



Maksim V. Kuznetsov

Assistant Specialist at the Department of Earth Sciences
Supervisor of the SOEST Isotope Laboratory
University of Hawaii at Manoa

Education

St. Petersburg State University, Russia,
PhD in Geology and Mineralogy

Sep 2018 – Apr 2023

- Focus on isotope geology and igneous petrology.
- Research on the sources and formation environments of the Mesozoic and Cenozoic intraplate volcanic rocks of Mongolia and Transbaikalia.

St. Petersburg State University, Russia,
Master's Degree in Geochemistry and Mineralogy

Sep 2016 – Jul 2018

- Focus on isotope geology and igneous petrology.
- Research on the sources of Mesozoic volcanic rocks of Mongolia.

St. Petersburg State University, Russia,
Bachelor's Degree in Geology and Ecology

Sep 2012 – Jul 2016

- Interdisciplinary education with a focus on the ecological and geochemical condition of mineral deposits and marine sediments using GIS.

Courses

Yandex School of Data Analysis, Russia, Data Scientist

Sep 2022 – Apr 2023

- Using statistical and machine learning methods to work with big data.

Work Experience

University of Hawaii at Manoa, USA

Assistant Specialist at the Department of Earth Sciences

May 2024 - Present

- Management of the operation of the Isotope Laboratory (Nu TIMS + associated clean room).
- Routine maintenance, troubleshooting, and repair of instrumentation and equipment in the Isotope Laboratory.
- Independent or collaborative scientific research using the Isotope Laboratory, the development of new analytical methods.
- Presentation of the results of research at professional meetings/conferences, publishing the results of research in peer-reviewed journals.
- Training and mentorship of students in the Isotope Laboratory.
- Providing institutional and extramural funding to support research in the Isotope Laboratory.
- Monitoring and management of the laboratory budget. Procure goods and services to support the operation of the laboratory.

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E-mail

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Date of birth

07-21-1994

LinkedIn

linkedin.com/in/garneteclogite

GitHub

github.com/garneteclogite

ResearchGate

researchgate.net/profile/Maksim-Kuznetsov

Computer Skills

Microsoft Office	★★★★★
Python	★★★★☆
Pandas	★★★★☆
SQL	★★★★☆
alphaMELTS	★★★★☆
ArcGIS	★★★★☆
QGIS	★★★★☆
Statistica SOFT	★★★★☆
CorelDRAW	★★★★☆

Languages

Russian	★★★★★
English	★★★★☆

Interests

Badminton
Tennis
Jogging
Electronic music
DJing
Tracking
Traveling

Work Experience (continued)

Institute of Precambrian Geology and Geochronology, Russia

Engineer → Lead Engineer → Junior Staff Scientist

of the Laboratory of Geochronology and Geochemistry of Isotopes

Oct 2018 – May 2024

- Operation of TIMS lab (chemistry in a clean room + measurements on Triton TI and MAT261 mass spectrometers).
- Thermodynamic modeling of magmatic processes in alphaMELTS software.
- Training and mentoring students in the lab.
- Research reports and articles writing.
- Presentation of scientific results at international conferences.
- Participation in the work of the Institute's Young Scientists Council. Organization of workshops for young scientists.

St. Petersburg State University, Russia,

Lecturer in the Department of Geochemistry

Sep 2021 – Oct 2022

- Lecturing on the use of statistics in geochemistry: STATISTICA program, the Python programming language and its libraries for Exploratory Data Analysis).
- Developing an Isotope Geology Course: suggestions for student case studies and workshops.
- Organization of summer practice for students in geological mapping. Teaching students the following skills: identifying rocks in the field, determining the dip and strike characteristics of the rocks, creating a geological map and writing a final geological report.
- Involvement of students in the operation of the TIMS lab outside the university.
- Creating materials aimed at spreading positive information about the Department of Geochemistry (posters, articles, blogs).

Government of St. Petersburg, Arctic Affairs Committee, Russia

Advisor on scientific work and environmental monitoring

Apr 2019 – Feb 2020

- Development of scientific projects aimed at studying the geological and ecological problems of the Russian Arctic.
- Organization of cooperation between the Committee and universities of St. Petersburg in the implementation of projects in the Russian Arctic.
- Mediation between organizations in the Russian Arctic and companies of St. Petersburg to develop collaborative research plans. Development of commercial proposals.
- Writing and submitting proposals to public authorities in order to attract funding for events of the Committee.
- Organization of events aimed at involving indigenous peoples of the Russian North in the scientific and educational life of St. Petersburg. Vocational guidance assistance.

Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, Russian Academy of Sciences, **Field geologist of the second category**

Jun 2017 – Aug 2017

- Organization of the Russian-Mongolian expedition.
- Studying volcanic rocks' geological sections.
- Volcanic rock sampling for chemical and isotopic analysis.

Russian Geological Research Institute (VSEGEI),

Junior field geologist

Jun 2015 – Aug 2016

- Soil and rock sampling in the European Russian North for the creation of the state geological map with a scale of 1:200000.
- Field preparation of samples for ICP-MS analysis.
- Making maps of uranium and gold dispersion aureoles in the ArcGIS program.

Publications in peer-reviewed journals indexed by WoS and Scopus

- **Kuznetsov, M.V.**, Savatenkov, V.M., Sheldrick, T., Shpakovich, L.V. (2023) Early Cretaceous trachytes and basement rocks from northeastern Mongolia: A Sr-Nd-Pb isotope study. *Frontiers in Earth Sciences* 11:1156559. doi:10.3389/feart.2023.1156559.
- **Kuznetsov, M.V.**, Savatenkov, V.M. (2023) Melting modeling of mixed peridotitic and mafic lithologies at shallow depths of the continental metasomatized lithospheric mantle: Implementation for the Early Cretaceous volcanic rocks of Eastern Mongolia. *Vestnik of Saint Petersburg University. Earth Sciences* 28(3). 596-617. doi:10.21638/spbu07.2023.309.
- Yarmolyuk, V.V., Savatenkov, V.M., Kozlovsky, A.M., Stupak, F.M., **Kuznetsov, M.V.**, Shpakovich, L.V. (2023) Conditions of rock formation and magma sources of the Late Cenozoic Udokan volcanic plateau. *Petrology* 31, 1-24. doi:10.1134/S0869591123010101.
- **Kuznetsov, M.V.**, Savatenkov, V.M., Shpakovich, L.V., Yarmolyuk, V.V., Kozlovsky, A.M. (2022) Evolution of the Magmatic Sources of the Eastern Mongolian Volcanic Area: Evidence from Geochemical and Sr–Nd–Pb Isotope Data. *Petrology* 30, 441-461. doi:10.1134/S0869591122050034.
- Yarmolyuk, V.V., Kozlovsky, A.M., Savatenkov, V.M., Kudryashova, E.A., **Kuznetsov, M.V.** (2020) Late Mesozoic Eastern Mongolia Volcanic Area: Structure, Magmatic Associations, and Sources of Melts. *Petrology* 28, 491-514. doi:10.1134/S0869591120060053.