RESUME

Name: Xingye YUE, 岳兴业
Gender: Male

Current Occupation:

Professor, School of Mathematical Sciences and Mathematical Center for Interdiscipline Research, Soochow University, Suzhou, Jiangsu 215006 China

Research Interests:

Multi-scale modeling and simulation on porous media and composite; Computational Finance; Numerical Methods for G-expectation.

Education:

Sept. 1984 – June 1988	BS, Soochow University Major: Mathematical Education
Sept. 1988 – June 1991	MS, Soochow University Major: Applied Mathematics
Sept. 1995 – June 1998	PhD, Soochow University Major: Applied Mathematics Supervisor: Professor Lishang Jiang

Working Experience:

July 2009	––	Present	Professor Dept. of Math., Soochow University
July 2006	––	July 2009	Professor Dept. of Math., Univ of Sci and Tech of China
Apr. 2005	––	June 2006	Professor Dept. of Math., Soochow University
July 1999	––	Mar. 2005	Associate Professor Dept. of Math., Soochow University
July 2000	––	July 2002	Post-doc Fellow Institute of Computational Mathematics, Chinese Academy of Sciences
June 1993	––	June 1999	Lecturer Dept. of Math., Soochow University
Sep. 1991	––	May 1993	Teaching Assistant Dept. of Math., Soochow University

Visiting Positions:

Jul. 2014	−−	Aug. 2014	Visiting Schoolar, PSU
Apr. 2013	−−	Apr. 2013	Visiting Research Member, Princeton U
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July 2012	−−	Aug. 2012	Senior Research Fellow, NUS
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Publications:

1. Xingye Yue, Numerical analysis on nonstationary thermistor problem, J. Comput. Math., V.12(3): 213-223 1994.

2. Lishang Jiang, Zuhan Liu, Fahuai Yi and Xingye Yue, A PDE problem arising from calculation of the model for continuous casting of steel, Appl. Math.-JCU, 10b, 1-10, 1995.

3. Xingye Yue, Finite element analysis for phase field model with non-smooth initial data, Acta Mathematicae Applicatae Sinica, V. 19, 15-24, 1996.

4. Xingye Yue, Lishang Jiang and and Tsi-min Shih, Finite element analysis of a local exponentially fitted scheme for time-dependent convection-diffusion problems. J. Comput. Math. V.17(3), 225-232, 1999.

5. Zhiming Chen, Tsi-min Shih and Xingye Yue, Numerical Methods for Stefan problems with prescribed convection and nonlinear flux. IMA J. Numer. Math. V.20(1), 81-98, 2000.

6. Lishang Jiang and Xingye Yue, Local exponentially fitted FE scheme for singularly convection-diffusion problems. J. Comp. Appl. Math., Vol.132(2), 277-293, 2001.

7. Xingye Yue, Local pointwise error estimate of modified method of characteristics, Chinese Annual of Mathematics, V. 23A(1), 79-86, 2002(in Chinese).

8. Xingye Yue, Local error estimates for methods of characteristics incorporating with streamline diffusion. Acta Mathematica Scientia，V.22(4), 564-576, 2002.

9. Xingye Yue, A note on practical bubbles for advection-diffusion problems. CALCOLO, V.39(4), 189-200, 2002.

10. Zhiming Chen and Xingye Yue, Numerical homogenization of well singularities in the flow transport through heterogeneous porous media. SIAM Multiscale Modeling and Simulation, V.1(2), 260-303, 2003.

11. Weinan E and Xingye Yue, Heterogeneous multiscale method for locally self-similar problems. Commun. Math. Sci., Vol. 2(1), 137-144, 2004.

12. Xingye Yue and Weinan E, Numerical methods for multiscale transport equations and application to two phase porous media flow, J. Comput. Phys., V.210(2), 656-675, 2005.

13. Pingbing Ming and Xingye Yue, Numerical methods for multiscale elliptic problems, J. Comput. Phys. V.214(1), 421-445, 2006.

14. Xingye Yue and Weinan E, The local microscale problem in the multiscale modeling of strongly heterogeneous media: effect of boundary conditions and cell Size, J. Comput. Phys., V.222(2), 556 - 572, 2007.

15. Meiqun Jiang and Xingye Yue, Numerical homogenization of well singularities in the flow transport through heterogenous porous media: fully discrete scheme, ESAIM: M2AN, V.41, 945 - 957, 2007.

16. Yun Bai, Xingye Yue and Qingfeng Zeng, Multi-scale modeling and numerical simulation for CVI process, Commun. Comput. Phys., V.7(3), 597-612, 2010.

17. Tao Yu and Xingye Yue, Residual-free bubble methods for numerical homogenization of elliptic problems, Commun. Math. Sci. V.9(4), 1163 -1176, 2011.

18. TaoYu and Xingye Yue, Exponentially Fitted Local Discontinuous Galerkin Method for Convection-Diffusion Problem, J. Comput. Math., V.30(3), 298-310, 2012.

19. Lei Zhao, Xingye Yue and David Waxman, Complete numerical solution of the diffusion equation of random genetic drift, Genetics, V.194(4), 973-985, 2013.

20. Haitao Cao and Xingye Yue, Homogenization of Richards' equation of van Genuchten-Mualem model, J. Math. Anal. Appl., 412, 391-400, 2014.

21. Haitao Cao, Tao Yu and Xingye Yue, A completely discrete heterogeneous multiscale finite element method for multiscale Richards' equation of van Genuchten-Mualem model, J. Appl. Math, DOI: 10.1155/2014/657816, 2014.

22. Lei Ge, Xiaosong Qian and Xingye Yue, Explicit formulas for pricing credit-linked notes with counterparty risk under reduced-form framework, IMA Journal of Management Mathematics, doi: 10.1093/imaman/dpt028, 2014

23. Shixin Xu and Xingye Yue, Homogenization of Thermal-Hydro-Mass transfer processes, DCDS-S, V.8(1), 55-76, DOI: 10.3934/dcdss.2015.8.55, 2015.

24. Na Li, Li Ren and Xingye Yue, Application and Validation of an Upscaling Method for Unsaturated Water Flow Processes in Heterogeneous Soils, Vadose Zone Journal, V.14(7), DOI: 10.2136/vzj2014.12.0171, 2015.

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Research Grants

1. NSFC Grant 10471102: Multiscale modeling and simulation for flow in porous media. (2005 – 2007)

2. NSFC Grant 10871190: Multiscale modeling and simulation for the processes of heat-flow-mass transport in porous media with lower permeability. (2009 – 2011)

3. 973 Project: 2005CB321704 (2005-2010)

4. NSFC Grant 11271281: Multiscale modeling, analysis and simulation for the process of chemical vapor infiltration. (2013 – 2016)