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学历学位：博士研究生

职称：教授

研究方向：偏微分方程

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### 教育与研究经历：

#### 教育经历

- (1) 2004.09 - 2007.06, 南京师范大学, 基础数学, 博士, 导师: 高洪俊
- (2) 1997.09 - 2000.07, 南京大学, 基础数学, 硕士, 导师: 谢春红
- (3) 1987.09 - 1991.07, 南京大学, 计算数学与应用软件, 学士

#### 研究经历

- (1) 2015.09-2015.10, 美国威廉与玛丽学院, 数学系, 访问学者
- (2) 2014.08-2014.11, 美国弗吉尼亚大学, 数学系, 访问学者
- (3) 2014.01-2014.02, 美国威廉与玛丽学院, 数学系, 访问学者
- (4) 2011.10-2011.11, 新加坡国立大学, 数学系, 访问学者
- (5) 2004.05-至今, 南通大学, 理学院, 副教授、教授
- (6) 1996.01-2004.04, 南通师范学院, 数学系, 讲师
- (7) 2007.09-2009.09, 东南大学数学博士后流动站, 博士后, 合作导师: 王明新

### 研究领域与兴趣：

偏微分方程的理论及应用

#### 教学情况：

本科生：数学分析、高等代数、高等数学、数学物理方程、泛函分析，专业英语

研究生：偏微分方程、微分方程定性理论、泛函分析、Soblev 空间

### 承担项目与课题:

1. 国家自然科学基金面上项目, 11271209, 用小波分析乘子空间和非线性量的微局部结构, 2013/01-2016/12, 60 万元, 已结题, 参加
2. 国家自然科学基金面上项目, 11071049, 反应扩散捕食模型的平衡解及相关问题, 2011/01-2013/12, 25 万元, 已结题, 参加
3. 国家自然科学基金面上项目, 10571087, 地球科学和物理中的非线性偏微分方程方程的动力学, 2006/01-2008/12, 24 万元, 已结题, 参加

### 代表作:

- (1) Yujuan Chen and Mingxin Wang, Boundary blow-up solutions for p-Laplacian elliptic equations of Logistic type, Proc. Royal Soc. Edingburg, 142A (2012) 691-714
- (2) Hongliang Wang, Yujuan Chen, Haihua Lu, Blow-up results for some reaction-diffusion equations with time delay, Ann. Polon. Math., 105.1 (2012) 21-29
- (3) Yujuan Chen and Mingxin Wang, Boundary blow-up solutions of p-Laplacian elliptic equations with a weakly superlinear nonlinearity, Nonlinear Anal. Series B: RWA 14 (2013) 1527-1535
- (4) Yujuan Chen, Juan Wang, Haixing Zhang, Extinction for a couple of fast diffusion systems with nonlinear sources, Nonlinear Anal. Series B: RWA 14 (2013) 1931-1937
- (5) Yujuan Chen, Peter Y. H. Pang and Mingxin Wang, Blow-up rates and uniqueness of large solutions for elliptic equations with nonlinear gradient term and singular or degenerate weights, manuscripta math. 141 (2013) 171-193
- (6) Li Chen, Yujuan Chen and Dang Luo, Boundary blow-up solutions for a cooperative system involving p-Laplacian, Ann. Polon. Math. 109 (2013), 297-310.
- (7) Yujuan Chen, Yueping Zhu, Ruiya Hao, Large solutions with a power nonlinearity given by a variable exponent for p-Laplacian equations, Nonlinear Analysis 110 (2014) 130-140

- (8) Mingxin Wang, Peter Y. H. Pang, Yujuan Chen, Initial and boundary blow-up problem for  $p$ -Laplacian parabolic equation with general absorption, *J Dyn Diff Equat* (2016) 28:253–279
- (9) Haixing Zhang, Yujuan Chen, Extinction for the super diffusion equation with a nonlocal absorption and a gradient source, *Applied Mathematics Letters*, 61 (2016) 163–166
- (10) Yujuan Chen, Boundary behavior for the Large viscosity solutions to equations involving the infinity-Laplacian, *Applicable Analysis*, 96(12)(2016):1-10
- (11) Yujuan Chen, Yueping Zhu, Blow-up results for evolution problems with inhomogeneous nonlocal diffusion, *J. Math. Anal. Appl.* 444 (2016) 452–463
- (12) Yujuan Chen, Dynamics of prey-predator  $n$ -species models with density dependent diffusion, *Comput. Math. App.*, 72(6), (2016)1727-1742
- (13) Yujuan Chen and Li Chen, Existence, uniqueness, and blow-up rate of large solutions to equations involving the  $\infty$ -Laplacian on the half line, *Math. method. appl. sci.*, 2017, 40(12)DOI: 10.1002/mma.4327
- (14) Qi Qi, Yujuan Chen and Qingshan Wang, Blow-up phenomena for a pseudo-parabolic system with variable exponents, *Electronic Journal of Qualitative Theory of Differential Equations* 2017, No. 36, 1–9; doi: 10.14232/ejqtde.2017.1.36
- (15) Haihua Lu, Yujuan Chen, Jingqiu Yu, Analysis on a coupled parabolic system with free boundary, *J. Math. Anal. Appl.* 468(2018) 436–460
- (16) Yujuan Chen, Yueping Zhu, Effect of harvesting quota and protection zone in a nonlocal dispersal reaction–diffusion equation, *Nonlinear Anal. Series B: RWA* 45 (2019) 854–865