CURRICULUM VITAE

Perfilova Alina Alexandrovna

Family First Middle

Nationality: Russian

Current Appointment: Research scientist

Fields of the Degree: Regional geology, Tectonics

Institution: Novosibirsk State University

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Research Interests

- Pacific-type orogeny; accretionary and supra-subduction complexes;
- Major, trace and isotope composition of sedimentary and igneous rocks;
- Isotope geochronology (U-Pb zircon dating);
- Lithology of sedimentary rocks: composition, structural features, origin.

Education

2013-2017	Novosibirsk State University (BcS in Geology)	Novosibirsk, Russia
2017-2019	Novosibirsk State University (McS in Geology, Honors)	Novosibirsk, Russia
2019-2022	Sobolev Institute of Geology and Mineralogy (Postgraduate)	Novosibirsk, Russia
2023	Geological Institute of Russian Academy of Science (PhD)	Moscow, Russia

Professional background

2016-2017	Institute of Petroleum Geology and Geophysics SB RAS (laboratory assistant)	Novosibirsk, Russia
2017-2024	Sobolev Institute of Geology and Mineralogy SB RAS (junior research scientist)	Novosibirsk, Russia
2017-now	Novosibirsk State University (research scientist)	Novosibirsk, Russia

Training

2018	U-Pb zircon dating with LA ICP MS (Nanjing University)	Nanjing, China
2018	U-Pb zircon dating with LA ICP MS (Hong Kong University)	Hong Kong, China
2019	U-Pb zircon dating with LA ICP MS (Okayama University)	Okayama, Japan

Research projects

- Megagrant project “A multidisciplinary study of Pacific-type orogenic belts and development of a holistic model linking evolution of oceans, their active margins and mantle magmatism” under the Ministry of Education and Science of the Russian Federation, project leader – Safonova I. Yu., 2017-2019; http://lepom.nsu.ru/
- Russian Science Foundation (RSF) project No. 21-77-20022 "Subduction erosion on the convergent margins of the Paleo-Asian Ocean according to the study of accretion and subduction complexes Central Asian fold belt ", project leader – Safonova I. Yu., 2021-2024;
- Russian Science Foundation (RSF) project No. 20-77-10051 "Reconstruction of the Early-Middle Paleozoic stage of evolution of the Paleo-Asian Ocean on the basis of a comprehensive study of accretionary complexes of the Central Asian fold belt ", project leader – Savinsky I. A., 2020-2023;
- Russian Foundation for Basic Research (RFBR) project No. 20-35-90091 "Sources and tectonic settings of formation of sandstones from Paleozoic accretionary complexes of the Paleo-Asian Ocean according to data geochemistry and zirconometry ", for post-graduate student Perfilova A. A., project leader – Safonova I. Yu., 2020-2022;
- Russian Foundation for Basic Research (RFBR) project No. 20-35-70076 "The role and mechanisms of mantle-crust interaction in the formation of post-orogenic granitoids of Central Asian Orogenic Belt", project leader – Kotler P. D., 2019-2020.

Field work

- Southwest Siberia, Russia: Sayan Area, Neoproterozoic Nersa dolerite complex, 2016.
- Eastern Kazakhstan: Zharma-Saur arc, Devonian-early Carboniferous formations, 2017.
- Central Kazakhstan: Itmurundy accretionary complex, Ordovician-Silurian formations, 2017-2019.
- Russian Altay Mts., SW Siberia, Russia: Kurai and Katun accretionary complexes, Cambrian-Ordovician formations, 2017, 2024.
- Southern Tien Shan, Kyrgyzstan: Alai accretionary complex, Silurian-Devonian formations, 2018.
- Mongolia: Ulaanbaatar terrane, Silurian-Devonian formations, 2018-2019.
- Central Kazakhstan: Tekturmas accretionary complex, Ordovician-Silurian formations, 2020.
- Russian Altay Mts., SW Siberia, Russia: Zasur’ya accretionary complex, Cambrian-Ordovician formations, 2021, 2023.
- Northern Tien Shan, Kyrgyzstan: Cambrian-Ordovician complexes, ophiolite complex, 2023, 2024.

Conference / Workshop / Forum

- Annual Tectonic Conference, Moscow, Russia, 2022, 2023, 2025;
- 1st International Geological Field Forum «Geology, tectonics and magmatism of the Northern Tien Shan», Bishkek, Kyrgyzstan, September, 2024;
- XXI Conference «Geodynamic evolution of the lithosphere of the Central Asian Orogenic Belt: from ocean to continent», Irkutsk, Russia, 2023;
- IAGR Annual Convention and Conference Gondwana to Asia, Kochi, Japan, 2019; Qingdao, China, 2021;
- Kratz-Mitrofanov Scientific School-Conference for early-career scientists, Saint-Petersburg, Russia, 2020; Petrozavodsk, Russia, 2021;
- 13th International Symposium on the Ordovician System, Novosibirsk, Russia, 2019;
- 57th International Students Scientific Conference, Novosibirsk, Russia, 2019;
- Satpaev-Radugin International Scientific Symposium for early-career scientists, Tomsk, Russia, 2019;
- Joint Seminar for Early-Career Geoscientists on the Central Asian Orogenic Belt, Hong Kong, China, 2018;
- A conference of Petrology of Magmatic and Metamorphic complexes, Tomsk, Russia, 2018;
- IX Siberian Conference of Earth Science for early-career scientists, Novosibirsk, Russia, 2018;
- Conference on Convergent Margins, Vladivostok, Russia, 2018, 2021.

List of main publications

1) Safonova I., Savinskiy I., **Perfilova A.** (corr. author), Obut O., Gurova A., Krivonogov S., Gurova A., 2024. A new tectonic model for the Itmurundy zone of Central Kazakhstan: linking ocean plate stratigraphy, timing of accretion and subduction polarity. Geoscience Frontiers 15(4), 101814.
2) Safonova I., Krutikova A., **Perfilova A.,** Obut O., Kovach V., Kulikova A. Early Paleozoic juvenile crustal growth in the Paleo-Asian Ocean: a contribution from the Zasur'ya accretionary complex of NW Altai. Earth Science Reviews 104648.
3) Safonova I., **Perfilova A.,** 2023. Survived and disappeared intra-oceanic arcs of the Paleo-Asian Ocean: evidence from Kazakhstan. National Science Review 10.
4) Safonova I., **Perfilova A.** (corr. author), Savinskiy I., Kotler P., Sun M., Wang B., 2022. Sandstones of the Itmurundy accretionary complex, central Kazakhstan, as archives of arc magmatism and subduction erosion: Evidence from U-Pb zircon ages, geochemistry and Hf-Nd isotopes. Gondwana Research 111, 35-52.
5) **Perfilova A.A.,** Safonova I.Y., Gurova A.V., Kotler P.D., Savinskiy I.A., 2022. Tectonic settings of formation of volcanic and sedimentary rocks of the Itmurundy zone, central Kazakhstan. Geodynamics & Tectonophysics 13 (1), 0572.
6) **Perfilova A.A.,** Safonova I.Y., Degtyarev K.E., Savinskiy I.A., Kotler P.D., Khassen B.P., 2022. Composition and sources of Silurian terrigenous rocks at the periphery of the Tekturmas ophiolite zone (central Kazakhstan). Doklady Earth Sciences 505 (1), 11–17.

Curation experience

1) Two BSc students; Penkina Valeriya, title "Geological position of the Zharma-Saur zone (eastern Kazakhstan)"; Oganyan Karina, title "Age and composition of the middle-late Paleozoic clastic rocks of the Alai Ridge (Southern Tien Shan)");

2) MSc student; Krutikova Anastasiya, title "Reconstruction of the magmatic protoliths and depositional environments of the sandstones of the Zasur'ya accretionary complex, NW Altai".

Additional skills

- Field observation (visual rock diagnostics, geological mapping of structures, cross-sections, lithological and tectono-stratigraphic columns);
- Paper preparation;
- Microscopic petrography (including point-counting);
- Sample preparation: rock crushing and leaching, mineral separation (magnetic, electromagnetic, heavy liquids), zircon hand picking (under binocular), polishing;
- CL-imaging of zircons;
- SEM imaging;
- LA ICP MS U-Pb dating of zircons;
- Experienced PC user (MO Office, CorelDrow, Adobe, Grapher, PS, etc.);
- Basic knowledge of Python programming language.