daniel Figeys, George Fu Gao, Mingxia Gao, Qiang Gao, Wen Gao, Yushun Gao, Zu-Hua Gao, Keisuke Goda, Wilson Wen Bin Goh, Dongfeng Gu, Changjiang Guo, Tiannan Guo, Xuejiang Guo, Fuchu He, Jie He, Jun He, Qing-Yu He, Yuezhong He, Albert J. R. Heck, Henning Hermjakob, Jinlin Hou, Canhua Huang, Tony Hunter, Chenxi Jia, Narayanan Gopalakrishna Iyer, Ying Jiang, Connie R. Jimenez, Lokesh Joshi, Neil L. Kelleher, Bernhard Kuster, Chaoying Li, Dong Li, Ming Li, Yan Li, Yanchang Li, Yang Li, Qingsong Lin, Cui Hua Liu, Fan Liu, Guang-Hui Liu, Siqi Liu, Xiaonan Liu, Ya Liu, Yansheng Liu, Zhihua Liu, Zhongyang Liu, Teck Yew Low, Ben Lu, Haojie Lu, Matthias Mann, Anming Meng, Robert L. Moritz, Edouard Nice, Yongzhan Nie, Guang Ning, Mariko Okada, Gilbert S. Omenn, Christopher M. Overall, Giuseppe Palmisano,

Yaojin Peng, Charles Pineau, Terence Chuen Wai Poon, Anthony W. Purcell, Guojun Qian, Jie Qiao, Hongqiang Qin, Yu Rao, Zihao Rao, Roger R. Reddel, Xianwen Ren, Yan Ren, Phillip J. Robinson, Paola Roncada, Chris Sander, Jiahao Sha, Feng Shen, Lin Shen, Erwei Song, Sanjeeva Srivastava, Shicheng Su, Aihua Sun, Siu Kwan Sze, Minjia Tan, Ben Zhong Tang, Chao Tang, Liujun Tang, Sheng-Ce Tao, Ruijun Tian, Juan Antonio Vizcaíno, Chanjuan Wang, Chen Wang, Jian Wang, Tong Wang, Xiaowen Wang, Xinxing Wang, Yan Wang, Liming Wei, Tobias Weiss, Mathias Wilhelm, Robert Winkler, Bernd Wollscheid, Catherine C. L. Wong, Limsoon Wong, Linhai Xie, Wei Xie, Xiaoliang Sunney Xie, Li Xu, Ping Xu, Tao Xu, Tianhao Xu, Liying Yan, Huanming Yang, Jianjun Yang, Jing Yang, Xiao Yang, John Yates, Mingliang Ye, Wantao Ying, Xiaobo Yu, Yaxiang Yuan, Qingcun Zeng, Qiwei Zhai, Qimin Zhan, Bing Zhang, Hui Zhang, Lihua Zhang, Lingqiang Zhang, Pingwen Zhang, Xiaofei Zhang, Xu Zhang, Ying Zhang, Yukui Zhang, Yu Zi Zheng, Nan-Shan Zhong, Qing Zhong, Feng Zhou, Yi Zhu, Yunping Zhu and Zemin Zhang. π -HuB: the proteomic navigator of the human body. NATURE, 2024, 636(8042).

10. Kai Jiang, Shifeng Li and Pingwen Zhang. ON THE APPROXIMATION OF QUASIPERIODIC FUNCTIONS WITH DIOPHANTINE FREQUENCIES BY PERIODIC FUNCTIONS. SIAM JOURNAL ON MATHEMATICAL ANALYSIS, 2025, 57(1).
11. Kai Jiang, Xueyang Li, Yao Ma, Juan Zhang, Pingwen Zhang and Qi Zhou. IRRATIONAL-WINDOW-FILTER PROJECTION METHOD AND APPLICATION TO QUASIPERIODIC SCHRÖDINGER EIGENPROBLEMS. SIAM JOURNAL ON NUMERICAL ANALYSIS, 2025, 63(2).
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