

## АВТОРЛАР ТУРАЛЫ МӘЛІМЕТТЕР

### СВЕДЕНИЯ ОБ АВТОРАХ

### INFORMATION ABOUT AUTHORS

**Abisheva A.K.** – The 2nd year Ph.D student of the Department of Civil Engineering, L.N. Gumilyov Eurasian National University, Kazhimukan street 13a, 3 teaching and administrative building, Nur-Sultan, Kazakhstan. E-mail: [abish\\_assem@mail.ru](mailto:abish_assem@mail.ru).

**Akhmedov Askar** - master's degree, 1st year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E-mail: [askar.1230@mail.ru](mailto:askar.1230@mail.ru)

**Akhmetova Ardak** - Doctor of Technical Sciences, Associate Professor of the Department of Artificial Intelligence and Big Data, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E-mail: [ardak\\_66@mail.ru](mailto:ardak_66@mail.ru)

**Aldanov Nursultan**- master's degree, 2nd year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E-mail: [aldanovn@gmail.com](mailto:aldanovn@gmail.com) (Author for correspondence).

**Aldungarova A.K.** – Ph.D, associate professor of School of Architecture and Construction, D. Serikbayev East Kazakhstan Technical University, Protozanov Street 69, Ust-Kamenogorsk, Kazakhstan. E-mail: [liya\\_1479@mail.ru](mailto:liya_1479@mail.ru) (Author for correspondence).

**Alibekova N.T.** - Ph.D, acting associate professor of the Department of Construction, L.N. Gumilyov Eurasian National University, Kazhimukan street 13a, 3 teaching and administrative building, Nur-Sultan, Kazakhstan. E-mail: [nt\\_alibekova@mail.ru](mailto:nt_alibekova@mail.ru).

**Amirkhanova Gulshat**- senior lecturer of the Department of Artificial Intelligence and Big Data, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E-mail: [gulshat.aa@gmail.com](mailto:gulshat.aa@gmail.com)

**Amiyev Bolatbek** - master's degree, 2nd year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E-mail: [bolatbekamiev@gmail.com](mailto:bolatbekamiev@gmail.com) (Author for correspondence).

**Bakhyt Meirzhan Nurboluly** - 2nd year master's degree, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E-mail: [miko\\_98\\_b@mail.ru](mailto:miko_98_b@mail.ru)

**Belgibaev Baurzhan** - Doctor of Technical Sciences, Associate Professor of the Department of Artificial Intelligence and Big Data, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E-mail: [bbelgibaev@list.ru](mailto:bbelgibaev@list.ru)

**Bugaev A.B.** - Doctoral student of D.Serikbayev EKTU, Ust-Kamenogorsk, Kazakhstan, E-mail: [andbugaev@mail.ru](mailto:andbugaev@mail.ru)

**Dudkin M.V.** – Professor, Doctor of Technical Sciences, D.Serikbayev EKTU, Ust-Kamenogorsk, Kazakhstan, E-mail: [vas\\_dud@mail.ru](mailto:vas_dud@mail.ru)

**Dudkina E.L.** – Researcher, Ust-Kamenogorsk, Kazakhstan, E-mail: [vas\\_dud@mail.ru](mailto:vas_dud@mail.ru)

**Esfermesov Didar Kairatovich** - PhD, Associate Professor, East Kazakhstan Technical University, Ust-Kamenogorsk, Kazakhstan, E-mail: [didar.esfermesov@mail.ru](mailto:didar.esfermesov@mail.ru) (Author for correspondence).

**Gulnur Tyulepberdinova** - professor, KazNU named after Al-Farabi, Almaty, Kazakhstan, E-mail: [tyulepberdinova@gmail.com](mailto:tyulepberdinova@gmail.com)

**Jiri CHLACHULA**- Institute of Geocology and Geoinformation, Adam Mickiewicz University, B. Krygowski-ego 10, Poznań, Poland, Laboratory for Palaeoecology, Tomas Bata University. TGM 5555, 762 01 Zlin, Czech Republic; E-mail: [Altay@seznam.cz](mailto:Altay@seznam.cz)

**Kalibay Kanagat** - master's degree, 2nd year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E-mail: [kalibay.kanagat@gmail.com](mailto:kalibay.kanagat@gmail.com)

**Kalkaman Raiymgul Merzhankyzy**- master's student, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E-mail: [raiymgul.kalkaman@gmail.com](mailto:raiymgul.kalkaman@gmail.com) (Author for correspondence).

**Kemelkhanova Uzim**- 2st year master's student of the specialty 7m01506-geography of the Department of Ecology and geography of EKTU named after S. Amanzholov, Ust-Kamenogorsk, E-mail: [kemelkhan@mail.ru](mailto:kemelkhan@mail.ru)

**Kenzhebeyeva Madina Ganikyzy** - master's student, D.Serikbayev East Kazakhstan technical university, Oskemen c., Kazakhstan. E- mail: [kenzhebeyeva0309@gmail.com](mailto:kenzhebeyeva0309@gmail.com)

**Kim A.I.** - PhD, Associate Professor of D.Serikbayev EKSTU, Ust-Kamenogorsk, Kazakhstan, E-mail: [alinakim3107@mail.ru](mailto:alinakim3107@mail.ru)

**Koilybekova Anelya** - master's degree, 1st year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E- mail: [anelya.koilybekova11@gmail.com](mailto:anelya.koilybekova11@gmail.com)

**Kozhanova Gulnar**- master's degree, 2nd year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E- mail: [kozhanovag2016@mail.ru](mailto:kozhanovag2016@mail.ru) (Author for correspondence).

**Kulmamirov Serik Algozhaevich** - senior teacher, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E- mail: [kaznukulma@bk.ru](mailto:kaznukulma@bk.ru)

**Mazhit Daniyar Bakhtiyaruly**-2nd year master's degree, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E- mail: [mazhitov\\_d@mail.ru](mailto:mazhitov_d@mail.ru)(Author for correspondence).

**Mimura M.** - Professor of Higher School of Engineering, Kyoto University, Kyoto, Japan, E-mail: [mimura\\_mamoru.3r@kyoto-u.ac.jp](mailto:mimura_mamoru.3r@kyoto-u.ac.jp)

**Moldagalieva Aitolkyn Esenkulovna**- Candidate of Geographical Sciences, Associate Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E- mail: [moldagalieva.aitolkyn2016@gmail.com](mailto:moldagalieva.aitolkyn2016@gmail.com)

**Moldakhanov B.A.** – Doctoral student of D.Serikbayev EKTU, Ust-Kamenogorsk, Kazakhstan, E-mail: [bek\\_m78@mail.ru](mailto:bek_m78@mail.ru) (Author for correspondence).

**Mukhametkalieva Ayazhan Mukhametkazyevna**-1st year master's student of the specialty 7m01506-geography of the Department of Ecology and geography of EKV named after S. Amanzholov, Ust-Kamenogorsk, E-mail: [aiajan@mail.ru](mailto:aiajan@mail.ru)

**Nugmanova Salima**- Doctor of Technical Sciences, Associate Professor of the Department of Artificial Intelligence and Big Data, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E-mail: [nugm\\_s@mail.ru](mailto:nugm_s@mail.ru)

**Nurbekova Nazira Sailaubekovna**- master's student of the 2nd year of the Department of Ecology and geography of the University. S. Amanzholova, specialty 7M01506-geography, Ust-Kamenogorsk, E-mail: [nurbekova@mail.ru](mailto:nurbekova@mail.ru)

**Omirezak Azamat**- master's degree, 2nd year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E-mail: [u.azamat.1997@gmail.com](mailto:u.azamat.1997@gmail.com)(Author for correspondence).

**Sagymbekova Elfira Sagymbekkyzy** - master's student, D.Serikbayev East Kazakhstan technical university, Oskemen c., Kazakhstan. E- mail: [elfira.sagymbekova@mail.ru](mailto:elfira.sagymbekova@mail.ru)

**Sansyzbay Abilgazy Serzhanuly** - 2nd year master's degree, Al-Farabi Kazakh National University, Almaty, Kazakhstan, E- mail: [abilgazy.98kz@mail.ru](mailto:abilgazy.98kz@mail.ru)

**Shayakhmetova Akbota** - master's degree, 2nd year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E- mail: [saadatovna@gmail.com](mailto:saadatovna@gmail.com)(Author for correspondence).

**Shoyenbayeva Akerke Serikkyzy** – Master's student, East Kazakhstan Technical University, Ust-Kamenogorsk, Kazakhstan, E-mail: [akerksha\\_29.05.98@mail.ru](mailto:akerksha_29.05.98@mail.ru)

**Tleubayeva A.K.** - Candidate of technical sciences, Acting associate professor of the Department of Construction, L.N. Gumilyov Eurasian National University, Kazhimukan street 13a, 3 teaching and administrative building, Nur-Sultan, Kazakhstan. E-mail: [akmaral\\_alim@mail.ru](mailto:akmaral_alim@mail.ru).

**Tokhtarkhanov Sultan** - master's degree, 2nd year, KazNU named after Al-Farabi, Almaty, Kazakhstan, E-mail: [sultan.tokhtarkhanov@gmail.com](mailto:sultan.tokhtarkhanov@gmail.com)(Author for correspondence).

**Zhensikbaeva Nazgul Zhanyshbekovna**- Department of Ecology and Geography of S.Amanzholov VSU, PhD Doctor, Head of the Department of Ecology and Geography, Ust-Kamenogorsk, E-mail: [naz\\_zanibek@mail.ru](mailto:naz_zanibek@mail.ru) (Author for correspondence).