



Anatoly Tsyplenkov

JUNIOR RESEARCH FELLOW

Faculty of Geography, Lomonosov Moscow State University

✉ atsyplenkov@geogr.msu.ru | 🌐 www.atsyplenkov.ru | ☎ 0000-0003-4144-8402 | 📧 lcwW-WAAAAAJ&hl

📷 Anatolii_Tsyplenkov | 📧 atsyplenkov | 🐦 atsyplen

Academic Career

Lomonosov Moscow State University

JUNIOR RESEARCHER

Faculty of Geography

Jan. 2020 – ...

Lomonosov Moscow State University

PH.D. IN GEOGRAPHIC SCIENCES

Faculty of Geography

2015 – 2019

- Title thesis: Suspended sediment load formation in small mountain river basins: general patterns and regional features (defended: 19 Dec 2019)
- Supervisor: Prof. D.Sc. Valentin Golosov

Lomonosov Moscow State University

SPECIALIST IN HYDROLOGY (MASTER EQUIVALENT)

Faculty of Geography

2010-2015

- Title thesis: Conditions of sediment load formation in small river basins of different mountain regions (defended: 19 May 2015)
- Supervisor: Prof. D.Sc. Valentin Golosov

Main research interests and expertise

- Mountain fluvial geomorphology
- Sediment budget and dynamics
- Soil erosion modeling
- Statistical analyses on heterogeneous datasets and quantifying uncertainties based on Monte Carlo simulation techniques
- Designing and maintaining large databases of measurements on various geomorphic processes
- Quantifying and understanding geomorphic processes at catchment and regional scale
- Designing and conducting fieldwork campaigns (including in Russia (Caucasus, Kamchatka, Chukotka, etc.), Sweden, Italy)

Awards & Distinctions


2022	Continental Erosion Commission of the International Association of Hydrological Sciences (IAHS-ICCE) Early Career Committee Representative 2022-2025	IAHS
2021	Winner of the Lomonosov Moscow State University (LMSU) scholarships for young scientists who have achieved significant results in research activities	LMSU
2020	Erasmus+ Staff Mobility	European Commission
2018	Erasmus+ International Credit Mobility scholarship	European Commission

Publication statistics

- Co-author of 40 peer-reviewed articles, book chapters, and proceedings
- Around 30 contributions to conferences (excluding full proceedings)
- Around 100 citations over the past 5 years, current h-index: 5
- Info and an overview: [Google Scholar](#)

Other information

- Completed the basic educational programme of postgraduate academic and pedagogical training in Geo-sciences at *Lomonosov Moscow State University* in 2019 (awarded the qualification of Researcher.Instructor-researcher)

- Additional training at *Bioinformatics Institute* (courses *Introduction to Statistics I, II, III* and *Data Analysis in R*) in 2018-2019
- Teaching experience with various courses at BSc level:
 - Fundamentals of Hydrology (Lomonosov Moscow State University, BSc-level, teaching assistant)
 - GIS in Hydrology (Lomonosov Moscow State University, BSc-level, teaching assistant)
- Co-Supervision of 4 BSc, MSc theses since 2018
- Peer reviewer for various international scientific journals (including *Journal of Soils and Sediments*; *Earth Surface Dynamics*; *Ecohydrology & Hydrobiology* and etc.)
- Co-author and maintainer of the open Russian-English hydrological dictionary hydrowiki.org
- Author and creator of the `loadflux` R-package - a set of tools for comprehensive analysis of the intra-event sediment dynamics 
- Hobbies and interests: open source, R programming and coding enthusiast, mountain hiker, long-distance runner (best 1:40 for 21.1 km; 4:08 for 42.2 km), mystery stories

Skills

LANGUAGES

Skill	Russian	English
Reading	Native	C2
Writing	Native	C2
Listening	Native	C1
Speaking	Native	C1

Common European Framework of Reference for Languages: A1/A2: Basic User. B1/B2: Independent User. C1/C2: Proficient User

✓ DEFINING ATTRIBUTES

advanced analytic skills, strategic thinking, resourceful team player, public speaking, organizational & communication skills

TECH SKILLS

Coding Languages

R – Julia – MATLAB





Software

QGIS – ArcGIS – SAGA – Inkscape –
Blender – Mendeley/Zotero – Agisoft
Metashape

Other

Git – Markdown – LaTeX – Arduino

ORGANIZING COMMITTEE SECRETARY

Nov 2021	School for Young Scientists «Multi-Scales and -Processes Integrated Modelling, Observations and Assessment for Environmental Applications» 	Online Event
Aug 2021	International Conference on the Status and Future of the World's Large Rivers 	Moscow, Russia
Nov 2020	School for Young Scientists «Pollutant and sediment mobility in river systems: monitoring studies to identify human impacts» 	Online Event
Aug 2018	The Second International Young Scientists Forum on Soil and Water Conservation and ICCE symposium 2018 «Climate Change Impacts on Sediment Dynamics: Measurement, Modeling and Management» 	Moscow, Russia

Presentations

Aug 2021	Flow regime and bank erosion of the Anadyr River, Chukotka	WLR, Moscow, Russia
Apr 2021	How does the suspended sediment yield change in the North Caucasus during the Anthropocene?	vEGU 2021, online
Apr 2020	Application of geomorphological mapping and fingerprinting to identify the different suspended sediment sources of the glaciated Djankuat catchment, Caucasus mountains	vEGU 2020, online

Publications (selection)

PENDING

1. Tsyplenkov, A., & Chalov, S. (2022). Loadflux: An r package to study intra-event suspended sediment dynamics. *Computers & Geosciences*, Submitted.

PUBLISHED

1. Belyakova, P., Moreydo, V., Tsyplenkov, A., Amerbaev, A., Grechishnikova, D., Kurochkina, L., Filippov, V., & Makeev, M. (2022). Forecasting water levels in krasnodar krai rivers with the use of machine learning. *Water Resources*, 49(1), 10–22. <https://doi.org/10.1134/S0097807822010043>
2. Tsyplenkov, A., Vanmaercke, M., Collins, A. L., Kharchenko, S., & Golosov, V. (2021). Elucidating suspended sediment dynamics in a glacierized catchment after an exceptional erosion event: The Djankuat catchment, Caucasus Mountains, Russia. *CATENA*, 203, 105285. <https://doi.org/10.1016/j.catena.2021.105285>
3. Ivanov, M. M., Konoplev, A. V., Walling, D. E., Konstantinov, E. A., Gurinov, A. L., Ivanova, N. N., Kuzmenkova, N. V., Tsyplenkov, A. S., Ivanov, M. A., & Golosov, V. N. (2021). Using reservoir sediment deposits to determine the longer-term fate of chernobyl-derived ¹³⁷Cs fallout in the fluvial system. *Environmental Pollution*, 274, 116588. <https://doi.org/10.1016/j.envpol.2021.116588>
4. Golosov, V., & Tsyplenkov, A. (2021). Factors Controlling Contemporary Suspended Sediment Yield in the Caucasus Region. *Water*, 13(22), 3173. <https://doi.org/10.3390/w13223173>
5. Tsyplenkov, A. S., Golosov, V. N., & Belyakova, P. A. (2021). How did the suspended sediment load change in the North Caucasus during the Anthropocene? *Hydrological Processes*, 35(10), 1–20. <https://doi.org/10.1002/hyp.14403>
6. Golosov, V. N., Ivanov, M. M., Tsyplenkov, A. S., Ivanov, M. A., Konoplev, A. V., Wakiyama, Y., Konstantinov, E. A., & Ivanova, N. N. (2021). Erosion as a Factor of Transformation of Soil Radioactive Contamination in the Basin of the Shchekino Reservoir (Tula Region). *Eurasian Soil Science*, 54(2), 291–303. <https://doi.org/10.1134/S106422932102006X>
7. Tsyplenkov, A., Vanmaercke, M., Golosov, V., & Chalov, S. (2020). Suspended sediment budget and intra-event sediment dynamics of a small glaciated mountainous catchment in the Northern Caucasus. *Journal of Soils and Sediments*. <https://doi.org/10.1007/s11368-020-02633-z>
8. Chalov, S. R., Tsyplenkov, A. S., Pietron, J., Chalova, A. S., Shkolnyi, D. I., Jarsjo, J., & Maerker, M. (2017). Sediment transport in headwaters of a volcanic catchment Kamchatka Peninsula case study. *Frontiers of Earth Science*, 11(3), 565–578. <https://doi.org/10.1007/s11707-016-0632-x>
9. Chalov, S. R., Golosov, V. N., Tsyplenkov, A. S., Theuring, Ph., Zakerinejad, R., Maerker, M., & Samokhin, M. (2017). A toolbox for sediment budget research in small catchments. *GEOGRAPHY, ENVIRONMENT, SUSTAINABILITY*, 10(4), 43–68. <https://doi.org/10.24057/2071-9388-2017-10-4-43-68>

References

- **Prof. D.Sc. Valentin Golosov**, Institute of Geography, Russian Academy of Science, gollossov@gmail.com
- **Prof. Dr. Matthias Vanmaercke**, Division of Geography and Tourism, KU Leuven, matthias.vanmaercke@kuleuven.be
- **D.Sc. Sergey Chalov**, Faculty of Geography, Lomonosov Moscow State University, hydroserg@mail.ru