

Summer Session 2026 - Global Sustainability Outlook and Practice in Japan



Professor Xuepeng Qian Ph.D. (Engineering)

Main research fields: urban and regional planning, environmental and social system analysis, industrial ecology, sustainability science

Research: Dr. Qian specializes in urban environmental planning. He has been working on urban and environmental issues such as urban development, transportation, resource sustainability, water, energy, and low carbon, through interdisciplinary and systems approaches. His research interests are focused on exploring the visions of urban and regional sustainability and how to plan and promote transformations for sustainable development.

Courses Taught: Industrial Ecology, Urban Sustainability, Seminar A/B/C/D



Professor Guangwei Huang Ph.D.

Main research fields: Lake and river water quality monitoring and modeling; sustainable use of wetland; urban flood risk management and long-term environmental policy impact assessment

Research: He deals with environmental problems in various approaches from field survey, numerical modeling and laboratory experiment. His research strategy is a good combination of "seeds" and "needs".

Courses Taught: Environmental Assessment, Environmental Planning, Global Environmental Outlook.



Professor Joho Joseph Puthenkalam Ph.D. (Economics)

Main Research Field: Development and Environment <Economic Development and Environmental Protection in Developing Countries>

Research: To study the coexistence of sustainable environment and economic development from the perspective of developing countries, premised on human dignity, human rights, rights of the poor, and true globalization.

Courses Taught: Economic Development and Environment, International Environment Document Study, Environment and Development of Developing Countries

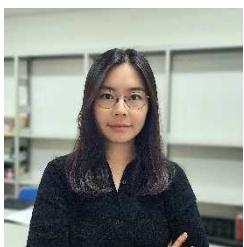


Professor Yoshinari Tanaka Ph.D. (Agriculture)

Main Research Field: Environmental Ecology, Ecological Risk Assessment

Research: Development of a comprehensive ecological risk assessment system of chemicals based on the tri-trophic ecosystem model

Courses Taught: Environmental Ecology, Ecological Risk Assessment of Pollutants



Professor Haemi Park Ph.D. (Engineering)

Main Research Field: Environmental Remote Sensing, Forest Ecosystem, Carbon Cycle, Soil Moisture
Research: Terrestrial ecosystem and its spatiotemporal change monitoring by satellite imagery. Assessment of human impact to environment and climate. Nature and human interactions in terms of climate change.

Courses Taught: Environmental Remote Sensing, Forest and Human Interactions



Professor Masachika Suzuki, Ph.D.

Main Research Fields: Corporate Environmental Strategy and Clean Energy Strategy
Research: Corporate environmental and energy strategy, Technology transfer and innovation in clean energy, Effectiveness of economic policy instruments, Environmental and social indicators for sustainable development, Strategic alliance for establishing a sustainable community in Asia
Courses taught: Business Strategies for Sustainability, International Environmental Treaties, Energy and Environmental Technology



Professor Anne McDonald

Main Research Fields: Environmental History, Integrative Environmental Policy, Global Environmental Policy

Research: With a mandate to link research to policy development and implementation, works closely with researchers involved in ecosystem assessments, local and national policy makers and UN conventions related to the environment. Working with the Secretariat of the Convention on Biological Diversity on marine related issues, at COP10 Nagoya 2010 co-established the Sustainable Ocean Initiative, an interface between science and policy to strengthen the marine biodiversity elements of the convention.

Courses taught: Environmental History, Integrative Environmental Policy, Global Environmental Policy



Professor Yoshinori Nakagawa Ph.D. (Engineering)

Main research areas: Participatory visioning; Future Design; Qualitative research

Research: methodology to support governments, the general public, university researchers, private companies, and others who design the world from a long-term perspective, while further enhancing their creativity and empathy for future generations.

Courses taught: STATISTICS FOR ENVIRONMENTAL STUDIES, STATISTICS FOR ENVIRONMENTAL STUDIES, RESEARCH METHODS FOR SOCIO-ECOLOGICAL STUDIES, Design FOR SUSTAINABLE SOCIETIES, Seminar A/B/C/D



Professor Koki Toyoda, Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology

Main research fields: Life Science, Plant nutrition and Soil Science

Research: Priming effects induced by C and N additions in relation to microbial biomass turnover in Japanese forest soils. Development and application of a DNA metabarcoding method for comprehensive analysis of soil nematode communities.

Course taught: Soil Science



Professor Edyta Dzieminska, Associate Professor, Faculty of Science and Technology

Main research areas: Supersonic combustion, rotating detonation engine

Research: Development of rotating detonation engine for space propulsions, detonation safety, mitigation of detonation

Courses Taught: Numerical Analysis, Advanced Fluid Engineering, Aircraft Design with Mechanics of Flight, Topics of Green Engineering, Basic Physics, Experiments of Exercise of Basic Physics, Engineering and Applied Sciences Lab, Introduction of Science and Technology, Science Technology and Environment.



Professor Nkweauseh Reginald Longfor, Assistant Professor

Main research areas: Sustainable Resource Management, Governance for Sustainable Development, Environmental System Design, Just & Sustainable Transition

Research: Dr. Longfor specializes in sustainable resource management, focusing on critical environmental challenges such as waste management, unsustainable production and consumption, energy crises, and air and water pollution, resource depletion, and climate change. His research emphasizes interdisciplinary and systems thinking approaches, with a particular focus on complex social environmental issues in the Global South and developing innovative strategies to enhance governance for sustainable development.

Courses Taught:

Governance for sustainable development, Environmental issues in the Global South, Renewable Energy Systems