

## CURRICULUM VITAE

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**GELFAN Alexander**  
*Ph.D., Dr. Sc. in Phys. & Math,*

### **Contacts:**

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of Sciences  
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### **Education:**

1977-1982 Studies in Moscow State University, Dep. of Hydrology, Faculty of Geography,  
Moscow, Russia  
1982 M.Sc. (Hydrology), Moscow State University, Faculty of Geography, Moscow, Russia  
1989 Ph.D. Geography (Hydrology and Water Resources), Water Problems Institute of the  
Russian Academy of Sciences (RAS), Dissertation: *Dynamic-stochastic models of river  
runoff generation*, Advisor: Prof. Lev Kuchment

### **Degree**

2019 Corresponding Member of the Russian Academy of Sciences  
2007 Doctor of Science (Habilitation), Physics and Mathematics (Hydrology and Water  
Resources), Water Problems Institute of RAS, Moscow, Russia

### **Professional Experience:**

2018- to date, Director, Water Problems Institute of RAS  
2016-to date, Professor of Hydrology, Moscow State University, Dep. of Hydrology, Faculty  
of Geography  
2011- to date, Head of Watershed Hydrology Lab., Water Problems Institute of RAS  
1995-1996, Visiting Scientist in the Marquette University (Milwaukee, WI, USA)  
1985-2018, Young to Senior Scientist to Deputy Director, Water Problems Institute of RAS  
1982-1985, Post-graduate student, Water Problems Institute of RAS

### **Areas of Expertise:**

Hydrological cycle processes  
Cold region hydrology  
Hydrological modeling  
Climate impact assessment  
Flood risk assessment  
Ensemble hydrological forecasts

### **Awards and Scholarships**

- 2019 Honorary Worker in Science and High Technologies, Ministry of Science and Higher Education of Russian Federation
- 1995 One-year scholarship from the Marquette University (Milwaukee, WI, USA) in the framework of the project “Development and Applications of a Deterministic-Stochastic Model of Urban Runoff and Water Quality”

### **Participation in Professional Associations**

- 2007-2018 – International Commission on Snow and Ice Hydrology (ICSIH) of the International Association of Hydrological Sciences (IAHS), Vice-President (elected in 2007), Secretary (elected in 2016)
- 2013 – to date – Chair of the IAHS “Panta Rhei” Working Group on Physics of Hydrological Predictability

### **Professional Activities:**

- 2017-to date Leading Author of the IPCC WGII 6th Assessment Report
- 2015 – to date – Bureau member of the National Geophysical Committee of the International Union of Geodesy and Geophysics (IUGG)
- 2013- to date – Member of the Scientific Council on Climate of the Russian Academy of Sciences
- 2010- to date – Member of the National Committee on System Analysis of the Russian Academy of Sciences
- 2009- to date – Vice-Chairman of the National Council on Water Resources of the Russian Academy of Sciences

### **International and Russian Research Projects Management (since 2015)**

- 2016 – to date Water-Regional sector in the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP) (Group Leader)
- 2019-to date Project “Research and modeling of possible scenarios for the formation of extreme paleohydrological phenomena in the Caspian basin after the Last Glacial Maximum” Russian Science Foundation (Coordinator and Principal Investigator)
- 2019-2020 Project “Developing recommendations for flood risk management and protection of the Tulun city within the Iya River Basin” Ministry of Natural Resources and Ecology of the Irkutsk Region (Group Leader)
- 2015-2019 Project “Modeling physical mechanisms of sensitivity of hydrological extremes to climate change” Russian Science Foundation (Coordinator and Principal Investigator)
- 2015-2017 Project “Uncertainty of large-basin hydrological response to climate change: research on the basis of ensemble experiments with hydrological and climate models”, Russian Foundation for Basic Research (Coordinator and Principal Investigator)

### **Editorial Activities in International Journals**

- 2004- 2019 – Topical Editor, Hydrology and Earth System Sciences (HESS).
- 2009- to date – Topical Editor, Earth System Science Data (ESSD)
- 2009- to date – Editor, Water Resources (in Russ.)
- 2017-to date – Editor, Russian J. Earth Sciences

### **Publications (Web of Science Core Collection)**

<https://publons.com/researcher/2290656/alexander-gelfan/>