

Name	Sofia Lessovaia
Position	Professor
Affiliation	St. Petersburg State University
Higher education	<ul style="list-style-type: none"> • 2006 St. Petersburg State University, St. Petersburg, Russia Degree of Doctor habil. in Geography Science • 1993 Dokuchaev Institute of Soil Science, RAAS, Moscow, Russia PhD in Soil Science • 1989 St. Petersburg (Leningrad) State University, St. Petersburg, Russia M.Sc. in Soil Science
Academic career	<ul style="list-style-type: none"> • 2007 to present Professor, Department of Physical Geography and Landscape Planning, Institute of Earth Sciences, St. Petersburg State University • 1999 -2007 Associate professor, Department of Soil Science, Biology and Soil Sciences Faculty, St. Petersburg State University
Teaching activities	Saint Petersburg State University M.Sc. courses: Genesis of soil profile and soil classification B.Sc.courses: Soils of natural landscapes Methods of field research in physical geography
Research and development projects during the past 5 years	Geographical trends of soil mineral composition in the cold sector of Eurasia, RFBR (14-04-00327) (2014-2016) Geographical trends of recent processes of pedogenesis and weathering in the landscapes of the Eurasian cold sector, estimation of self-restoring and regeneration, SPbGU (18.38.418.2015), (2015-2017)
Significant publications during the past 5 years	<p>Selected publications:</p> <p>S.N. Lessovaia, S. Goryachkin, Y. Polekhovskiy, V. Ershova, A. Filimonov (2016) Abiotic and Biotic Processes of Mineral Weathering in Tundra Soils on Ultramafic and Mafic Rocks of the Polar Urals, Russia. In Biogenic—Abiogenic Interactions in Natural and Anthropogenic Systems, Lecture Notes in Earth System Sciences. (Ed. V. Frank-Kamenetskaya et al.). Springer International Publishing Switzerland, p. 223-236.</p> <p>O. Sumina, S.N. Lessovaia (2016) Clay Minerals in the Loose Substrate of Quarries Affected by Vegetation in the Cold Environment (Siberia, Russia). In Biogenic—Abiogenic Interactions in Natural and Anthropogenic Systems, Lecture Notes in Earth System Sciences. (Ed. V. Frank-Kamenetskaya et al.). Springer International Publishing Switzerland, p. 249-259</p> <p>S. Lessovaia, M. Plötze, S. Inozemzev, S. Goryachkin (2016) Traprock transformation into clayey materials in soil environments of the central Siberian plateau, Russia. Clays and Clay Minerals. V. 64, No. 5, 668–676.</p> <p>S.N. Lessovaia, S. Dultz, M. Plotze, N. Andreeva, Y. Polekhovskiy, A. Filimonov, O. Momotova (2016) Soil development on basic and ultrabasic rocks in cold environments of Russia traced by mineralogical composition and pore space characteristics. Catena, V. 137, 596–604.</p> <p>M. Egli, S. Lessovaia, K. Chistyakov, S. Inozemzev, Yu. Polekhovskiy, D. Ganyushkin (2015) Microclimate affects soil chemical and mineralogical</p>

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	<p>properties of cold-alpine soils of the Altai Mountains (Russia). <i>Journal of Soils and Sediments</i>, V. 15,1420–1436.</p> <p>S. Lessovaia, S. Dultz, S. Goryachkin, M. Ploetze, Yu. Polekhovsky, N. Andreeva, A.Filimonov (2014) Mineralogy and pore space characteristics of traprocks from Central Siberia, Russia: Prerequisite of weathering trends and soil formation. <i>Applied Clay Science</i>, V. 102, 186–195.</p> <p>S.N. Lessovaia, S. V. Goryachkin, R.V. Desyatkin, M.V. Okoneshnikova (2013) Pedoweathering and mineralogical change in Cryosols in an ultracontinental climate (Central Yakutia, Russia). <i>Acta Geodyn. Geomater.</i> V. 10, No. 4 (172), 465–473.</p> <p>S. Lessovaia, S. Dultz, Yu. Polekhovsky, V. Krupskaya, M. Vigasina, L. Melchakova (2012) Rock control of pedogenic clay mineral formation in a shallow soil from serpentinous dunite in the Polar Urals, Russia. <i>Applied Clay Science</i>, 2012, V 64, p. 4–11.</p> <p>S.Lesovaya, S.V. Goryachkin, Yu.S. Polekhovskii (2012) Soil Formation and Weathering on Ultramafic Rocks in the Mountainous Tundra of the Rai-lz Massif, Polar Urals. <i>Eurasian Soil Science</i>, Vol. 45, No. 1, p. 33–44.</p>
<p>Activities in scientific organizations and associations during the past 5 years</p>	<p>Member of Dokuchaev Soil Science Society at Russian Academy of Sciences</p> <p>Member of Deutsch Ton-und Tonmineralgruppe (DTTG)</p>