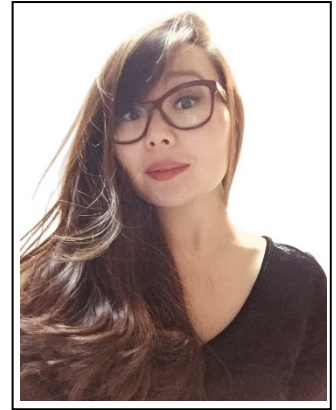


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Senior Researcher, Assist. Prof., Dr. Gulden Ormanova

Astana IT University, Astana, Kazakhstan

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Paper Title: Kazakhstan's Fuel-Energy Flows (2021-2023): Energy Balances and Sankey Visualizations by LEAP

Bio:

Dr. Gulden Ormanova is a Senior Researcher at Astana IT University, as well as at the Nazarbayev University, NLA. She holds a Ph.D. in Science, Engineering, and Technology from Nazarbayev University, an M.Sc. in Geoinformation Sciences from the University of West Hungary, and an M.Sc. and B.Sc. in Engineering Sciences and Technologies from Al-Farabi Kazakh National University.

Her doctoral research focused on the chemical characterization and source apportionment of atmospheric fine particulate matter (PM_{2.5}). Dr. Ormanova is an expert developer of the *Low Emissions Analysis Platform (LEAP)* energy system model for Kazakhstan. She is interested in developing simulation models that provide insights into policy implementation pathways for the reduction of GHG emissions.

Dr. Ormanova has research experience with international organizations such as the ADB, the UNDP, and USAID. She currently serves as the Principal Investigator of the Ministry of Education and Science of Kazakhstan project IRN AP27510733 (2025–2027), “*Analysis of chemical characteristics and sources of PM_{2.5} for health impact assessment in the industrial city of Qaragandy, Central Kazakhstan*”.