



КАЗАНСКИЙ (ПРИВОЛЖСКИЙ) ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ

Kazan Federal University

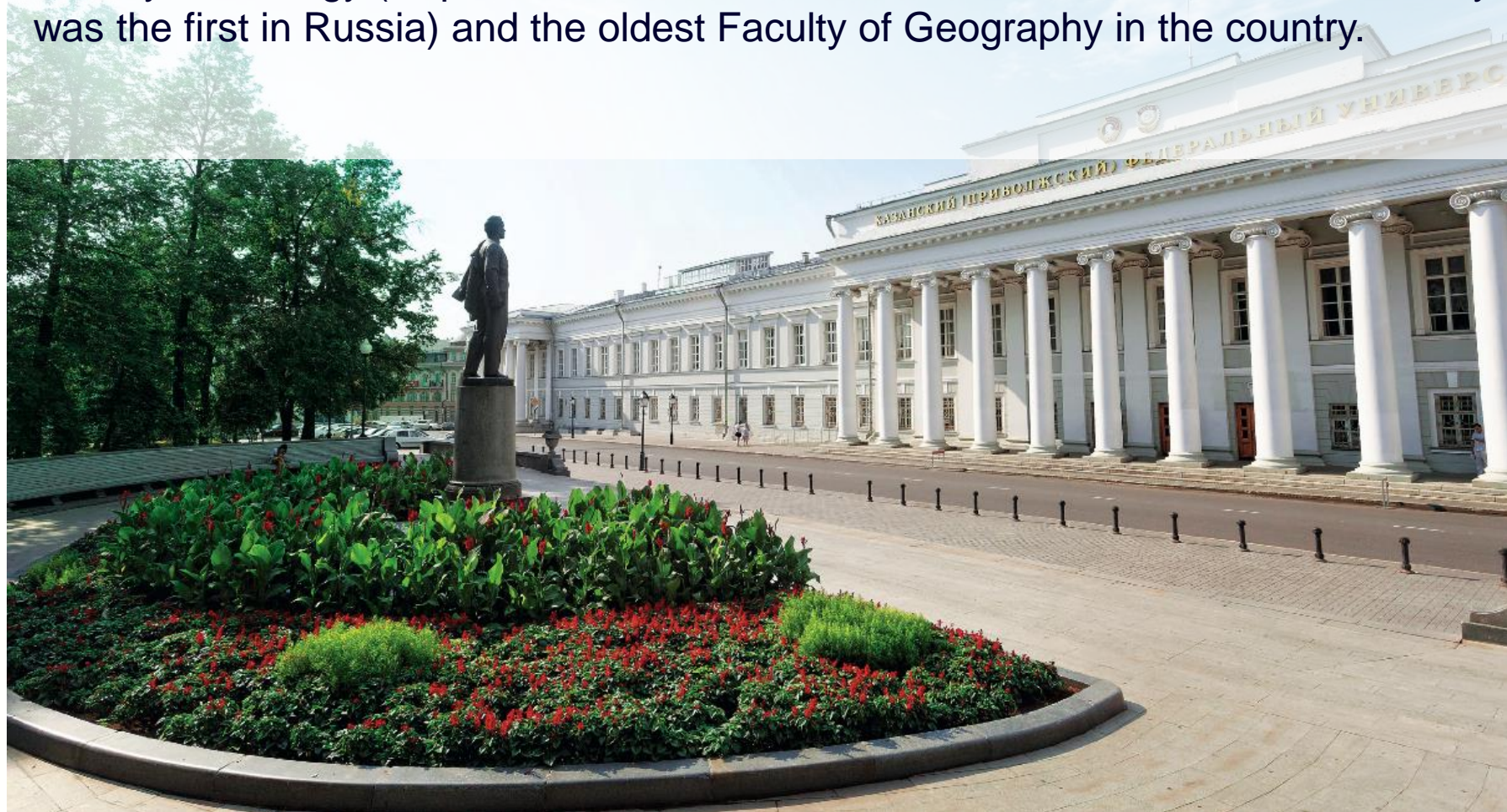
Institute of Environmental Sciences





Institute of Environmental Sciences

Institute of Environmental Sciences was established in 2014 on the basis of the Institute of Ecology and geography. In its turn the basis of the last one was Faculty of Ecology (Department of Nature Conservation of Kazan State University was the first in Russia) and the oldest Faculty of Geography in the country.





Institute of Environmental Sciences

There have been established training and research laboratories with world-class facilities. Since 1812 the Meteorological Observatory has been in action. The Institute has three stations for field practice.

The highly-qualified scientific and pedagogical staff consists of **17** Professors and **41** Ph.D of Science. The total number of employees is over **100** people.

- There are over **700** students doing all modes of study.
- Training is conducted **4** Bachelor and **5** Masters Programs.
- The Doctoral Dissertation Council deals with **3** specialties.
- The Postgraduate Courses deal with **4** specialties.





Institute of Environmental Sciences

Bachelor programs:

- Ecology and Natural Management
- Hydrometeorology
- Land Development and Land Registry
- Soil Science

Master programs:

- System Ecology and Simulation
- Environmental Safety and Environmental Protection Management
- Environment and Agro-Food Security
- Hydrometeorology
- Land Development and Land Registry





Institute of Environmental Sciences

Division of Ecology

Department of General Ecology

Department of Applied Ecology

Department of Ecological Systems Modeling

Division of Environmental Management

Department of Landscape Ecology

Department of Meteorology, Climatology and Atmospheric Environment

Department of Soil Science

Centre for supporting of industries in environmental area

Small innovative enterprises





Environmental and microbial biotechnologies

- Bioremediation of oily wastes and oily polluted soils by means of plants and microorganisms;
- Development of technologies for the treatment of municipal solid waste and sewage sludge;
- Soil restoration using composts from organic waste;
- Biogas production from organic wastes;
- Evaluation of risk of the waste and polluted soil by means of the tests with bacteria, plants, crustacean and protozoa;
- Evaluation of suppressiveness of composts and its application against phytopathogens;
- Antibiotics in environment



Full Professor
Svetlana Selivanovskaya



Associate Professor
Polina Galickaya



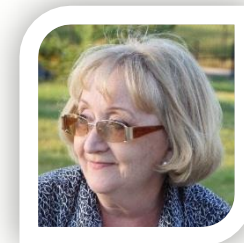


Molecular biology for environmental sciences

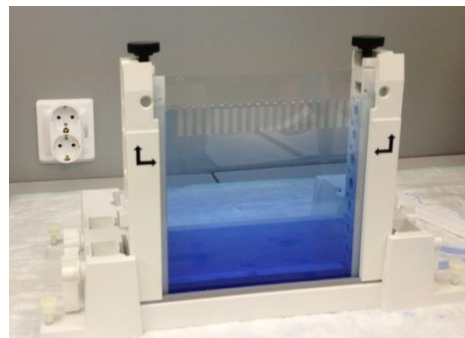
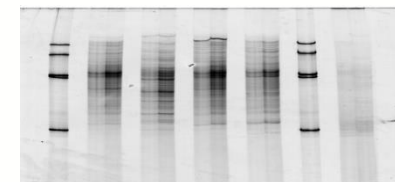
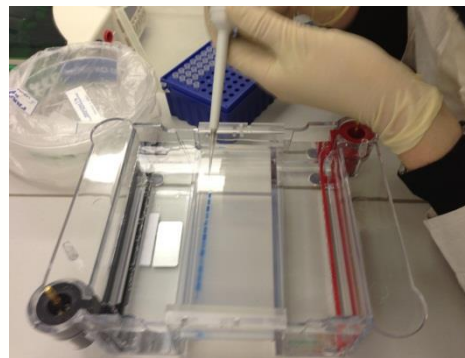
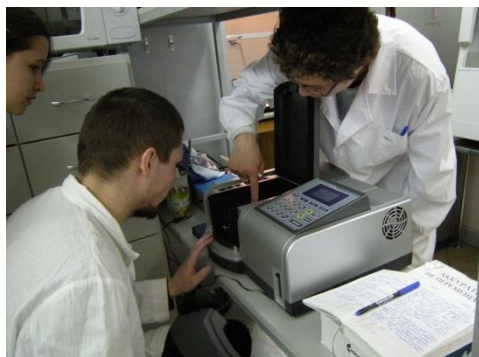
- Estimation of microbial community structure of soils and wastes by means of molecular biological methods;
- Use of molecular biology methods for estimation of biotechnology efficiency.



Associate Professor
Polina Galickaya



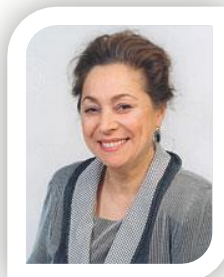
Full Professor
Svetlana Selivanovskaya





Aquatic ecology and toxicology

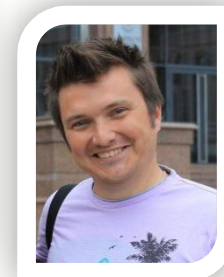
- Aquatic toxicology: development and application of methods to assess the effects of individual contaminants, water quality, sediments;
- Bioaccumulation of water contaminants.



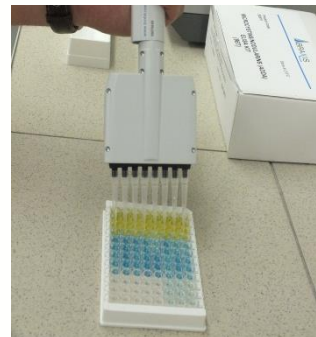
Full Professor
Venera Latypova



Full Professor
Nadezhda Stepanova



Associate Professor
Oleg Nikitin



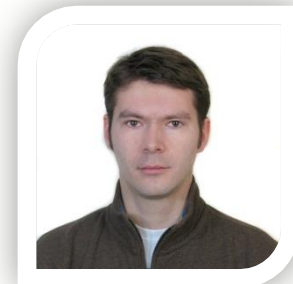


Ecological approaches to biodiversity conservation

- Population and ecosystem structure, functioning and dynamics at anthropogenic landscapes;
- Biomorphological and ecological approaches at spatial pattern investigation of different life forms plant populations;
- Species composition probabilistic models of vegetation and map modeling of potential habitats for rare plant species;
- Dendroclimatology, modeling prognosis of retrospective and potential regional forest vegetation;
- Expert estimation systems for biological recourses using and restoration at regional level under influence of global warming.



Full Professor
Tatyana Rogova



Associate Professor
Denis Tishin

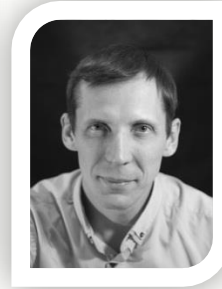


Spatial analysis and modeling in ecology

- GIS, remote sensing, spatial analysis and modeling in ecology;
- Landscape ecological analysis of the geospace.



Full Professor
Oleg Yermolaev



Associate Professor
Kirill Malcev



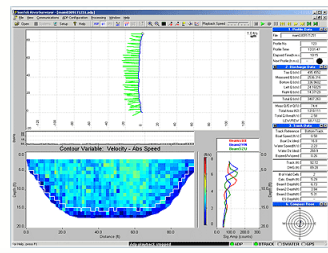
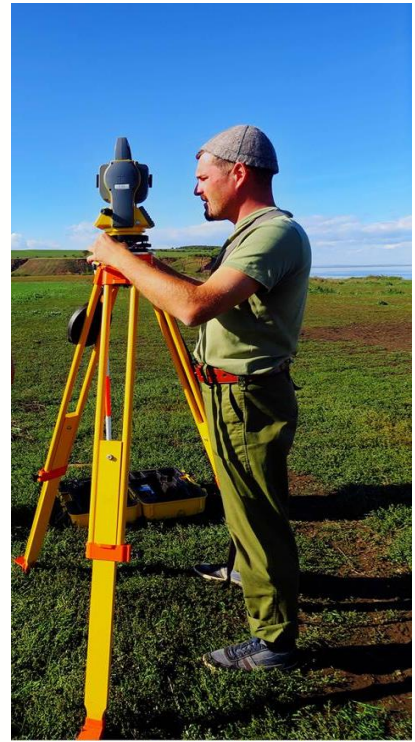
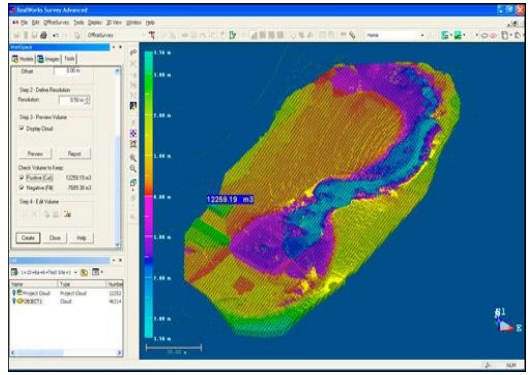
Full Professor
Anatoly Saveliev



Associate Professor
Svetlana Mukharamova



Associate Professor
Nelli Chizhikova





Advanced statistical methods and models in ecology

- development and application of advanced statistical methods and models for the analyses of spatial and temporal data in ecology (structure of vegetation, landscape analysis and zoning)



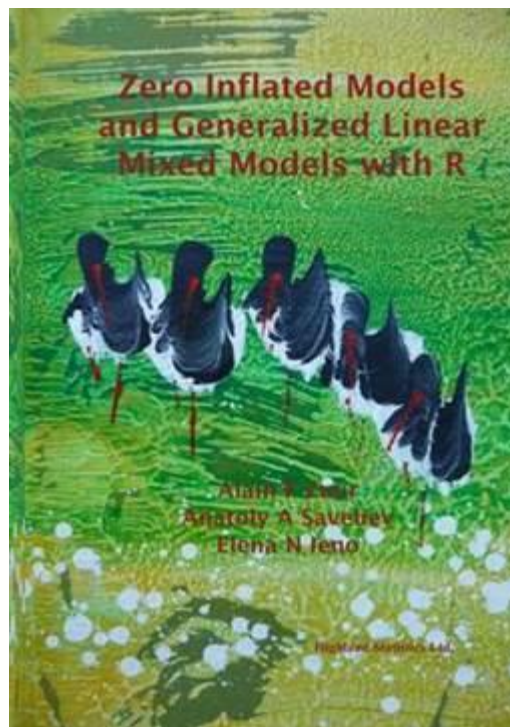
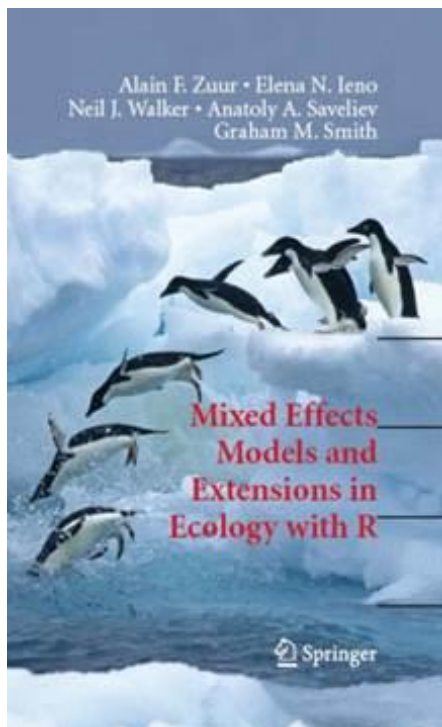
Full Professor
Anatoly Saveliev



Associate Professor
Svetlana Mukharamova



Associate Professor
Nelli Chizhikova





Transport processes in environment

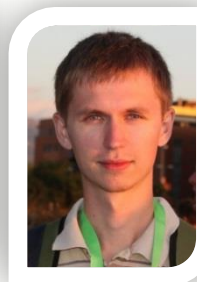
- Aerosol studies;
- Air, water and groundwater pollution modeling.



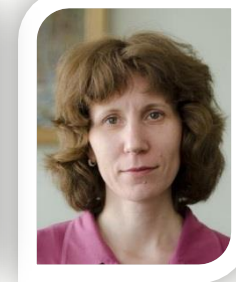
Full Professor
Shamil Zaripov



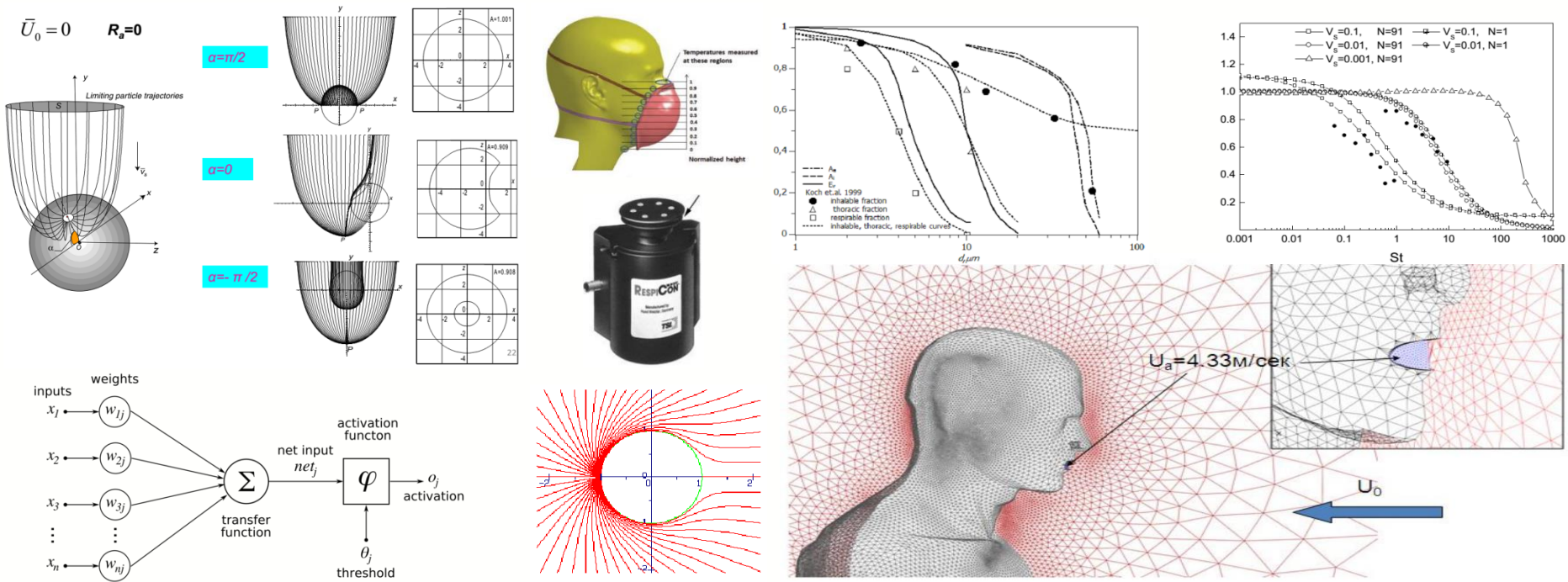
Full Professor
Eduard Skvortsov



Associate Professor
Artur Gilfanov



Associate Professor
Ekaterina Kosterina





Global and regional climate change

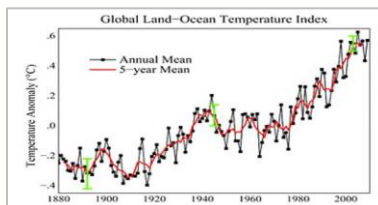
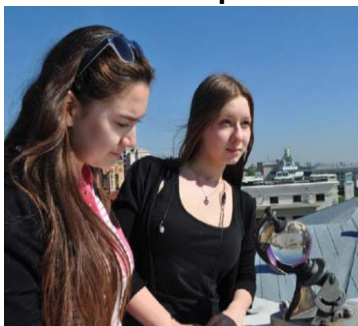
- Global and regional changes in modern climate;
- Climatic conditions and resources of the subjects of the Russia;
- Circulation and energy of the atmosphere.



Full Professor
Jurij Perevedencev



Full Professor
Alexey Eliseev





THANK YOU FOR YOUR ATTENTION!

