

Marcin Pawel Jarzebski



Ph.D. in Sustainability Science/Natural Environmental Sciences

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Profile:

Sustainability scientist specializing in socio-ecological systems, with a focus on demographic transitions, particularly aging and shrinking societies. My research integrates environmental governance, nature-based solutions, and the Food–Water–Environment nexus to address complex sustainability challenges.

Education:

• PhD in Sustainability Science

Graduate Program in Sustainability Science - Global Leadership Program, Graduate School of Frontier Sciences, The University of Tokyo (2015).

• MSc in Environmental Sciences

Faculty of Biology and Earth Sciences, Nicolaus Copernicus University, Poland (2009).

• Japanese Culture and Language (minor specialization)

Faculty of Languages, Nicolaus Copernicus University

Current Position:

• Project Associate Professor

Sustainable Society Design Center, Graduate School of Frontier Sciences, The University of Tokyo (May 2024 – present)

• Science Officer (Academic Service)

Future Earth Global Secretariat Hub Japan (April 2019 – present)

• Affiliated Member

Tokyo College, The University of Tokyo

Previous Positions:

• Research Fellow & Academic Associate

United Nations University Institute for the Advanced Study of Sustainability (UNU-IAS) (Oct 2022 – Apr 2024)

• Project Assistant Professor

Tokyo College, The University of Tokyo (Apr 2020 – Sep 2022)

• Project Researcher

Institute for Future Initiatives, The University of Tokyo (Apr 2019 – Mar 2020)

• Project Researcher

Integrated Research System for Sustainability Science (IR3S), The University of Tokyo (Jan 2016 – Mar 2019)

• Research Assistant

Environmental Monitoring Laboratory, National Institute of Geological Sciences, University of the Philippines (Oct 2010 – Sep 2011)

Selected Publications:

- Jarzebski et al. (2024). “Comparative Analysis of Water Sustainability Indices.” *Water* 16 (7)
- Jarzebski et al. (2023). “Biodiversity-based Solutions for Food Systems.” *Frontiers in Sustainable Food Systems Social Movements, Institutions and Governance* 7.
- Jarzebski et al. (2021). “Ageing and Population Decline: Implications for Sustainability in the Urban Century.” *npj Urban Sustainability* 1, 17
- Jarzebski et al. (2020). Food security impacts of industrial crop production in sub-Saharan Africa: a systematic review of the impact mechanisms. *Food Security* 12, 105–135.

Projects & Funding:

- PI: Japan Society for the Promotion of Science: Scientific Research (C) “Aging and Shrinking Population–Driven Transition of Nature Conservation” (2023–2025).
- Co-I: AI Risk and International Society (AIRISKIS) (2025-2026) (Tokyo College Funding)
- Co-I: The Driving Urban Transitions (DUT) & Japan Science and Technology Agency: “Resilient Urban NBI - Enhancing Urban Resilience to Disasters and Conflicts through Nature-Based Infrastructure” (2026-2028) (Collaboration with Stockholm University, Sweden, and University of Lodz, Poland).
- Co-I: Kubota Endowment “Sustainable Bio-Loop” (2024–2028).
- Co-I: Japan Society for the Promotion of Science: Scientific Research (A) “Urban Green Spaces and Cultural Ecosystem Services” (2022–2024).
- Researcher: Ministry of Environment, Japan: Water for Circular Societies (2021-2026).
- Researcher: Ministry of Environment, Japan: Climate change adaptation capacity development in Vietnam 2017-2020.
- Researcher: Ministry of Environment, Japan: Climate change adaptation capacity development in Indonesia. 2015-2018.
- Co-I: Japan Science and Technology Agency (JST) & Belmont Forum: Food Security Impacts of Industrial Crop Expansion in Sub-Saharan Africa (FICESSA), 2015-2018.

Teaching Experience:

- Planning and Design for Sustainability (UTokyo)
- Fundamentals of Sustainability Science (UTokyo)
- The Earth and Human Society – Interdisciplinary Perspectives (UTokyo)
- Frontier of Sustainability Science (UTokyo and UNU-IAS)
- Water Resource Management (UNU-IAS)
- MOOCs/edX: (1) Sustainability Science – A Key Concept for Future Design; (2) Transnational Studies - Japan and the World.

Steering Committee:

- International Conference on Sustainability Science (2017–present)
- Integrated History and Future of People on Earth Research Network (IHOPE) (2021–present)