





P12: GORNO-ALTAISK STATE UNIVERSITY

Gorno-Altaisk, Altai Republic, Russia

Departments concerned with SUNRAISE-related topics:

- Faculty of Natural Sciences and Geography
- Faculty of Economics and Law (Department of Economics, Tourism and Applied Informatics)

Contact person: Natalia Iurkova (dipgasu@mail.ru)

SUNRAISE-RELEVANT RESEARCH TOPICS

1.	Studying, conserving, and reviving tangible and intangible heritage of peoples of Altai and its neighbouring territories
2.	Influence of climate change, manifestation of adverse natural conditions, and human impact on socio-, bio-, and geosystems of Altai, including the study of (among others): - The dynamics of climate change and manifestations of adverse natural phenomena - The anthropogenic pressure on geosystems of Altai - The ecological condition in the region - The hydrological regime and water quality of mountain rivers - The response of geotechnical systems to influences of various origin
3.	Sustainable wildlife management and biodiversity conservation
4.	Assisting in the social and economic prosperity of the Greater Altai region through
	sustainable development of agriculture, alternative energy, and ecological tourism
5.	Assisting in the development of ecological education in the Altai Republic

KEY PERSONALITIES, POTENTIAL MASTER'S AND DOCTORAL SUPERVISORS

- ➤ Prof. Dr. Olga Zhuravleva Research interests: Hydrology; Hydrological security; Sustainable development of mountain territories; Ecosystem services; EIA
- Prof. Dr. Mariia Sukhova Research interests: Climatology; Climate change; Sustainable development of mountain territories; Ecosystem services; Environmental management
- Prof. Dr. Andrei Glotko Research interests: Regional economics; Sustainable regional development; Green economy; Development of agro-industrial complexes





Prof. Dr. Petr Malkov – Research interests: Zoogeography; Ecology; Microevolution of butterflies; Ecological monitoring; Biostatistics

CURRENT AND PAST PROJECTS

Project 1: "Assessment of the	Funded by: Grant of the	Project type:
bioclimatic living conditions of the	President of the Russian	research
population of mountain territories	Federation	
taking into account their landscape	Konwards, Living conditions, A	Itai Cayan
structure (based on the example of the	Keywords: Living conditions; A	•
Altai-Sayan mountain country)"	mountain country; Landscape	structure
Project 2: "Approbation of	Funded by: Ministry of	Project type:
micropropagation technology and its	Agriculture of the Altai	research
implementation into the crop	Republic, Russia	
production in the Altai Republic"	Keywords: Micropropagation t	echnology; Crop
	production	
Project 3: "Cadastre of forage plants of	Funded by: Ministry of	Project type:
the Altai Republic"	Agriculture of the Altai	research
	Republic, Russia	
	Keywords: Forage plants; Forage	ge lands
Project 4: "Agricultural and economic	Funded by: Ministry of	Project type:
efficiency of resource-saving soil	Agriculture of the Altai	research
cultivation technologies in the system	Republic, Russia	
of forage crop rotations in the mid-	Keywords: Soil cultivation tech	nologies; Crop
mountain zone of the Altai Republic"	rotation	
Project 5: "The development of the	Funded by: Ministry of	Project type:
concept of the tourist and recreational	Natural Resources, Ecology	research
cluster 'Karakol Lakes all-season ski	and Tourism of the Altai	
complex' in the Altai Republic"	Republic, Russia	
	Keywords: Tourism developme	ent; Tourist and
	recreational cluster	
Droinet C. "The development of the	Funded by: Ministry of	Project type:
Project 6: "The development of the	Natural Resources, Ecology	research
concept of the development of agro-	and Tourism of the Altai	research
industrial complex of the Altai Republic for the period till 2028"	Republic, Russia	
Tot the period till 2020	Keywords: Agro-industrial com	nlex: Sustainable
	development	pick, Justainable
	acvelopinent	





Project 7: "The development of the concept of the development of forest industry in the Altai Republic 2018-2027"	Funded by: Ministry of Natural Resources, Ecology and Tourism of the Altai Republic, Russia Keywords: Forest industry; Tim	Project type: research ber processing
Project 8: "Analysis and economic assessment of the current state of production and processing of agricultural products in the Altai Republic and their sales market to determine the types and production volume of such products as well as their processing technology potential for implementation"	Funded by: Ministry of Agriculture of the Altai Republic, Russia Keywords: Agricultural product technology	Project type: research ts; Processing
Project 9: "The Red Data Book of the Altai Republic (plants and animals)"	Funded by: Ministry of Natural Resources, Ecology and Tourism of the Altai Republic, Russia Keywords: Rare and endangere Biodiversity conservation; Con	
Project 10: "Biological potential, state and rational use of plants of the Fabaceae family on natural and seeded feeding grounds of Gorny Altai"	Funded by: Russian Foundation for Basic Research Keywords: Biological potential Rational land use	Project type: research ; Feeding grounds;
Project 11: "Development of methodological approaches to a comprehensive assessment of the ecological state of recreational landscapes of the Altai Republic" Project 12: "Assessment of the impact of recreational activities on natural	Funded by: Russian Foundation for Basic Research Keywords: Recreational landsc indicators Funded by: Russian Foundation for Basic	Project type: research apes; Ecological Project type: research
f recreational activities on natural bjects of the Altai Republic"	Research Keywords: Recreational activities; Human impact; Environmental protection	
Project 13: "Assessment of the ecological and biogeochemical status of the drainage basin of Lake Teletskoye under conditions of climate change and increasing anthropogenic impact"	Funded by: Russian Foundation for Basic Research Keywords: Climate change; Hu Ecological and biogeochemical	*

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Project 14: "Development of mechanisms for the implementation of the 'green economy' model at the regional level"	Funded by: Russian Foundation for Basic Research Keywords: Green economy; Sudevelopment	Project type: research stainable
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Project 15: "Analysis of the ecological, social and economic significance of traditional crafts in the life of the population of the Altai Republic"	Funded by: Russian Foundation for Basic Research Keywords: Indigenous culture;	Project type: research Traditional crafts
Project 16: "The concept of 'altai- kizhi'/ 'the Altaian' in the folklore and literature of Gorny Altai in the context of the national identity"	Funded by: Russian Foundation for Basic Research Keywords: National identity; In Intangible heritage	Project type: research ndigenous cultures;
Project 17: "Hydroecological safety as a tool for sustainable life support of mountain regions under conditions of climate change"	Funded by: State Order of the Ministry of Science and Higher Education of the Russian Federation Keywords: Sustainable developments of the Hydrological and ecological ecological and ecological ecol	
Project 18: "Study of the impact of climatic fluctuations on mountain ecosystems and population. Identification of ecosystem services in	Funded by: State Order of the Ministry of Science and Higher Education of the Russian Federation	Project type: research
Altai"	Keywords: Climate change; Mountain ecosystems; Ecosystem services	
Project 19: "The use of indicators for the assessment of ecological attractiveness of the tourist zone in the vicinity of the village of Chemal"	Funded by: Contract-based research (in Russia)	Project type: research, capacity building for external stakeholders
	Keywords: Ecological attractive tourism development	eness; Sustainable
	5 . 1. 11 . 2	D
Project 20: "Assessment of the economic efficiency of the processing of wild-growing plants in the system of consumer cooperation"	research (in Russia)	Project type: research, capacity building for external stakeholders
	Keywords: Economic efficiency products; Processing	r; Non-timber

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Project 21: "Study of rare and medicinal plants of the Altai Republic with the aim of their reintroduction in 2019-2021"	Funded by: Contract-based research (in Russia) Keywords: Rare and medicinal Introduction and reintroduction	•
Project 22: "Technology of processing of wild-growing plants"	Funded by: Contract-based research (in Russia) Keywords: Processing technologiants	Project type: research, capacity building for external stakeholders ogy; Wild-growing
Project 23: "Ecological forum '100 Years of the Reserve System in Russia'"	Funded by: Contract-based event (in Russia) Keywords: Environmental prot areas; Biodiversity conservation awareness	
Project 24: "Geoecological state of water bodies in mountain countries under the conditions of recreational use of the territory (based on the example of Gorny Altai)"	Funded by: Contract-based research (in Russia) Keywords: Human impact; Rec Geoecological state	Project type: research, capacity building for external stakeholders reation;

CURRENT AND RECENT PhD THESES

- Olesia Orlova "Sustainable Regional Economic Development Based on the Transition to the Model of Green Economy (Based on the Example of the Altai Republic)" (2017 – ongoing)
- Svetlana Kazantseva "Spatial and Ecological Structure of Mayfly (Ephemeroptera) Population in Water Bodies of Altai Mountains" (2020 – ongoing)

RESEARCH AMBITIONS IN RELATION TO SUNRAISE

1. Improvement of the university's system of training specialists in accordance with the demands of local employers and other stakeholders. Among others, this concerns the training in the fields of:

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- Environmental management
- Biodiversity conservation
- Preservation and revival of traditional knowledge and cultures
- Sustainable development of mountain areas

ENABLERS AND BARRIERS ENCOUNTERED FOR RESEARCH DEVELOPMENT

Enablers ➤ Only high education institution and leading scientific centre in the Altai Republic ➤ Location of the institution in a multicultural and geographically diverse area ➤ Participation in the SUNRAISE project Barriers ➤ Shortage of financial resources ➤ Shortage of human resources ➤ Shortage of interested students ➤ Unforeseen risks, such as a pandemic

NATIONAL RESEARCH/ POLICY SUPPORTING RESEARCH DEVELOPMENT

1. Decree of the President of the Russian Federation of July 21, 2020 No. 474

CAPABILITY IMPROVEMENT TARGETED TO FULFIL THE ASPIRED RESEARCH GOALS

Improvements are desired in:

- Equipment/ software
- Access to international databases
- Cooperation with Russian and foreign members of the SUNRAISE consortium

ENABLERS AND BARRIERS ENCOUNTERED FOR RESEARCH TRAINING

Enablers	Barriers	
Highly experienced and enthusiastic professionals	Shortage of regular allocation of state-funded places in PhD school	
 Opportunities for interdisciplinary research 	Very low financial support for PhD students	

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- Advantageous location of the institution
- Good partnership with local authorities, protected areas, and local communities
- Absence of the Dissertation committee in the institution
- Absence or very limited funding for field trips