

PERSONAL:

Name: Xiao Yan Zhou
Department: Department of Mathematics, College of Sciences
Gender: Female
Degree: Master of Science
Title: Associate Professor
Major: Algebra
Graduated University: Nanjing Agricultural University
Research Field: Hopf Algebra and Homological Algebra
Building: B512 Fourth Teaching Building
Email: zhouxy@njau.edu.cn



BRIEF INTRODUCTION:

My research is concentrated on weak Hopf Algebra and Homological Algebra. I have published 14 papers in domestic and international journals, including 9 SCI papers and 5 core journals articles. I was the principle investigator of 3 provincial and school level research projects; and I have participated in five national and provincial level research projects.

I am mainly engaged in the teaching of four undergraduate courses, namely "Calculus", "Probability Theory", "Linear Algebra" and "Special Topics in Advanced Algebra". I have been the principle investigator or participated in eight teaching reform projects. I was the associate editor or co-editor of two "Linear Algebra" textbooks. I have published a paper about teaching reform.

EDUCATION:

M.S., Applied Mathematics, Nanjing Agricultural University, 2007

B.S., Applied Mathematics, Southeast University, 2000

WORKING EXPERIENCE

01/2012-Present, **Associate Professor**, Mathematics Department, Nanjing Agricultural University

05/2006-12/2011, **Assistant Professor**, Mathematics Department, Nanjing Agricultural University

07/2000-04/2006, **Lecturer**, Mathematics Department, Nanjing Agricultural University

RESEARCH PROJECTS

[8] Chair the Fundamental Research Funds for the Central Universities "Modules and algebraic structure theorem of finite dimensional Hom-Hopf algebra" under Grant No. KYZ201322.

(01/2013-12/2016)

[7] Participate the National Natural Science Foundation of Youth Project "Research on analytic structures and relevant quantum invariants for algebraic quantum groupoids" under Grant No. 11601231. (01/2017-12/2019)

[6] Participate the National Natural Science Foundation of Youth Project "Research of Hom-Hopf algebra and its structure" under Grant No.11401311. (01/2015-12/2017)

[5] Participate the Specialized Research Fund for the Doctoral Program of Higher Education of China "Research of the structure of weak relative Hopf module and its endomorphism algebras" .(01/2011-01/2013)

[4] Participate the Fundamental Research Funds for the central Universities "Research of the structure of weak Smash product and weak Doi-Hopf module". (05/2011-05/2013)

- [3] Participate the Foundation for Key Program of Ministry of Education of China “Research of the structure of (co)module algebra and Doi-Hopf module over weak Hopf”.(2008-2011)
- [2] Chair the Youth Innovation Fund Project of College of Sciences, Nanjing Agricultural University “Structure theorem of weak Hopf quantum Yang-Baxter module and the duality theorem of weak Twisted Smash Product” .(06/2009-05/2011)
- [1] Chair the Youth Innovation Fund Project of Nanjing Agricultural University “Maschke-Type Theorem for Two-Sided Smash Products” under Grant No.Y200626. (07/2006-12/2007)

TEACHING PROJECTS

- [8] Chair the Online Open Course Construction of “Linear Algebra” (2017).
- [7] 12th five-year plan textbook “Linear Algebra” for national agricultural and forestry universities, which was published in April 2013 by Chinese Agriculture Press (Associate editor).
- [6] Chair the Teaching reform project “Exploration and implementation of research-based teaching and learning model of college-mathematics in agriculture and forestry universities” under Grant No. 2011Y042.(2011-2013)
- [5] Teaching reform article “Exploration of research-based teaching model of college-mathematics in agricultural and forestry universities”, China Education Innovation Herald, 2013, (25): 25-26 (Author).
- [4] Writing and editing of the Facing the 21st century textbook “Linear Algebra”, which was awarded the quality textbook of Jiangsu Province prize in 2011 (Participant).
- [3] Participate the Construction of the university level quality course “Advanced Algebra”. (2011).
- [2] Participate the University teaching reform project “Reform and innovation of Information and Computer Science teaching”.(2008)
- [1] Participate the University teaching reform project “System reform and content integration of the foundation curriculum of the mathematical education in agricultural universities based on the quality education point of view”. (2007)

TEACHING INFORMATION:

Calculus (fall)
 Special Topics in Advanced Algebra (spring)
 Linear Algebra (spring)
 Probability (spring)

HONOURS AND AWARDS

- [20] Excellent teaching quality award of Nanjing Agricultural University (2017)
- [19] Excellent end-of year evaluation award (2017)
- [18] Outstanding individual award of the 4th Teaching ethics competition of Nanjing Agricultural University (2016)
- [17] Excellent end-of year evaluation award (2016)
- [16] **First prize** of the 2nd Microlecture teaching competition of Nanjing Agricultural University (2015)
- [15] **Third prize** of the Microlecture teaching competition of Jiangsu Province (2015)
- [14] Excellent teaching quality award of Nanjing Agricultural University (2015)
- [13] Excellent end-of year evaluation award (2015)

- [12] Excellent teaching quality award of Nanjing Agricultural University (**2014**)
- [11] **2nd prize** of the university level excellent thesis award was awarded to a thesis advised by me (**2014**)
- [10] Excellent researching teacher award (2011-2013) (**2013**)
- [9] Teaching award of Nanjing Agricultural University (**2012**)
- [8] **First prize** of the young teachers college-mathematics-foundation-course teaching competition of Jiangsu Province (**2011**)
- [7] Excellent end-of year evaluation award (**2011**)
- [6] Excellent end-of year evaluation award (**2010**)
- [5] **First prize** of the 9th young teachers teaching competition of Nanjing Agricultural University (**2010**)
- [4] **First prize** of the young teachers teaching competition of the College of Science of Nanjing Agricultural University (**2010**)
- [3] **First prize** of the young teachers teaching competition of the College of Science of Nanjing Agricultural University (**2008**)
- [2] Teaching award of the College of Science of Nanjing Agricultural University (**2008**)
- [1] **Excellent teaching quality** evaluations for **13 semesters**.

JOURNAL PAPERS

- [14] **Xiao yan Zhou**, Tao Yang, Gorenstein Homological Properties for Hopf-Galois Extensions, Colloquium Mathematicum, **2018**, Accepted.
- [13] Tao Yang, **Xiao yan Zhou***, Another construction of the braided T-category, Journal of Algebra and its Applications, **2017**, 16(1), 1750035 (15 pages).
- [12] **Xiao yan Zhou**, Qiang Li, Finitistic dimension of weak Hopf-Galois extensions, Filomat , **2016**, 30(10), 2825–2828.
- [11] **Xiao yan Zhou**, Min Wei, Notes on cotorsion dimension of Hopf-Galois extensions, Turkish Journal of mathematics, **2016**, 40(1), 108-113.
- [10] **Xiao yan Zhou**, Tao Yang, Spectral sequence and finitely presented dimension for weak Hopf-Galois Extensions, Mathematical Notes, **2015**, 198(5), 820-830.
- [9] Yuanyuan Chen, **Xiao yan Zhou***, Separable and Frobenius monoidal Hom-algebras, Colloquium Mathematicum, **2014**, 137(2), 229-251.
- [8] **Xiao yan Zhou**, Homological dimension of weak Hopf-Galois extensions, Acta mathematica hungarica, **2013**, 138(1), 140-146.
- [7] **Xiao yan Zhou**, Maschke-type theorem and duality theorem for weak twisted smash products, Taiwanese Journal of Mathematics, **2011**, 15(6), 2701-2719.
- [6] **Xiao yan Zhou**, Qiang Li, Liang yun Zhang, The duality theorem for L-R weak smash products, Applied Mathematics-A Journal of Chinese University Series B, **2010**, 25(4), 481-488.
- [5] **Xiao yan Zhou**, Qiang Li, Maschke-type theorem for L-R Crossed Products, Journal of Nanjing University Mathematical Biquarterly, **2011**, 28(2), 139-1468.
- [4] **Xiao yan Zhou**, Liang yun Zhang, The fundamental theorem of weak Hopf Quantum Yang_Baxter H-Modules, Journal of Mathematics, **2010**, 30(1) , 54-62.
- [3] Rui fang Niu, **Xiao yan Zhou**, Yong Wang, Liang yun Zhang, The Maschke theorem for L-R-smash products, Advances in Mathematics, **2010**, 39(6), 657-664.
- [2] **Xiao yan Zhou**, Liang yun Zhang, Maschke-Type Theorem for Two-Sided Weak Smash

- Products, Journal of Mathematical Research & Exposition, **2008**, 28(4), 855-863.
- [1] **Zhou xiao yan**, Zhang liang yun, Maschke-Type Theorem for Two-Sided Smash Products, Journal of Nanjing University Mathematical Biquarterly, **2007**, 24(1), 95-108.