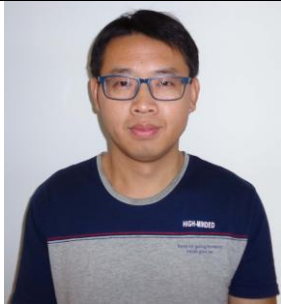


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社会兼职	无			
承担项目	<p>1. 国家自然科学基金数学天元青年基金：新型有限体积元方法及其在沿海洪水预报中的应用研究，2015/01-2015/12，（编号：11426134），主持。</p> <p>2. 江苏省“大规模复杂系统数值模拟”重点实验室开放研究基金：水波方程的保能量有限体积元方法，2015/01-2016/12，（编号：201403），主持。</p> <p>3. 中央高校基本科研业务费自主创新重点项目：有限体积元方法及其在流体力学中的应用，2015/01-2017/12，（编号：KYZ201565），主持。</p> <p>4. 国家自然科学基金：新型有限体积元方法及其在随机地球流体力学中的应用研究，11471166，2015 年 1 月-2018 年 12 月，（编号：11471166），参加。</p> <p>5. 国家自然科学基金：非线性最优扰动方法及其在数值天气预报中的应用研究，2011 年 1 月-2013 年 12 月，（编号：11071123），参加。</p> <p>6. 江苏省研究生培养创新工程：球面上准地转方程的新型有限体积方法，CXZZ12_0382，2012 年 6 月-2013 年 5 月，（编号：CXZZ12_0382），主持。</p>			
学术成果	<p>近期主要论文：</p> <p>1. Quanxiang Wang, Zhiyue Zhang, Quanyong Zhu. Non-linear and linear evolution of perturbation in stochastic basic flows. <i>International Journal of Non-Linear Mechanics</i>, 2015(77),291-298.</p> <p>2. Quanxiang Wang, Zhiyue Zhang, Xinhua Zhang and Quanyong Zhu, Energy-preserving finite volume element method for the improved Boussinesq equation, <i>Journal of Computational Physics</i>, 270, 58-69, 2014.</p> <p>3. Quanxiang Wang, Zhiyue Zhang, High-order upwind finite volume element schemes for modeling of neuronal firing, <i>International Journal of Computer Mathematics</i>, 91, 625-640,2014.</p> <p>4. Quanxiang Wang, Zhiyue Zhang and Zhilin Li, A Fourier finite volume element method for solving two-dimensional quasi-geostrophic equations on a sphere, <i>Applied Numerical Mathematics</i>, 71, 1-13, 2013.</p> <p>5. Quanxiang Wang, Zhiyue Zhang and Quanyong Zhu, Numerical simulation of the</p>			

	<p>stochastic damped improved Boussinesq equation. Journal of Mathematical Physics, 54(013503), 1-18, 2013.</p> <p>6. Quanxiang Wang, Suli Lin and Zhiyue Zhang, Numerical methods for a fluid mixture model, International Journal for Numerical Methods in Fluids, 71, 1-12, 2013.</p> <p>7. Quanxiang Wang, Pingwei Liu and Zhiyue Zhang, A characteristic finite volume element method for an air pollution model, Numerical Functional Analysis and Optimization, 34(6), 664-694, 2013.</p> <p>8. Quanyong Zhu, Quanxiang Wang and Zhiyue Zhang, The fractional steps domain decomposition method for numerical solution of a class of viscous wave equations, Computational Mathematics and Mathematical Physics, 53(7), 1013-1025, 2013.</p> <p>9. Quanyong Zhu, Quanxiang Wang, Ju Fu and Zhiyue Zhang, New second order finite difference scheme for the problem of contaminant in groundwater flow, Journal of Applied Mathematics, 2012(2012)1-13, 2012.</p> <p>10. Zhiyue Zhang, Yuping Wang and Quanxiang Wang, A characteristic centered finite difference method for a 2d air pollution model, International Journal of Computer Mathematics, 88(10), 2178-2198, 2011.</p> <p>11. Zhiyue Zhang, Quanxiang Wang, Optimal control of air quality based on derivative-free optimization method, International Journal of Mathematical Modelling and Numerical Optimisation, 4(3), 195-209, 2013.</p> <p>12. Quanxiang Wang, Quanyong Zhu, Second-order flux limiter schemes for a fluid mixture model, Journal of Computational Intelligence and Electronic Systems, 1(1), 109-113, 2012.</p>
<p>奖励荣誉</p>	<p>2014 年博士学位论文《流体力学中几类波方程的有限体积元方法》获“南京师范大学优秀博士研究生学位论文”</p>

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Research field	Optimal control problems with PDE constraints;Computational fluid dynamics			
Social appointments	No			
Research projects	<ol style="list-style-type: none"> 1. National Natural Science Foundation of China, “New finite volume element method and its application for prediction of coastal flooding”, January 2015-December 2015,(No: 11426134)(PI). 2. Open Research Fund by Jiangsu Provincial Key Laboratory for Numerical Simulation of Large Scale Complex Systems, “Energy-preserving finite volume element methods for shallow water equations”, January 2015-December 2016, (No: 201403) (PI) 3. Fundamental Research Funds for Central Universities of China KYZ201565, “Finite volume element methods and its application in fluid dynamics”, January 2015-December 2017, (No: KYZ201565) (PI). 4. National Natural Science Foundation of China, “New finite volume element methods and its application in stochastic fluid dynamics”, January 2015-December 2018, (No: 11471166) (Co-PI). 5. National Natural Science Foundation of China, Nonlinear Optimal Perturbation Method and Its Application in Numerical Weather Prediction, January 2011 - December 2013, (No: 11071123)(Co-PI). 6. Innovation Program for University Postgraduates in Jiangsu Province, New finite volume method for quasi-geostrophic Equation on a sphere Juln 2012-May 2013, (No: CXZZ12_0382)(PI). 			
Academic achievements	<p>Recent Publications:</p> <ol style="list-style-type: none"> 1. Quanxiang Wang, Zhiyue Zhang, Quanyong Zhu. Non-linear and linear evolution of perturbation in stochastic basic flows. International Journal of Non-Linear Mechanics, 2015(77),291-298. 2. Quanxiang Wang, Zhiyue Zhang, Xinhua Zhang and Quanyong Zhu, Energy-preserving finite volume element method for the improved Boussinesq equation, Journal of Computational Physics, 270, 58-69, 2014. 3. Quanxiang Wang, Zhiyue Zhang, High-order upwind finite volume element schemes for modeling of neuronal firing, International Journal of Computer 			

	<p>Mathematics, 91, 625-640,2014.</p> <p>4. Quanxiang Wang, Zhiyue Zhang and Zhilin Li, A Fourier finite volume element method for solving two-dimensional quasi-geostrophic equations on a sphere, Applied Numerical Mathematics, 71, 1-13, 2013.</p> <p>5. Quanxiang Wang, Zhiyue Zhang and Quanyong Zhu, Numerical simulation of the stochastic damped improved Boussinesq equation. Journal of Mathematical Physics, 54(013503), 1-18, 2013.</p> <p>6. Quanxiang Wang, Suli Lin and Zhiyue Zhang, Numerical methods for a fluid mixture model, International Journal for Numerical Methods in Fluids, 71, 1-12, 2013.</p> <p>7. Quanxiang Wang, Pingwei Liu and Zhiyue Zhang, A characteristic finite volume element method for an air pollution model, Numerical Functional Analysis and Optimization, 34(6), 664-694, 2013.</p> <p>8. Quanyong Zhu, Quanxiang Wang and Zhiyue Zhang, The fractional steps domain decomposition method for numerical solution of a class of viscous wave equations, Computational Mathematics and Mathematical Physics, 53(7), 1013-1025, 2013.</p> <p>9. Quanyong Zhu, Quanxiang Wang, Ju Fu and Zhiyue Zhang, New second order finite difference scheme for the problem of contaminant in groundwater flow, Journal of Applied Mathematics, 2012(2012)1-13, 2012.</p> <p>10. Zhiyue Zhang, Yuping Wang and Quanxiang Wang, A characteristic centered finite difference method for a 2d air pollution model, International Journal of Computer Mathematics, 88(10), 2178-2198, 2011.</p> <p>11. Zhiyue Zhang, Quanxiang Wang, Optimal control of air quality based on derivative-free optimization method, International Journal of Mathematical Modelling and Numerical Optimisation, 4(3), 195-209, 2013.</p> <p>12. Quanxiang Wang, Quanyong Zhu, Second-order flux limiter schemes for a fluid mixture model, Journal of Computational Intelligence and Electronic Systems, 1(1), 109-113, 2012.</p>
<p>Reward & honor</p>	<p>The award of excellent doctor degree dissertation by Nanjing Normal University for the title "Finite volume element methods for some wave equations in fluid dynamics" in 2014</p>