

Name: Olga A. Gavryushkina

Current appointment: PhD student

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PERSONAL DATA:

Birth date: January 8, 1988

Birthplace: Novosibirsk city, USSR

Sex: Female

Marital status: Married

Nationality: Russian

Status: Citizen of Russia

Permanent address: Morskoy st. 9-30, Novosibirsk, 630090 Russia

Occupation: V.S. Sobolev Institute of Geology and Mineralogy, Russian Academy of Sciences,
Pr. Koptyuga 3, Novosibirsk, 630090, Russia

Academic preparation:

01.07.2006 – 30.06.2011 – Department of Geology and Geophysics, Novosibirsk State University, Russia. Field of study – Mineralogy and petrology.

10.10.2011 – 09.10.2013 – Graduate School of Science of the Novosibirsk State University, Russia. Field of study – Mineralogy and petrology.

Degrees:

B.Sc. in Geology, Novosibirsk State University, June, 2011

Diploma title: Spodumene pegmatite mineralogy of the Tashelginskoe field (Gornaya Shoria region) by the example Jurievskaya vein.

M.Sc. in Geology, Novosibirsk State University, June, 2013.

Diploma title: Rare metal rock mineralogy of Alakhinski stock (Gorny Altay region).

Current research interests:

Mineralogy, petrography, igneous petrology, geochemistry, geochronology.

Languages:

Russian (native), English (intermediate)

Teaching:

September 2014 – present time

Senior Lecturer, “Minerals ontogeny”. Geology-Geophysics department, Novosibirsk State University, Russia.

Research projects:

1. The Ministry of Education and Science of the Russian Federation, grant no. 14.Y26.31.0018 “A multidisciplinary study of Pacific-type orogenic belts and development of a holistic model linking evolution of oceans, their active margins and mantle magmatism”. 2017-2019, member (Prof. Shigenory Maruyama leader)
2. Russian Foundation for Basic Research (RFBR) Grant No 16-35-00077 “Reconstruction of origin and petrogenesis mechanisms of Permian-Triassic granitoids of Gorny Altai region based on mineralogical, geochronological and geochemical data”. 2016-2017, leader.
3. Russian Foundation for Basic Research (RFBR) Grant No 16-05-00515 A “The continental crust and granitoids sources in the pre-Mesozoic blocks of the Southern Primorye Interior”. 2016-2018, member (Dr. Nikolai N.Kruk leader).
4. Russian Foundation for Basic Research (RFBR) Grant No 16-05-00128 A “Dynamics of fluid-magmatic interaction and thermo chronology of rare metal ore-magmatic systems”. 2016-2018, member (PhD Irina Yu.Annikova leader).
5. Interdisciplinary project of the Presidium of the Siberian Branch of the Russian Academy of Sciences (Integration project) No 123 “Trace elements in rare-metal and base-metal ore-magmatic systems, mineralogy and micromineralogy, new technology in the mechanochemical processing of ores, and reappraisal of rare-element potential of the deposits”. 2012-2014, member (Prof. Alexander G. Vladimirov leader).

Additional professional skills:

- microscopic petrography (description of magmatic rocks);
- sample preparation: grinding and leaching of rocks, mineral separation (heavy liquids), hand picking (under binocular), mineral installation in epoxy tablets and its preparing for analytical investigation (EMPA, EDS, La-ICP-MS).
- geosciences popularization (popular lectures, field trips, museology)

LIST OF PUBLICATIONS:

Papers

1. O.A. Gavryushkina, N.N. Kruk, A.V. Travin Duration of granitoid magmatism of large igneous provinces peripheral parts (based on $^{40}\text{Ar}/^{39}\text{Ar}$ isotopic studies of Altai Permian-Triassic granitoids) // *Geodynamics & Tectonophysics*. In press
2. N.N. Kruk, O.A. Gavryushkina, S.N. Rudnev, C.G. Shokalskiy, A.B. Kotov, A.V. Travin, V.P. Kovach, E.A. Vasyukova (2017) Petrology and age of granitoids of the Aturkol massif, Gorny Altai: contribution in the problem of formation of intraplate granitoids // *Petrology*. In press
3. N.N. Kruk, O.A. Gavryushkina, C.G. Shokalskiy, A.V. Travin (2016) Mineralogy, geochemistry and conditions of formation Permian-Triassic intraplate granitoids of Sinyushenskiy Massif (Gorny Altai) // *Litosfera*. No 2. pp. 5-23.
4. I.Yu. Annikova, A.G. Vladimirov, S.Z. Smirnov, O.A. Gavryushkina (2016) Geology and Mineralogy of the Alakha Spodumene Granite Porphyry Deposit, Gorny Altai, Russia // *Geology of Ore Deposits*. Vol. 58, No. 5, pp. 404–426.
5. A.G. Vladimirov, V.E. Zagorskiy, S.L. Shvartsev, V.P. Isupov, S.Z. Smirnov, S.V. Alekseev, L.P. Alekseeva, N.I. Volkova, I.F. Gertner, V.M. Makagon, L.G. Kyznetsova, I.Yu. Annikova, M.N. Kolpakova, E.I. Mikheev, P.D. Kotler, O.A. Gavryushkina (2014) Geochemical tendencies of lithium concentration in the Earth's crust and above its ground surface // *Geology and mineral resources of Siberia*. No 3. V. 1. pp. 59-62.
6. I.Yu. Annikova, A.G. Vladimirov, S.Z. Smirnov, A.N. Uvarov, I.F. Gertner, O.A. Gavryushkina (2013) Geology and mineralogy of spodumene pegmatites from Mountain Shoriya // *Tomsk State University Journal*. No 376. pp. 168–174
7. A.G. Vladimirov, N.Z. Lyakhov, V.E. Zagorskiy, V.M. Makagon, L.G. Kuznetsova, S.Z. Smirnov, V.P. Isupov, I. M. Belozеров, A.N. Uvarov, G.S. Gusev, T.S. Yusupov, I.Yu. Annikova, S.M. Beskin, S.P. Shokalskiy, E.I. Mikheev, P.D. Kotler, E.N. Moroz and O.A. Gavryushkina (2012) Lithium Deposits of Spodumene Pegmatites in Siberia // *Chemistry for Sustainable Development*, No 1, pp. 3-20.

Abstracts and conference proceedings

1. O.A. Gavryushkina, A.V. Travin, N.N. Kruk (2016) The duration of the permian-triassic granitoids formation, Altai region (based on ^{40}Ar - ^{39}Ar dating) // Proceedings of the third International Scientific Conference “Correlation altaid and Uralides: magmatism, metamorphism, stratigraphy, geochronology, geodynamics and metallogeny”, Novosibirsk, Russia. pp. 58-59. *in russian*
2. O.A. Gavryushkina, N.N. Kruk (2015) The Permian-Triassic granitoid associations comprising magnetite and ilmenite of the Gorny Altai region (the example Sinyushenskiy and Aturkolsky massif) // Proceedings of the VII All-Russian young scientists conference “Minerals: structure, properties, methods of research”. Ekaterinburg, Russia. pp. 21-22. *in russian*
3. O.A. Gavryushkina, N.N. Kruk, C.G. Shokalskiy, S.N. Rudnev (2014) Mineralogy and geochemistry of early-triassic granitoids of Aturkolsky massif, the Gorny Altai region // Proceedings of the scientific meeting “Geodynamic evolution of the lithosphere of the Central Asian mobile belt, from ocean to continent”, Irkutsk, Russia. pp. 71-73. *in russian*
4. I.Yu. Annikova, A.G. Vladimirov, S.Z. Smirnov, O.A. Gavryushkina (2015) Geology, mineralogy and physico-chemical conditions of the spodumene granite porphyry formation of Alakhinski deposit, the Gorny Altai region // Proceedings of the All-Russian meeting, dedicated to the 50th anniversary of the petrology, geochemistry and ore genesis laboratory of the Institute of the Earth's crust SB RAS. Irkutsk, Russia. pp. 27-29. *in russian*
5. O.A. Gavryushkina, N.N. Kruk (2014) The features of the rock-forming minerals composition of the permian-triassic granitoids, Northwestern Altai region // Proceedings of mineralogical seminar with international participation “Problems and perspectives of modern mineralogy (Yushkin Memorial Seminar – 2014)”. Syktyvkar, Russia. pp. 61-62.
6. I.Yu. Annikova, O.A. Gavryushkina, S.Z. Smirnov, A.G. Vladimirov, V.P. Isupov (2014) Geology and spodumene granite porphyry technology mineralogy of the Alakhinski stock, Gorny Altai region // Abstracts of

the All-Russian scientific-practical conference “Improving the investment attractiveness of the complex rare metal deposits with a view to preparing them for licensing and development”. Moscow, Russia. *in russian*

7. O.A. Gavryushkina (2013) The granite pegmatite rare metal mineralogy of the Tashelginskoe field (Gornaya Shoria region) and its practical use perspectives // All-Russian graduate students scientific conference-competition. Saint-Petersburg, Russia. *in russian*

8. I.Yu. Annikova, S.Z. Smirnov, O.A. Gavryushkina (2012) Spodumene pegmatite mineralogy of the Tashelginskoe field (Gornaya Shoria region) // Proceedings of the All-Russian conference dedicated to academician F.Yu. Levinson-Lessing 150th anniversary and prof. G.M. Saranchina 100th anniversary “Current problems in magmatism and metamorphism”. Saint-Petersburg, Russia. pp. 40-44. *in russian*

9. I.Yu. Annikova, A.N. Uvarov, S.Z. Smirnov, A.G. Vladimirov, O.A. Gavryushkina (2011) Geological setting, mineral composition and age of the spodumene pegmatite Tashelginskoe deposit, Gornaya Shoria region // Proceedings of scientific-practical meeting with international participation “Russian Lithium”. Novosibirsk, Russia. pp. 14-16. *in russian*