

# Curriculum Vitae

Songnian He (何松年)

( As of September 24, 2014)

Academic Degree: Ph. D. (January 1995)  
Academic Rank: Professor  
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## HIGHER EDUCATION

**B.Sc.:** September 1981-June 1985  
Department of Mathematics  
Shanxi University (山西大学)  
Taiyuan City, Shanxi Province, China

**M.Sc.:** September 1987-June 1991  
Department of Mathematics  
Shanxi University (山西大学)  
Taiyuan City, Shanxi Province, China

**Ph.D.:** September 1991-October 1994  
Department of Mathematics  
Shanghai University of Science and Technology(上海科技大学)  
Shanghai, China

## EMPLOYMENT

**Lecturer:** November 1994-November 1996 (讲师)  
Department of Mathematics  
Nanjing University (南京大学)  
Nanjing City, Jiangsu Province, China

**Postdoctoral Fellow:** November 1994-November 1996 (博士后研究员)  
Department of Mathematics  
Nanjing University (南京大学)  
Nanjing City, Jiangsu Province, China

**Associate Professor:** December 1996-September 2000 (副教授)  
College of Science  
Civil Aviation University of China (中国民航大学)  
Tianjin, China

**Visiting Scholar:** October 2000-September 2001 (高级访问学者)  
Department of Mathematics and Statistics  
Bowling Green State University  
Ohio, U.S.A.

**Professor:** October 2000- (教授)  
College of Science  
Civil Aviation University of China (中国民航大学)  
Tianjin, China

### **ADMINISTRATION** 行政经历

- Head of the Department of Information and Computing Science, Civil Aviation University of China, (中国民航大学理学院信息与计算科学系主任), January 2000-June 2002
- Dean of the College of Science, Civil Aviation University of China, (中国民航大学理学院院长), July 2002-

### **HONORS**

- Title of Famous Teacher, Civil Aviation University of China, Tianjin, China, 2005 (中国民航大学教学名师)
- Title of Famous Teacher, Tianjin, China, 2006 (天津市教学名师)

### **TEACHING AWARD**

- Excellent Teacher, 1997/98 academic year, Tianjin, China. (天津市优秀教师)

### **COURSES I HAVE TAUGHT**

- Mathematical Analysis (B. Sc. course)
- Calculus (B. Sc. course)
- Linear Algebra (B. Sc. course)
- Functional Analysis (B. Sc. course)
- Real Analysis (B. Sc. course)
- Probability and Statistics (B. Sc. course)
- Nonlinear Analysis (M. Sc. course)
- Iteration Analysis (M. Sc. course)
- Numerical Method for Differential Equation (M. Sc. course)

### **CONFERENCE PRESENTATIONS**

- International Conference on Nonlinear Analysis and Optimization: Theory, Algorithms and Applications in Science and Engineering, August 13-15, 2012, Tianjin, China.

(main report)

- International Conference on Analytic Mathematics and its Applications (ICAMA2013), August 1-4, 2013, Tianjin China.(group report)

## **STUDENTS UNDER SUPERVISION OF SONGNIAN HE**

### **Current Students**

#### **Masters degree Students**

- Zhuo Yang (China)
- Hongzhi Liu (China)

### **Past Graduated Students**

#### **Masters degree Students**

- Liang Li (China), Master's degree in mathematics, April 2007.
- Liusha Zhang (China), Master's degree in mathematics, April 2008.
- Zhiming Li (China), Master's degree in mathematics, April 2009.
- Xu Wang (China), Master's degree in mathematics, April 2009.
- Cuimei Li (China), Master's degree in mathematics, April 2010.
- Ronghua Li (China), Master's degree in mathematics, April 2010.
- Tian Shi (China), Master's degree in mathematics, April 2011.
- Jili Meng (China), Master's degree in mathematics, April 2011.
- Xiaolan Liang (China), Master's degree in mathematics, April 2011.
- Nannan Zuo (China), Master's degree in mathematics, April 2011.
- Wenwen Sun (China), Master's degree in mathematics, April 2012.
- Dongyuan Wang (China), Master's degree in mathematics, April 2012.
- Yanmin Kong (China), Master's degree in mathematics, April 2012.
- Jun Guo (China), Master's degree in mathematics, April 2013.
- Wenlong Zhu (China), Master's degree in mathematics, April 2013.
- Ziyi Zhao (China), Master's degree in mathematics, April 2014.
- Biao Luo (China), Master's degree in mathematics, April 2014.

## **REFEREE FOR JOURNALS**

- System Science and Mathematics (in Chinese)
- Fixed Point Theory and Applications
- Optimazation
- Abstract and Applied Analysis
- Nonlinear Analysis: Theory, Methods and Applications
- Journal of Optimization Theory and Applications

## **LIST OF RECENT PUBLICATIONS**

{2008}

1. Zhao Jing, He Songnian, Su Yongfu, Weak and Strong Convergence Theorems for Nonexpansive Mappings in Banach Spaces, Fixed Point Theory and Applications, vol.2008, Article ID751383, 7 pages, 2008. Doi:10.1155/2008/751383.

## {2009}

2. He Songnian, Yang Caiping, Extensions and applications of Brouwer's fixed point theorem, *Journal of Nanjing University, Mathematical Biquarterly*, 26(2) (2009), 201-205.(in Chinese.)
3. He Songnian, Zhao Jing, Li Zhiming, Degree of convergence of modified averaged iterations for fixed points problem and operator equations, *Nonlinear Analysis*, 71(2009), 4098-4104.
4. He Songnian, Xu Hong-Kun, Variational inequalities governed by boundedly Lipschitzian and strongly monotone operators, *Fixed Points Theory*, 10(2)(2009), 245-258.
5. Li Zhiming, He Songnian, Zhao Jing, Convergence theorems on an implicit iterative process for approximating common fixed points of finite strictly pseudocontractive mappings, *J. Appl. Math. Comput.* 29(2009), 491-499.
6. Zhao Jing, He Songnian, A new iterative method for equilibrium problems and fixed point problems of infinitely nonexpansive mappings and monotone mappings, *Applied Mathematics and Computation*, 215(2009), 670-680.
7. Zhao Jing, He Songnian, Liu Guangxuan, Strong convergence theorems for generalized asymptotically quasi-nonexpansive mappings, *J Appl. Math. Comput.* 30 (2009): 53-64.

## {2010}

8. He Songnian, Liang Xiaolan, Hybrid steepest-Descent methods for solving variational inequalities governed by boundedly Lipschitzian and strongly monotone operators, *Fixed Point Theory and Applications*, Volume 2010, Article ID 673932, 16 pages, doi:10.1155/2010/673932.
9. He Songnian, Yang Caiping, Duan Peichao, Realization of the hybrid method for Mann iterations, *Applied Mathematics and Computation*, 217(8)2010: 4239-4247.
10. Shi Tian, He Songnian, Modified hybrid algorithms for Lipschitz quasi-pseudocontractive mappings in Hilbert spaces, *Computers and Mathematics with Applications*, 59 (8) (2010), 2940-2950.
11. He Songnian, Su Yongfu, Li Ronghua, Degree of Convergence of Iterative Algorithms for Boundedly Lipschitzian Strong Pseudocontractions, *Fixed Point Theory and Applications*, Volume 2010, Article ID 210340, 14 pages, doi:10.1155/2010/210340.
12. Zhao Jing, He Songnian, Weak and strong convergence theorems for asymptotically nonexpansive mappings, *J Appl. Math. Comput.* 32(2010), 279-287.
13. Zhao Jing, He Songnian, Weak and Strong Convergence Theorems for Asymptotically Strict Pseudocontractive Mappings in the Intermediate Sense, *Fixed Point Theory and Applications*, Volume 2010 (2010), Article ID 281070, 13 pages, doi:10.1155/2010/281070.
14. Dong Qiao-li, He Songnian, Su Fang, Strong convergence of an iterative algorithm for an infinite family of strict pseudo-contractions in Banach spaces, *Applied Mathematics and Computation*, 216(3)(2010), 959-969.

15. He Songnian, Zhaojing, Nonexpansive mappings defined on a star-shaped subset in Hilbert spaces, JP Journal of Fixed Point Theory and Applications, 5(2)(2010), 103-115.

**{2011}**

16. He Songnian, Shi Tian, Strong convergence theorems by generalized CQ method in Hilbert spaces, Fixed Point Theory, 12(2011), No. 2, 355-382.
17. Zhao Jing, He Songnian, Strong convergence theorems for equilibrium problem and quasi- $\phi$ -asymptotically nonexpansive mappings in Banach spaces, Analele Stiintifice ale Universitatii Ovidius Constanta (Mathematical Journal of the Ovidius University of Constantza), 19(1)(2011), 347-364.
18. Dong Qiao-li, He Songnian, Zhao Jing, Convergence theorems of shrinking projection methods for equilibrium problem, variational inequality problem and a finite family of relatively quasi-nonexpansive mappings, Applied Mathematics and Computation, 217(24)(2011), 10256-10266.
19. Dong Qiao-li, He Songnian, Su Fang, Strong convergence theorems by shrinking projection methods for class T mappings, Fixed Point Theory and Application, 2011, Article ID 681214, 7pages.
20. Zhao Jing, He Songnian, Dong Qiao-li, Strong Convergence Theorems for Generalized Equilibrium Problems, Variational Inequality and Fixed Point Problems of Asymptotically Strict Pseudocontractive Mappings in the Intermediate Sense, Thai Journal of Mathematics, 9(2)(2011), 243-259.
21. Dong Qiao-li, He Songnian, An iterative method for a finite family of variational inclusions, equilibrium problems and fixed point problems in Hilbert space, Advanced Modeling and Optimization, 13(3)(2011), 349-363.

**{2012}**

22. He Songnian, Zhu Wenlong, A Note on approximating curve with 1-norm regularization method for the split feasibility problem, Journal of Applied Mathematics, Volume 2012, Article ID 683890, 10 pages.
23. He Songnian, Guo Jun, Iterative Algorithm for Common fixed points of infinite family of nonexpansive mappings in Banach spaces, Journal of Applied Mathematics, Volume 2012, Article ID 787419, 13 pages.
24. He Songnian, Sun Wenwen, New hybrid steepest descent algorithms for variational inequalities over the common fixed points set of infinite nonexpansive mappings, WSEAS Transactions on Mathematics, Issue 2, Volume 11, February 2012.
25. Zhao Jing, He Songnian, A hybrid iteration scheme for equilibrium problem and common fixed point problems of generalized quasi- $\phi$ -asymptotically nonexpansive mappings in Banach spaces, Fixed Point Theory and Applications, (2012), 2012:33, doi:10.1186/1687-1812-2012-33.
26. Zhao Jing, He Songnian, Strong Convergence of the Viscosity Approximation Process for the Split Common Fixed-Point Problem of Quasi-Nonexpansive Mapping, Journal of Applied Mathematics, Volume 2012, Article ID 438023, 12 pages.

27. Zhao Jing, Yang Caiping, Liu Guangxuan, A new iterative method for equilibrium problems, fixed point problems of infinitely nonexpansive mappings and a general system of variational inequalities, WSEAS Transactions on Mathematics, Issue 1, Volume 11, January 2012: 34-43.

**{2013}**

28. He Songnian, Xu Hong-Kun, Uniqueness of supporting hyperplanes and an alternative to solutions of variational inequalities, J. Glob Optim. 57(2013), 1375-1384.
29. He Songnian, Guo Jun, Algorithms for finding the minimum norm solution of hierarchical fixed point problems, WSEAS Transactions on Mathematics, Issue 3, Volume 12, March 2013, 317-328.
30. He Songnian, Zhao Ziyi, Strong convergence of a relaxed CQ algorithm for the split feasibility problem, Journal of Inequalities and Applications, (2013), 213:197.
31. He Songnian, Zhu Wenlong, A modified Mann iteration by boundary point method for finding minimum-norm fixed point of nonexpansive mappings, Abstract and Applied Analysis, Volume 2013, Article ID 768595, 6 pages.
32. He Songnian, Yang Caiping, Solving the variational inequality problem defined on intersection of finite level sets, Abstract and Applied Analysis, Volume 2013, Article ID 942315, 8 pages.
33. Qiao-Li Dong, Songnian He, Convergence in Norm of Projection Regularized Krasnoselski-Mann Iterations for Fixed Points of Cutters, Numerical Functional Analysis and Optimization, 34(5)(2013), 485-495.
34. Qiao-Li Dong, Songnian He, Xiaoyan Liu, Rate of convergence of Mann, Ishikawa, Noor and SP-iterations for continuous functions on an arbitrary interval, Journal of Inequalities and Applications, 2013:269.
35. Qiao-Li Dong, Songnian He, Viscosity projection method for class T mappings, Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, 21(2) (2013), 95-109.
36. Qiao-Li Dong, Songnian He, Several projection algorithms for solving the split equality problem, WSEAS Transactions on Mathematics, 12(11)(2013), 1087-1096.

**{2014}**

37. He Songnian, Yang Caiping, Boundary point algorithms for minimum norm fixed points of nonexpansive mappings , Fixed Point Theory and Applications 2014, 2014: 56
38. He Songnian, Zhao Ziyi, Luo Biao, A relaxed self-adaptive CQ algorithm for the multiple-sets split feasibility problem, Optimization, 2014, doi.org/10.1080/02331934.2014.895898.
39. He Songnian, Zhao Ziyi , Luo Biao, A simple algorithm for computing projection onto intersection of finite level sets, Journal of Inequalities and Applications, 10.1186/1029-242X-2014-307.

40. Jing Zhao, Songnian He, Simultaneous iterative algorithms for the split common fixed-point problem of generalized asymptotically quasi-nonexpansive mappings without prior knowledge of operator norms, *Fixed Point Theory and Applications*, 2014, 2014:73.
41. Qiao-Li Dong, Songnian He, Modified projection algorithms for solving the split equality problems, *The Scientific World Journal*, Volume 2014, Article ID 328787, 7 pages.
42. Qiao-Li Dong, Yonghong Yao, Songnian He, Weak convergence theorems of the modified relaxed projection algorithms for the split feasibility problem in Hilbert spaces, *Optimization Letters*, 8(3)(2014), 1031-1046.
43. Peichao Duan, Songnian He, Generalized viscosity approximation methods for nonexpansive mappings, *Fixed Point Theory and Applications* 2014, 2014: 68.