

Bingbing Zhou [Ph.D. Student](#)

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Research Interests

- [Landscape sustainability](#) and [land architecture](#) of [coupled rural-urban systems](#)
- [Agent-based modeling](#) of [coupled social-ecological \(infrastructure\) systems](#)
- [Applications of mutiple methods](#) (e.g., remote sensing, GIS, surveys, experiments, modeling, etc.)
- [Rural development](#), [sustainability science](#), landscape ecology and planning, land use change and policy

Education

- ◆ Ph.D. in Sustainability, School of Sustainability, ASU, 2015.08-now
✚ Committee: Professor [Jianguo Wu](#) (Chair), [Marco Janssen](#), [Billie Turner II](#), [Marty Anderies](#), and [Rimjhim Aggarwal](#)
- ◆ M.S. in Land Resource Management, School of Geographic and Oceanographic Sciences, Nanjing University (NJU) 2012.09-2015.06
✚ GPA: 89.4/100, Ranking: unknown, Supervisor: [Professor Shenglu Zhou](#)
✚ Thesis: [Methodology for soil quality assessment of farmlands reclaimed from rural residential lands](#) (In Chinese)
- ◆ Double M.S. study in Environmental Earth Science, NJU-Freie Universität Berlin 2012.09-2015.06
✚ Supervisor: Professor [Frank Riedel](#) and [Bernd Wünnemann](#)
- ◆ B.S., Major in Resources, Environment and Urban-Rural Planning and Management, School of Geographic and Oceanographic Sciences, NJU 2007.09-2012.06
✚ GPA: 89.8/100, Ranking: 2/28, Supervisor: [Professor Shenglu Zhou](#) and [Jianxin Zhang](#)
✚ Thesis: [Urban-rural income disparities in transitional China: Interprovincial variations and policy implications](#) (In Chinese)
- ◆ B.S., Minor in International Finance, School of Business, NJU 2007.09-2012.06

Skills

- ◆ **Professional Software:** ArcGIS, ENVI, QCA, SPSS, Fragastats, Conefor, Graphab, GeoDa, Win QSB, Unicet
- ◆ **Graphing Software:** Adobe Illustrator, Origin Pro, Visio, Photoshop, SigmaPlot
- ◆ **Programming:** NetLogo, R, Python, Stata, Matlab, Octave, C, Visual Basic
- ◆ **Language:** Chinese (native), English (fluent), German (basic)

Work Experience (selected)

- ◆ Teaching Assistant in the Class *Sustainable Cities*, with [Dr. Bjoern Hagen](#) 2016.01-now
✚ Assisted in grading and instructing the undergrad students
- ◆ Research Assistant in *Thousand Island Lake Project*, with [Professor Jianguo Wu](#) 2015.08-2015.12
✚ Processed SPOT and Landsat images using ENVI and ArcGIS to build land use database
✚ Helped in drafting a research paper
- ◆ Invited Research Assistant in *Jiangbei New District Land Use Policy Project*, with [Dr. Qing Zhu](#) 2015.05-2015.08
✚ Drafted the grant proposal, coordinated meetings with our research partners.
✚ Executed the project via leading a group of grad and undergrad students to conduct interviews, household surveys, and indoor analysis

- ◆ **Research Assistant in *Land Resources and Soil Biogeochemistry Lab*, with [Professor Shenglu Zhou](#)** 2011.09-2015.05
 - ✚ Executed two projects on China's land use transition and reclaimed farmland quality assessment, respectively
 - ✚ Participated in other projects on land use policy, soil quality assessment, land use planning, etc.
 - ✚ Helped in drafting grant proposals, supervising junior lab grads and undergrads
- ◆ **Intern Head in [Shanghai Municipal Planning and Land Resources Management Bureau](#)** 2014.07-2014.08
 - ✚ Participated in the Shanghai Country Park Unit Planning, using ArcGIS and partly AutoCAD.
 - ✚ Learned China's modern agricultural land use policies, and oversaw applications of local projects.
 - ✚ Investigated the tourism-oriented land use planning of a typical town, the Zhujiajiao Town.
- ◆ **Assistant Planner (Intern) in [Nanjing Nanyuan Land Use and Development Consulting Co., Ltd](#)** 2011.07-2011.09
 - ✚ Participated in various land use planning projects (county level), using ArcGIS and partly AutoCAD

Publications

- ◆ **2017:**
 - X. Y. Gan, I. C. Fernandez, J. Guo, M. Wilson, Y. Y. Zhao, **B. B. Zhou**, and J. G. Wu. [When to use what: Methods for weighting and aggregating sustainability indicators](#). *Ecological Indicators*, 2017, (81): 591-502.
- ◆ **2016:**
 - Y. Z. Zang, S. L. Zhou S, **B. B. Zhou**, and Y. Y. Wu. [Volume changes and spatial pattern dynamics of China's interprovincial migration: A perspective of social network analysis](#). *Human Geography (In Chinese with English abstract)*, 2016, 131(4): 112-118.
- ◆ **2015:**
 - **B. B. Zhou**, S. L. Zhou, L. G. Lv, and C. F. Lu. [Interprovincial variations of farmland expropriation in China and the estimation of lost-land farmers](#). *Chinese Agricultural Science Bulletin (In Chinese with English abstract)*, 2015, 31(11): 284-290.
 - L. Chen, S. L. Zhou, **B. B. Zhou**, et al. [Characteristics and driving forces of regional land use transition based on the dominant function classification: A case study of Jiangsu province](#). *Economic Geography (In Chinese with English abstract)*, 2015, (2): 155-162.
 - L. G. Lv, S. L. Zhou, **B. B. Zhou**, et al. [Response of land use changes to human activities in Jiangsu province since 1985](#). *Resources and Environment in the Yangtze Basin (In Chinese with English abstract)*, 2015, 24(7): 1086-1093.
 - C. F. Lu, S. L. Zhou, B. J. Wang, **B. B. Zhou**, and G. Li. [Spatial pattern and zonation policy evaluation of the county-level economic development in the developing Jiangxi Province](#). *Areal Research and Development (In Chinese with English abstract)*, 2015, 34(1): 37-42.
 - X. C. Wu, W. M. Ju, Y. L. Zhou, et al. [Performance of linear and nonlinear two-leaf light use efficiency models at different temporal scales](#). *Remote Sensing*, 2015, 7(3), 2238-2278.
- ◆ **2014:**
 - X. C. Wu, W. M. Ju, Y. L. Zhou, **B. B. Zhou**, Y. B. Liu. [Evaluation of downward surface solar radiation of three reanalysis products over China](#). 2014 International Workshop on Satellite Application and Public Service. November 15-16, 2014, Guangzhou, China.
- ◆ **2013:**
 - X. L. Yang, Q. Q. Yang, **B. B. Zhou**, et al. [Potential calculation and time-serials zoning for rural residential land consolidation at county scale](#). *Transactions of the Chinese Society of Agricultural Engineering (In Chinese with English abstract)*, 2013, 29(12): 235-245.
 - L. G. Lv, S. L. Zhou, **B. B. Zhou**, et al. [Land use transition and its eco-environmental response in the process of regional development: A case study of Jiangsu province](#). *Scientia Geographica Sinica (In Chinese with English abstract)*, 2012, 33(12): 1442-1449.
- ◆ **2012:**
 - **B. B. Zhou**, S. L. Zhou. [Review on Chinese urban-rural individual income gap](#). Geographical Society of China Academic Conference 2012 (Chinese abstract), 2012: 201.

◆ **2011:**

- **B. B. Zhou**, Y. K. Dai, Y. Zhang. [Interprovincial differences of the economic effects of the real estate industry in China](#). *Statistics and Decision* (In Chinese), 2011, (23): 76-79.
- X. C. Wu, **B. B. Zhou**. [Multi-level analysis on the provincial differences about energy consumption of Central China](#). *China Population, Resources and Environment* (In Chinese with English Abstract), 2011, 21(12): 357-361.

Public Services (selected)

- ◆ **Reviewer for [GPSA Research Grant at ASU](#)** 2015.08-now
 ✚ Reviewed 5 to 10 proposals per semester for four consecutive semesters
- ◆ **Part-time assistant in [Cyrus Tang Foundation](#) (USA) Jiangsu Office, with [Dr. Ruilin Wu](#)** 2011.09-2015.05
 ✚ Assisted in instructing the CTF volunteer student organizations in five universities in Nanjing, China
- ◆ **Cohort President at NJU** 2012.09-2015.05
 ✚ Organized social activities between different majors in my school
 ✚ Served as the part-time assistant on graduate affairs of my school
 ✚ Assisted in establishing and enhancing academic exchange with other related institutions and schools
- ◆ **President of the Union of Volunteer Associations in NJU (> 1000 registered members)** 2010.09-2011.06
 ✚ Coordinated various voluntary activities of the component volunteer associations in NJU
 ✚ Conducted workshops on voluntary issues attended by presidents of those united associations
 ✚ Led groups to teach students in high schools and middle schools over weekends and summer breaks

Honors & Rewards

- ◆ Wrigley Fellowship from School of Sustainability, ASU 2016-2017
- ◆ The DAAD Fellowship "Integrated international double degree study programs" Top 5% 2012-2014
- ◆ Outstanding Undergraduate Graduation Thesis of Nanjing University Top1% 2012
- ◆ Outstanding Undergraduate of Nanjing University Top5% 2012
- ◆ The Skyline Fellowship for Model Undergraduate with Outstanding Research Capability Top1% 2011
- ◆ Google Fellowship for Campus Star with Substantial Volunteer Devotion Top1% 2011
- ◆ Excellent Student Leader of Nanjing University Top1% 2010
- ◆ National Encouragement Scholarship Top 5% 2008-2012

Sponsored Research Activities

- ◆ **[Neely Foundation Food and Agriculture Sustainability Research Grant](#)** 2017
 ✚ Name of the research: *Sustainable policies for increasing food security of coupled rural-urban systems: A case study in China using multiple methods*
 ✚ Grant mentor: [Dr. Rimjhim Aggarwal](#)
 ✚ Duration of the grant: 04/15/2017 - 12/15/2017
 ✚ Amount of the grant: \$3991
- ◆ **[Qingcheng Summer School for Farmer, Agriculture, and Rural Studies](#)** 2017
 ✚ Research report (second and corresponding author): [Exploring social enterprise mode for eco-civilization: The Yuefeng Island pilot and its sustainability](#) (Chinese abstract, book to be published)
 ✚ Sponsors of the research: [Advanced Institute of Sustainable Development](#), [Renmin University of China](#); [Institute of Rural Reconstruction of China](#), [Southwest University of China](#), [Kunshan City Construction Investment Development Group Co., Ltd.](#)
 ✚ Duration of the research: 08/05/2017 - 08/16/2017
 ✚ Amount of the financial support: Unclear, costs all covered

Updated on 10/04/2017