

Dr. Yanni Cao

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EDUCATION

2015-2021 **Ph.D., Human Geography**, College of Resources and Environment, University of Chinese Academy of Sciences

➤2016.11-2017.4: Suspension of schooling

Dissertation: The Impact of Urbanization in China upon its Ecosystem Pattern and Ecosystem Services.

Advisors: Lufeng Zhang & Zhiyun Ouyang

Ph.D. Committee: Jun Yang, Weiqi Zhou, Weiping Chen, Fang Wang, Tong Cui

2012-2014 **M.Ed., Subject Teaching (Geography)**, College of Geography, Faculty of Geographical Science, Beijing Normal University, Beijing

Thesis: Analysis of the Journal of Geography from 1990 to 2012

Advisor: Dongying Wei

2008-2012 **B.S., Geographic Science**, College of Geography and Environmental Science, Northwest Normal University, Lanzhou

B.A., English (minor degree), College of Foreign Languages & Literature, Northwest Normal University, Lanzhou

ACADEMIC APPOINTMENTS

2021-2023 **Postdoc Research Fellow & Special Research Assistant**, State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

2017-2018 **Teaching Assistant**, University of Chinese Academy of Sciences, College of Resources and Environment

RESEARCH INTERESTS

Ecosystem pattern • Ecosystem service • GIS • Landscape ecology • Land-use change • Remote sensing • Social-ecological systems • ecosystem assets • Urbanization Economic • Efficiency of urbanization • Relationship between urbanization and ecosystem patterns/ assets/ services • Sustainability science

AWARDS

2017	National Academic Scholarship (RMB 13,000)
2015	National Academic Scholarship (RMB 13,000)
2014.04	Excellent Intern of Graduate School of Beijing Normal University
2013.04	The work “ <i>Mysteries of the Universe</i> ” was selected as the Excellent Courseware of Popular Knowledge of Land Resources and Earth Science, Ministry of Natural Resources
2009.12	School-level academic research grant of Northwest Normal University (RMB 1200)
2009-2010	Foreign Language Omnipotent Award, College of Geography and Environmental Science, Northwest Normal University (RMB 200)
2009-2010	Learning Excellence Award, College of Geography and Environmental Science, Northwest Normal University (RMB 500)
2008-2009	Learning Excellence Award, College of Geography and Environmental Science, Northwest Normal University (RMB 500)

JOURNAL ARTICLES

1. Tang L, Lan T, Xing X, Xie T, Li W, Fang C, **Cao Y**, Xu Y, Chen D, Wang L, Wu Z, Xu Z, Zhou W. Past achievements and future strategies of eco-environmental construction in mega urban agglomerations in eastern China. *Bulletin of Chinese Academy of Sciences*, 2023, 38(3): 394-406. doi:10.16418/j.issn.1000-3045.20230120003. (in Chinese)
2. **Cao Y**, Kong L, Ouyang Z. Characteristics and Driving Mechanism of Regional Ecosystem Assets Change in the Process of Rapid Urbanization—A Case Study of the Beijing–Tianjin–Hebei Urban Agglomeration. *Remote Sensing*. 2022;14(22):5747. doi:10.3390/rs14225747
3. **Cao Y**, Wu T, Kong L, Wang X, Zhang L, Ouyang Z. The drivers and spatial distribution of economic efficiency in China's cities. *Journal of Geographical Sciences*. 2022;32(8):1427-1450. doi:10.1007/s11442-022-2004-7
4. Zhang X, **Cao Y**, Fu X, Zhu T, Wu G. Green transformation of textile and garment

- industrial zones in China based on the “no waste” concept. *Acta Ecologica Sinica*. 2021;41(22):8860-8869. (in Chinese)
5. **Cao Y**, Kong L, Zhang L, Ouyang Z. The balance between economic development and ecosystem service value in the process of land urbanization: A case study of China’s land urbanization from 2000 to 2015. *Land Use Policy*. 2021;108:105536. doi:10.1016/j.landusepol.2021.105536
 6. **Cao Y**, Kong L, Zhang L, Ouyang Z. Spatial characteristics of ecological degradation and restoration in China from 2000 to 2015 using remote sensing. *Restoration Ecology*. 2020;28(6):1419-1430. doi:10.1111/rec.13226
 7. **Cao Y**. The Historical Evolution, Conservation, and Renewal Status Quo and Suggestions of the White Pagoda Temple Historical and Cultural Block in Xicheng District, Beijing. *Beijing Planning Review*. 2020;(3):131-138. (in Chinese)
 8. **Cao Y**, Shen A. Restoration and Reuse of Zhizhu Temple and the Inspiration to the Conservation of Architectural Heritage. *Heritage Architecture*. 2020;(1):111-118. doi:10.19673/j.cnki.ha.2020.01.012 (in Chinese)
 9. **Cao Y**. Introduction to Environmental Education in Joshua Tree National Park. *Geography Teaching*. 2014;(18):49-51. (in Chinese)
 10. **Cao Y**, Wei D, Wang M. The Course and Trend of International Geography Education Viewed from the American *Journal of Geography*. *Teaching Reference of Middle School Geography*. 2014;(15):66-67. (in Chinese)

PROJECTS AND FUNDING

2022-2023	<i>Research on the path of Beijing-Tianjin-Hebei Region coordinated development based on GDP-GEP coupling coordination.</i> China Postdoctoral Science Foundation (2022M723314), 80,000 RMB. (Host)
2022.05-2022.10	<i>Research report on the ecological environment of mega urban agglomerations in eastern China.</i> Series of Research Reports in the Field of Resources and Environment of the Chinese Academy of Sciences. (Participate)
2021-2022	<i>Qiqihar Ecological Product Value Accounting and Realization Mechanism Technical Consultation.</i> (Participate)
2021.05-2021.12	<i>Research on the design, path, and policy measures of ecological product value realization mechanism based on industrial chain, financial chain, and data chain collaboration.</i> Key research subject of National High-end Think Tanks. (Participate)

Curriculum Vitae

- 2018.1-2022.12 *Assessment of ecological carrying capacity and construction of ecological security pattern.*
Leading Project of Chinese Academy of Sciences (XDA19050504), 11,873,700 RMB. (Participate)
- 2016.07-2020.12 *Theory, technical method, and application of gross ecosystem product and ecological benefit accounting.*
National Key Research and Development Project of the Ministry of Science and Technology (2016YFC0503402), 2,000,000 RMB. (Participate)
- 2016.01-2020.12 *Coupling mechanism and regulation method of man and nature in complex urban ecosystem.*
Key Project of National Natural Science Foundation (71533005), 2,720,000 RMB. (Participate)
- 2017.01-2018.12 *Assessment of national ecological environment change (2010-2015).*
Major Special Project of the Ministry of Ecology and Environment and the Chinese Academy of Sciences (KFJ-STZ-ZDTP-010), 1,600,000 RMB. (Participate)

RESEARCH TRAINING

- 2022.11 *The 6th National Geospatial Big Data and Cloud Computing Frontier Conference and Centralized Learning.*
Beijing Huanyu Yiyao Technology Co., Ltd, Beijing
- 2021.03 *InVEST (Integrated Valuation of Ecosystem Services and Tradeoffs) Training.*
Natural Capital Project Team, Ecological Society of China & State Key Laboratory of Urban and Regional Ecology, Beijing
- 2020.01 *IUEMS (Intelligent Urban Ecosystem Management System) Training.*
State Key Laboratory of Urban and Regional Ecology, Beijing
- 2018.12 *Application Training of Mixed Effect Model and Structural Equation Model.*
Shuang Zhang & Yuxin Zhang, Beijing Upclouddata Technology, Beijing
- 2018.11 *Analysis of Ecological Data and Practical Application of R Language.*

Jiangshan Lai, Chuanyang Information Technology (Shanghai) Co., Ltd,
Beijing

2013.08 *Summer Course for Postgraduates of “Ecological Civilization and Environmental Management.”*

Peking University, Beijing

2012-2013 *Leadership Training for Global Community Sustainable Development.*

Stephanie B. Tansey, Beijing Normal University, Beijing

CONFERENCE

2022.08 International Congress of Ecology “Frontiers in Ecology: Science & Society,”
online.

Poster: *The balance between economic development and ecosystem service value in the process of land urbanization: A case study of China*

2022.08 The 21st China Ecology Conference, Guiyang

Presentation: *The drivers and spatial distribution of economic efficiency in China's cities*

2021.10 The 20th China Ecology Conference, Shanghai

Presentation: *The balance between economic development and ecosystem service value in the process of land urbanization: A case study of China's land urbanization from 2000 to 2015*

2019.12 The 13th Beijing Geography Postgraduate Academic Forum “Inheritance and Development: Geography Students Create a Future,” Beijing Union University, Beijing

Participation

2019.12 The Third Youth Forum on Human and Economic Geography

Participation

2019.01 The 9th National Symposium of Young Ecological Workers, Xiamen

Presentation: *Impact of urbanization on ecosystem pattern*

2018.12 The Second International Conference on Urban Ecology (SURE-China), Shanghai

Presentation: *Impact of urbanization on ecosystem pattern and services*

2017.12 The 9th International Conference on Ecosystem Services, Shenzhen

Presentation: *The impact of regional urbanization on ecosystem services*

2017.10 Beijing Graduate Ecology Forum, Beijing Forestry University (branch venue),
Beijing

Presentation: *The impact of regional urbanization on ecosystem services*

2017.08 The 12th International Congress of Ecology: Ecology and Civilization in a
Changing World, Beijing

Participation

PROFESSIONAL MEMBERSHIPS

Member, Ecological Society of China

Member, Geographical Society of China

Reviewer of the *Journal of Geography*