

DARIA POLOSUKHINA

PhD student, “Biological sciences, Ecology”

Institute of Ecology and geography

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Date of Birth: 02 November 1995

Google Scholar:

<https://scholar.google.ru/citations?hl=ru&user=4TfFAdwAAAAJ>

Research gate:

https://www.researchgate.net/profile/Daria_Polosukhina



EXPERIENCE

November 2017 - nowadays

Laboratory assistant in the laboratory of ecosystem biogeochemistry, Institute of Ecology and geography SibFU

Duties:

- processing meteorological data on the territory of middle Siberia;
- determination of absolutely dry weight of litter by fractions in the laboratory;
- participation in the implementation of the grant RFBR №18-34-00736.

May 2017 - July 2017

Laboratory assistant in the laboratory of ecosystem biogeochemistry, Institute of Ecology and geography SibFU

Duties:

- expeditionary work at the ZOTTO Observatory;
- measured soil respiration with Li-cor 8100;
- collaboration with Spanish student Laia Vandellós Delgado on the issue of the forests restoration after forest fires.

SCIENTIFIC INTERESTS

- Carbon balance in boreal forest
- Moss and lichen carbon photoassimilation flux
- Carbon and nitrogen isotopic composition in soil

EDUCATION

2019-Nowadays

Institute of Ecology and geography, Siberian Federal University, Krasnoyarsk, Russia

PhD student, “Biological sciences, Ecology”.

2017 - 2019

Institute of Ecology and geography, Siberian Federal University, Krasnoyarsk, Russia

Master of ecology and environmental science (ecological monitoring)

Graduated with Honors

2013-2017

Institute of Ecology and geography, Siberian Federal University, Krasnoyarsk, Russia

Bachelor of ecology and environmental science

Graduated with Honors

PARTICIPATION IN CONFERENCES: over 20. The most important:

1. All-Russian Conference with International Participation “Forest ecosystems of boreal zone: biodiversity, bioeconomy, ecological risks”, Krasnoyarsk, Russia, , 2019

2. III International Conference “Science of the Future” and the IV All-Russian Forum “Science of the Future - Science of the Young”, Sochi, Russia, 2019
3. XXIII International ecological student conference “Ecology of Russia and adjacent territories” (IESC 2018), Novosibirsk, Russia, 2018
4. “LOMONOSOV’S reading in Altai fundamental problems of science and education”, Barnaul, Russia, 2017
5. The 12th All-Russian conference with the international participation “Geography and geoecology on the service of science and innovations formation”, Krasnoyarsk, Russia, 2017
6. The 55th International students scientific conference “ISSC-2017”, Novosibirsk, Russia, 2017
7. International scientific conference XX DOCUCHAEV’S Conference for young scientists devoted to the Ecology year–2017 in Russia “Soil and sustainable development of state”, Saint-Petersburg, Russia, 2017
8. International workshop “Ecology of forest fires”, Krasnoyarsk, Russia, 2016
9. International student research conference in the framework of the International Summer School “Monitoring and Early Warnings in Biodiversity Governance“, Ergaki, Russia, 2016
10. International Summer School “Monitoring and Early Warnings in Biodiversity Governance“, Krasnoyarsk, Russia, 2016

PROJECT EXPERIENCE

2018 – nowadays

RFBR № 18-05- 60203 “Landscape and hydrobiological controls on the transport of terrigenic carbon to the Arctic Ocean”, executor of the project

2017 – nowadays

RFBR № 18-34-00736 “The effect of the main limiting factors (precipitation and soil nitrogen content) to the soil CO₂ emission in the boreal forests of Central Siberia”, executor of the project

2018

“Carbon dioxide emissions from the surface of small watercourses in the Yenisei river basin”, executor of the project

Agreement between the Sukachev Institute of Forest SB RAS, Federal Research Center «Krasnoyarsk Science Center SB RAS» and the University of Umea (Sweden)

2018

The project “Ecosystem Green square”, executor of the project
Together with Rosatom state Corporation

2016

“Long-term impacts of fires on carbon and nitrogen pools and flows in Arctic and subarctic permafrost forests”, executor of the project

Research under the Contract Sukachev Institute of Forest SB RAS, Federal Research Center «Krasnoyarsk Science Center SB RAS» № 366 from 01.04.2016 with the University of Helsinki (Finland)

2016

RSF № 14-24-00113 “Response of exchange flows of carbon terrestrial ecosystems with the atmosphere and hydrosphere in the river basin Yenisei on climate variability”, executor of the project

PUBLICATIONS: over 30. The most important (in original language of publication):

1. Gavrikova E. / Clean energy sources: Insights from Russia/E. Gavrikova, Y. Burda, V. Gavrikov, R. Sharafutdinov, I. Volkova, M. Rubleva, **D. Polosukhina**// Resources, 2019, Vol. 8, Is. 2, pp. 84-109.
2. Makhnykina A.V. / Influence of precipitation on CO 2 soil emission in pine forests of the Central Siberia boreal zone/ A.V. Makhnykina, N.N. Koshurnikova, S. V. Verkhovets, A. S. Prokushkin, **D. A. Polosukhina** // IOP Conf. Series: Earth and Environmental Science. ENVIROMIS-2018, 2018, Vol. 22, No. 11.
3. Махныкина А.В. / Влияние дифференцированного количества увлажнения на почвенную эмиссию СО 2 в сосновых лесах бореальной зоны Центральной Сибири / А.В. Махныкина, А.С. Прокушгин, **Д.А. Полосухина** // Материалы Международной конференции и школы молодых ученых по измерениям, моделированию и информационным системам для изучения окружающей среды: «ENVIROMIS–2018» 2018, с. 251-254.
4. Гавриков В. Л. / Ключевые аспекты концепции «Зеленого квадрата» в Красноярском крае/ В. Л. Гавриков, Р.А. Шарафутдинов, А. А. Бурнова, М. Е. Рублева, Д. В. Злобин, **Д.А. Полосухина** // Ежегодный научный журнал «Экологический ежегодник». № 11, 2018. – С. 21-27.
5. Махныкина А. В. / Изменения почвенной эмиссии СО 2 в таёжных экосистемах Центральной Сибири: от суточной до межсезонной динамики // А.В. Махныкина, Н.Н. Кошурникова, А.С. Прокушгин, **Д.А. Полосухина** / Экология. Экономика. Информатика. Системный анализ и моделирование экономических и экологических систем. Том 1.- Ростов-на-Дону: Издательство Южного научного центра Российской академии наук, 2018. – С. 205-210
6. **Полосухина Д.А.** / Фотоассимиляционные потоки углерода мохово-лишайникового яруса растительности сосновых биогеоценозов зоны охвата станции высотной мачты ZOTTO // **Д.А. Полосухина** / Материалы Международной научной школы-конференции студентов и молодых ученых «Экология Южной Сибири и сопредельных территорий (ЭЮС – 2018)». Абакан: ХГУ им. Н.Ф. Катанова, 2018. – С. 25
7. Пожаркова И. Н. / Мониторинг восстановления лесных сообществ после воздействия пожаров на территории Юксеевского лесничества // И. Н. Пожаркова, М. В. Гапоненко, М. Е.Рублева, **Д.А. Полосухина** / Сибирский пожарно-спасательный вестник. ФГБОУ ВО Сибирская пожарно-спасательная академия, Железногорск. - № 1 (4). - 2017. – С. 17-21.
8. **Полосухина Д.А.** / Сравнительная характеристика запасов органического вещества лесных биогеоценозов зоны охвата высотной мачты ZOTTO // **Д.А. Полосухина**, А. С. Прокушгин / Избранные труды международной конференции «Ломоносовские чтения на Алтае: фундаментальные проблемы науки и образования». Часть 2.– Барнаул: Алт. гос. ун-т., 2017. – С. 55-61.

SKILLS: Intermediate level (English)

REWARDS

1. The winner of the Prize of the Head of the City to young talents (2019)

- 2.** Gold medalist of the second All-Russian student olympiad "I am a professional" in the academic year 2018-2019 in the category "Specialty / Master" in the direction "Ecology"
- 3.** The winner of Scholarship of the Non-government environmental fund named after V.I. Vernadsky in the 2018-2019 academic year
- 4.** The winner of scholarship of the Russian Federation Government in the 2018-2019 academic year
- 5.** "The Best career counselor of SibFU", 2018;
- 6.** Laureate of the "RUPOR" Prize for "Professionalism", 2018;
- 7.** Winner of the Competition "Student of the year in Siberian Federal University" in the nomination "Best in Scientific Activity", 2018;
- 8.** The winner of the scholarship named zoologist EA Krutovskaya for Achievements in the Field of Agricultural and biological sciences, Krasnoyarsk, 2018