



# Anatoly Tsyplenkov

JUNIOR RESEARCH FELLOW

Faculty of Geography, Lomonosov Moscow State University

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## Academic Career

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### 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

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- 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)

## Conducted study visits (selection)

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### University of Liege (Belgium), Faculty of Sciences, Department of Geography

INVESTIGATING THE ROLE AND RELATIVE IMPORTANCE OF DIFFERENT SEDIMENT SOURCES IN THE PROGLACIAL AREAS OF NORTH CAUCASUS

Jan. – Apr. 2018

- ERASMUS+ PhD programm
- Hosts: Prof. Dr. Matthias Vanmaercke

### Palermo University (Italy), Dipartimento di Scienze della Terra e del Mare

MODELING RILL EROSION AND ITS CONTRIBUTION TO CATCHMENT SEDIMENT YIELD IN THE SICILY

Oct. 2016

- Hosts: Prof. Dr. Christian Conoscenti

### Tubingen University (Germany), Faculty of Sciences, Department of Geoscience

WORKING FOR THE PEOPLE MARIE CURIE ACTIONS INTERNATIONAL RESEARCH STAFF EXCHANGE SCHEME CALL:

FP7PEOPLE-2012-IRSES «FLUVIAL PROCESSES AND EROSION DYNAMICS IN EUROPEAN RIVER SYSTEMS: ECOLOGICAL EFFECTS OF CLIMATE CHANGE AND HUMAN ACTIVITIES»

Sep. – Oct. 2015

- Hosts: Prof. Dr. Michael Maerker, Prof. Dr. Volker Hochschild

## Publication statistics

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- Co-author of 37 peer-reviewed articles, book chapters, and proceedings
- Around 30 contributions to conferences (excluding full proceedings)
- Around 85 citations over the past 5 years, current h-index: 5
- Info and an overview: [Google Scholar](#)


## Presentations

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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	EGU 2020, online
Jul 2019	Intra-Event Suspended Sediment Dynamics in a Small Glacierized Caucasus Basin	IUGG, Montreal, Canada
Aug 2018	Spatio-temporal assessment of soil erosion and sediment yield for a large river basin	ICCE, Moscow, Russia
Aug 2018	Drivers of sedimentary fluxes assessment in alpine catchments	ICCE, Moscow, Russia
Apr 2017	Testing soil erosion model for large river basins: Lena river	WLR, New Delhi, India

## Other information

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- Completed the basic educational programme of postgraduate academic and pedagogical training in Geosciences 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:
  - 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*; *Water; Sustainability*; *Ecohydrology & Hydrobiology*; *Geography, Environment, Sustainability*)
- Co-author and maintainer of the open Russian-English hydrological dictionary [hydrowiki.org](http://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)

## Skills

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### 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

**Coding Languages**

R – Python





**Software**

QGIS – ArcGIS – SAGA – RStudio –  
Inkscape – 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» 	<a href="#">Online Event</a>
Aug 2021	International Conference on the Status and Future of the World’s Large Rivers 	<a href="#">Moscow, Russia</a>
Nov 2020	School for Young Scientists «Pollutant and sediment mobility in river systems: monitoring studies to identify human impacts» 	<a href="#">Online Event</a>
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» 	<a href="#">Moscow, Russia</a>

**Publications (selection)**

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**PENDING**

1. Golosov, V. N., & Tsyplenkov, A. S. (2021). Factors controlling contemporary suspended sediment yield in the caucasus region? *Water*, IN REVIEW.

**PUBLISHED**

1. 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>
2. 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>
3. 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>
4. 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>
5. 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>
6. Rets, E. P., Popovnin, V. V., Toropov, P. A., Smirnov, A. M., Tokarev, I. V., Chizhova, J. N., Budantseva, N. A., Vasilchuk, Y. K., Kireeva, M. B., Ekaykin, A. A., Veres, A. N., Aleynikov, A. A., Frolova, N. L., Tsyplenkov, A. S., Poliukhov, A. A., Chalov, S. R., Aleshina, M. A., & Kornilova, E. D. (2019). Djankuat glacier station in the North Caucasus, Russia: A database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007-2017. *Earth System Science Data*, 11(3), 1463–1481. <https://doi.org/10.5194/essd-11-1463-2019>
7. Tsyplenkov, A., Vanmaercke, M., & Golosov, V. (2019). Contemporary suspended sediment yield of caucasus mountains. *Proceedings of the International Association of Hydrological Sciences*, 381, 87–93. <https://doi.org/10.5194/piahs-381-87-2019>
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>