

# Aleksandr Tsyplenkov

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CONTACT INFORMATION	Moscow, Russia	<i>Mobile/Telegram:</i> +79167184973 <i>GitHub:</i> <a href="https://github.com/altsyplenkov">github.com/altsyplenkov</a> <i>Website:</i> <a href="https://altsyplenkov.github.io">altsyplenkov.github.io</a> <i>E-mail:</i> <a href="mailto:altsyplenkov@gmail.com">altsyplenkov@gmail.com</a>
PROFILE	4 <sup>th</sup> year undergraduate student pursuing a bachelor degree in Cartography and Geoinformatics at Lomonosov Moscow State University (Faculty of Geography).	
EDUCATION	<b>Lomonosov Moscow State University (LMSU), Faculty of Geography, Department of Cartography and Geoinformatics</b> <ul style="list-style-type: none"><li>B.Sc. in <i>cartography and geoinformatics</i> (currently undergraduate) Undergraduate Thesis (4<sup>th</sup> grade): "<i>Smoothing filtering of the ArcticDEM DSM for unforested and undeveloped areas</i>" — to be defended; <b>2025</b> Undergraduate Thesis (3<sup>d</sup> grade): "<i>DEMs smoothing filtering for the morphometric values calculation</i>" — successfully defended; <b>2024</b></li></ul>	
ADDITIONAL EDUCATION	<b>LMSU</b> – Green finance and sustainable development - elective	<b>2022</b>
	<b>LMSU</b> – Introduction to Python programming - elective	<b>2022</b>
	<b>The Moscow School of Programming</b> – Data Science (Python course)	<b>2020</b>
	<b>The Moscow School of Programming</b> – Computer Networks	<b>2020</b>
	<b>The Moscow School of Programming</b> – Introduction to C# programming	<b>2019</b>
	<b>The Moscow School of Programming</b> – Introduction to C++ programming	<b>2019</b>
EXPEDITIONS	<b>LMSU – Dilijan National Park</b> (Tavush Province, Armenia)	<b>2025</b>
	<ul style="list-style-type: none"><li><i>Field study of tree structures interpretation.</i> Study of possibilities to characterize tree structure by vegetation layers using dense point cloud data from UAV sensing.</li></ul>	
	<b>LMSU – White Sea Biological Station</b> (Republic of Karelia, Russia)	<b>2023</b>
	<ul style="list-style-type: none"><li><i>Topographic-geodesic practice.</i> Practice provided experience in operating modern geodetic equipment (total station, optical level, GNSS receivers), RTK survey, topographic survey execution and teamwork.</li></ul>	
	<b>LMSU – Pustozersk Landscape Reserve</b> (Nenets Autonomous Okrug, Russia)	<b>2023</b>
	<ul style="list-style-type: none"><li><i>Field thematic interpretation practice.</i> Practice provided experience in UAV survey, UAV image postprocessing, spectrometry, thematic mapping and teamwork.</li></ul>	
INTERNSHIPS	<b>TU Berlin – Stadtökologie department</b>	<b>2025</b>
	<ul style="list-style-type: none"><li>The internship provided experience in enhancing skills for visualizing thematic spatial data, including the use of automation tools. Additionally, it offered experience in collaborating within an <i>international research team</i>.</li></ul>	
ACHIEVEMENTS	Awarded 1 <sup>st</sup> place in the Moscow City School Projects competition [Science Art Category]	
	<ul style="list-style-type: none"><li><b>Web map</b>, illustrating the locales associated with classical Russian literature in Moscow City (Stack: R + JS (Leaflet))</li></ul>	
		<b>2021</b>

CONFERENCES	<b>LMSU – International young scientists’ forum “Lomonosov-2024”</b> <b>2024</b> <ul style="list-style-type: none"> <li>• <b>Report</b> on “<i>Experimental study of DEM smoothing filtering algorithms on artificial surfaces</i>” (speaker) [“Geography” section]</li> </ul>
OTHER EVENTS	<b>LMSU – ”LMSU Doors Open Day”, Moscow</b> <b>2025</b> <ul style="list-style-type: none"> <li>• Festival organization, presentation of faculty of Geography and Cartography and Geoinformatics department.</li> </ul> <b>LMSU, RAS – Russian Science Festival ”Nauka 0+”, Moscow</b> <b>2024</b> <ul style="list-style-type: none"> <li>• Festival organization, presentation of faculty of Geography and Cartography and Geoinformatics department.</li> </ul> <b>TU Berlin – Lange Nacht der Wissenschaften, Berlin</b> <b>2024</b> <ul style="list-style-type: none"> <li>• Festival organization, presentation of Urbanoikos department.</li> </ul> <b>LMSU – Moscow Olympiad for School Students (Geography), Moscow</b> <b>2023</b> <ul style="list-style-type: none"> <li>• Organization of the test process and overall management of the Olympiad</li> </ul>
HARD SKILLS	Software: <ul style="list-style-type: none"> <li>• <b>GIS:</b> QGIS, ArcGIS (Pro/Desktop), SAGA GIS, GRASS GIS, WhiteboxTools;</li> <li>• <b>Database Management:</b> PostgreSQL (PostGIS), MySQL;</li> <li>• <b>Reference Management:</b> Zotero;</li> <li>• <b>UAV management:</b> Pix4d, Dronedeploy, DJI Fly;</li> <li>• <b>Photogrammetry:</b> Agisoft Metashape, CloudCompare;</li> <li>• <b>Design:</b> Adobe Photoshop, Adobe Illustrator, Gimp;</li> <li>• <b>Other:</b> SNAP, MultiSpec, ILWIS, Surfer, ParaView, Panoply;</li> </ul> Coding: <ul style="list-style-type: none"> <li>• Python (advanced): geospatial analysis, dataviz;</li> <li>• R (pre-intermediate);</li> <li>• C++ (pre-intermediate);</li> <li>• C# (pre-intermediate);</li> </ul> Geodetic surveys: <ul style="list-style-type: none"> <li>• Tacheometric survey;</li> <li>• Leveling and theodolite work;</li> <li>• Work with GNSS receivers (including RTK mode);</li> </ul> UAV operated: <ul style="list-style-type: none"> <li>• DJI Mavic 3 (T&amp;M), DJI Mavic 2, DJI Neo;</li> </ul> Miscellaneous: <ul style="list-style-type: none"> <li>• LaTeX, Markdown, Quarto, Git;</li> <li>• OverpassTurbo;</li> <li>• OSM iD, JOSM, Vespucci</li> </ul> Languages: <ul style="list-style-type: none"> <li>• English (C1), Russian (Native)</li> </ul>
OTHER INTERESTS / HOBBIES	<ul style="list-style-type: none"> <li>• <b>Mapping for OSM:</b> <b>My OSM contributions</b></li> <li>• Some of my projects are presented in <b>my web-portfolio</b></li> </ul>