

Hao Xia

PHD CANDIDATE · UNIVERSITY OF COPENHAGEN

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Summary

I am an interdisciplinary conservation geographer trained in conservation, land system science, and ecological economics. In my research, I integrate methodologies from geography, remote sensing, spatial ecology, conservation planning, and econometrics to gain insights into coupled social-ecological systems. My PhD project focuses on integrating remote sensing observations, ecosystem service modeling, robust econometric causal inference, and spatial analysis to develop systematic conservation planning while also assessing conservation effectiveness.

Education

University of Copenhagen

PHD STUDENT GEOGRAPHY

• Advisor: Prof. Dr. Alexander Prishchepov

Copenhagen, Denmark

Dec. 2020 - Feb. 2024 (expected)

Zhejiang Gongshang University

MASTER, LAND ECONOMICS

• Honors thesis / Advisor: Prof. Dr. Cuizhen Li; Prof. Dr. Shaofeng Yuan

Hangzhou, China

Sept. 2017 - Jan. 2020

Zhejiang Gongshang University

BACHELOR, LAND RESOURCE MANAGEMENT

• Honors thesis / Advisor: Prof. Dr. Shaofeng Yuan

Hangzhou, China

Sept. 2013 - Jun. 2017

Publications

* corresponding author; * equal contribution Please check ORCID: <https://orcid.org/0000-0002-5852-9519>

PUBLISHED

Xia, H.* , Yuan, S., Prishchepov, A. V. 2023. *Spatial-temporal heterogeneity of ecosystem service interactions and their social-ecological drivers: Implications for spatial planning and management*. **Resources, Conservation and Recycling**, 189: 106767. DOI: <https://doi.org/10.1016/j.resconrec.2022.106767> (**ESI Highly cited paper**)

Xia, H.* , Li, H., Prishchepov, A. V. 2023. *Assessing forest conservation outcomes of a nature reserve in a subtropical forest ecosystem: effectiveness, spillover effects, and insights for spatial conservation prioritization*. **Biological Conservation**, 285: 110254. DOI: <https://doi.org/10.1016/j.biocon.2023.110254>

Xia, H., Li, C.* , Zhou, D., Zhang, Y., Xu, J. 2020. *Peasant households' land use decision-making analysis using social network analysis: A case of Tantou Village, China*. **Journal of Rural Studies**, 80: 452-468. DOI: [10.1016/j.jrurstud.2020.10.023](https://doi.org/10.1016/j.jrurstud.2020.10.023)

Yuan, S., Xia, H., Yang, L.* . 2021. *How changing grain size affects the land surface temperature pattern in rapidly urbanizing area: a case study of the central urban districts of Hangzhou City, China*. **Environmental Science and Pollution Research**, 28: 40060-40074. DOI: <https://doi.org/10.1007/s11356-020-08672-w>

Yang, L., Xia, H., Zhang, X., Yuan, S.* . 2018. *What matters for carbon emissions in regional sectors? A China study of extended STIRPAT model*. **Journal of Cleaner Production**, 180: 595-602. DOI: <https://doi.org/10.1016/j.jclepro.2018.01.116>

IN PREP & SUBMITTED

Xia, H. *, Geldmann, J., Müller, D., Sun, Z., Droste, N., Eklund, J., Sun, S., Yuan, S., Li, H., Prishchepov, A. V. *The multidimensional impact of protected areas for sustainable social-ecological outcomes in China*. [Ready to submission]

Xia, H.* , Li, H.* , Prishchepov, A. V. *Does ecological zoning spur human well-being? A quasi-natural experiment in China*. [In preparation]

Shi, X., Xia, H., Zhang, H., et al. *Scenario-based land-use simulation and integrated analysis of ecosystem service bundles in karst landscapes*. [Submitted to *Ecosystem Health and Sustainability*]

Professional Experience

- Oct. 2022 **Guest PhD Researcher**, Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Germany (Host: Prof. Dr. **Daniel Müller**)
- 2017 **Research Assistant**, Hangzhou International Urbanology Research Center, China; Responsible for **identification of ecological sources and ecological corridors** for regional ecological planning.
- 2017-2019 **Research/Teaching Assistant**, Zhejiang Gongshang University, China

Technical Skills and Language Proficiency

Geospatial/data analysis: R (advanced), Google Earth Engine, ArcGIS, QGIS, Zonation, Geoda, Fragstats, ENVI

Ecological/land-use modelling: Species distribution modelling, Ecosystem service modelling, Land use modelling

Econometric/network analysis: Causal inference, Spatial regression models, Social-ecological network analysis

Visualization: R, Adobe Illustration, Adobe Photoshop

Language proficiency: Chinese (native), English (advanced, fluent in writing and speaking)

Awards, Fellowships, & Grants

- 2023 **Workshop Travel Funding**, 4EU+ Alliance Charles University Minigrant
- 2020 **China Scholarship Council Doctoral Fellowship**, China Scholarship Council
- 2017 **Provincial Honors Graduate (Top 1%)**, Department of Education of Zhejiang Province
China Telecom Scholarship (Top 0.1%), All-China Students' Federation
- 2015-2017 **National Undergraduate Innovation Grant**, Ministry of Education of China

Presentations

Oral presentation. *Effectiveness of protected areas in conserving ecosystems in China.* **Annual Meeting of the Ecological Society of Germany, Austria, and Switzerland (GfÖ)**, Sept. 2023, Leipzig, Germany.

Poster presentation. *Spatial-temporal heterogeneity of ecosystem service interactions and their social-ecological drivers: Implications for spatial planning and management.* **European Congress of Conservation Biology**, Aug. 2022, Prague, Czech Republic.

Teaching Experience

- May 4, 2023 **Land Use in a Global Perspective (Bachelor)**, Guest Lecturer, *University of Copenhagen*
- Fall 2017 **Land Economics (Bachelor)**, Teaching Assistant, *Zhejiang Gongshang University*

Outreach & Professional Development

WORKSHOP/COURSES ATTENDED

- Jun. 2023 **Workshop**, 4EU+ international workshop on land abandonment and invasive species *Prague*
- Jul. 2023 **Summer School**, Global farmland abandonment: patterns, drivers and implications, 5 ECTS *Copenhagen*
- Aug. 2023 **Summer School**, WSL Blue-green biodiversity, 2.5 ECTS *Davos*

PEER REVIEW

Land Use Policy, International Journal of Environmental Research, Environment and Social Psychology

PROFESSIONAL MEMBERSHIPS

Society for Conservation Biology; Global Land Programme

Academic Referees

Dr. Alexander Prishchepov (PhD supervisor)

Member of the Scientific Steering Board of the Global Land Program

Associate Professor, Section for Geography, University of Copenhagen

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E-mail: alpr@ign.ku.dk

Dr. Jonas Geldmann (Research collaborator)

Co-chair of IUCN's World Commission on Protected Areas' Management Effectiveness Specialist Group

Assistant Professor, Globe Institute, University of Copenhagen

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E-mail: jgeldmann@sund.ku.dk