

A list of faculty members who can accept ASCI students

Department	Research Field	Faculty member	Fields of Specialization	Acceptable research theme	Qualification
Earth and Environmental Sciences	Climate Science	UEMURA, Ritsu	Paleoclimatology, Geochemistry	Paleoclimate reconstruction for decadal to hundred-thousand years scale using ice core or speleothems. Isotope analysis of fluid inclusions water in carbonate.	Scientific writing skills, MS office, Linux
Earth and Environmental Sciences	Climate Science	SUDO, Kengo	Atmospheric Chemistry, Climate Modeling	1. Regional to global scale modelling of atmospheric chemistry and air pollution 2. Interaction between atmospheric pollutants/composition and climate 3. Interaction of land ecosystem, atmospheric chemistry (gases and aerosols), and climate 4. Emissions and global budgets of atmospheric methane: Estimate and future projection 5. Impacts of volcanic eruptions on climate and atmospheric chemistry in the past/future	MS Office, programming skills, Statistical analysis
Earth and Environmental Sciences	Climate Science	Michihiro Mochida	Atmospheric Aerosol Science, Atmospheric Chemistry	1. Evolution of aerosols in the atmosphere 2. Respiratory tract deposition of atmospheric aerosol particles	Statistical analysis
Earth and Environmental Sciences	Global Environmental Variation	NAKATSUKA, Takeshi	Dendrochronology, Dendroclimatology, Dendroecology	Analyses of climate variation using tree ring isotopic ratios	Scientific writing skills, MS Excel
Earth and Environmental Sciences	Global Environmental Variation	SAKAI, Akiko	Glaciology	Fluctuation of glacier mass balance in Mongolia	Scientific writing skills, Statistical analysis (Regression analysis, Statistical test etc.)
Earth and Environmental Sciences	Global Geochemistry	OSADA, Kazuo	Atmospheric environment, Aerosol sciences	Formation, transport, and deposition of atmospheric aerosol particles. Gaseous chemical species relating to particle formation and transformation. Development of measurement methods of gaseous and particulate substances.	Scientific writing skills, Statistical analysis
Earth and Environmental Sciences	Global Water Cycle	TAKAHASHI, Nobuhiro	Radar meteorology, cloud and precipitation science	1. Estimation of precipitation patterns using satellite images, 2. Analysis of precipitation using climate radar	Knowledge and skills for GrADS, HDF, NetCDF
Environmental Engineering and Architecture	Land, Infrastructure and Transportation Management	TOMITA, Takashi	Disaster Risk Reduction, Land and Infrastructure Design	Disaster management for sustainable development of a country	Scientific writing skills, GIS, Statistical analysis
Environmental Engineering and Architecture	Land, Infrastructure and Transportation Management	IRYO, Miho	Transportation Engineering, Transportation Planning	1. Traffic crash analysis 2. Intersection Design and Traffic signal control 3. Level of Service of Road Sections	Scientific writing skills, Published peer-reviewed papers, Programming skills (Fortran/C, Python, etc.), Unix
Environmental Engineering and Architecture	Material-Systems Science in Environment	SHIRAKAWA, Hiroaki	Environmental Economics	Land use change, Evaluation of environmental policy, Evaluation of climate change policy	Scientific writing skills, Japanese communication skills, Programming skills (Fortran/C, Python, etc.)
Social and Human Environment	Geography	IGA, Masaya	Human Geography, Geography of Food, Science and Technology Studies	Globalization of Food, Alternative Food Supply Chain, Actor Network and Space	QGIS
Social and Human Environment	Geography	YOKOYAMA, Satoshi	Geography, Cultural Ecology, Political Ecology, Southeast Asian Studies	1. Livelihood change 2. Regional natural resources management 3. The relationship between population dynamics and livelihood change 4. Land use change 5. The relationship between human activities and natural environment 6. Rural development and spatial change	Scientific writing skills, GIS, Statistics