



Anara Zainab

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EDUCATION AND TRAINING

01/09/2022 – CURRENT Khorog, Tajikistan

BACHELOR OF SCIENCE IN EARTH AND ENVIRONMENTAL SCIENCES (CGPA: 3.81/4.00) University of Central Asia

08/02/2025 – 24/04/2025 Prague, Czechia

ERASMUS+ EXCHANGE STUDENT (GPA: 4.00/4.00) Czech University of Life Sciences

WORK EXPERIENCE

TEACHING ASSISTANT – PHYSICS – UNIVERSITY OF CENTRAL ASIA – 01/10/2025 – 31/12/2025 – KHOROG, TAJIKISTAN

- Check quizzes and homework, and manage Excel-based grade records to ensure data accuracy.
- Hold weekly office hours to clarify physics concepts and support student performance.
- Coordinate with the instructor to monitor progress and identify improvement areas.

TEACHING ASSISTANT – PHYSICS – UNIVERSITY OF CENTRAL ASIA – 01/11/2024 – 31/12/2024 – KHOROG, TAJIKISTAN

- Checked assignments and maintained grade records, held weekly office hours to support students, and coordinated with the instructor to monitor academic progress.

CLIMATE CHANGE INTERN – AGA KHAN AGENCY FOR HABITAT – 01/06/2024 – 31/08/2024 – DUSHANBE, TAJIKISTAN

- Analyzed climate change reports and contributed to departmental strategy documentation.
- Collaborated with GIS, geology, and hydrology teams on sustainable practices.
- Developed educational materials for Khorog students, simplifying complex data.

RESEARCH ASSISTANT – UNIVERSITY OF CENTRAL ASIA – 01/08/2023 – 31/12/2023 – KHOROG, TAJIKISTAN

- Led a project on crop-yield prediction using GIS and remote sensing.
- Collected and analyzed Landsat/Sentinel data to model yields.
- Published a review of precision agriculture techniques.

ADMIN & FINANCE ASSISTANT – REGIONAL SCHOOL DEVELOPMENT UNIT GUPIS, AKESP – 01/06/2023 – 31/08/2023 – GILGIT, PAKISTAN

- Managed financial operations and improved record-keeping efficiency.
- Assisted with audit preparation and policy compliance.
- Supported completion of education projects and initiatives.

PUBLICATIONS

[**A Review of Crop Yield Prediction Models based on Crop Phenology Using Satellite Imagery and Environmental Data**](#)

Authors: Anara Zainab | **Journal Name:** 2024 X International Conference on Information Technology and Nanotechnology (ITNT) | **Publisher:** IEEE

[**A Review of Eco-Environmental Changes and Their Impact on Ecology**](#)

Authors: Anara Zainab (Co-Author) | **Journal Name:** 2024 X International Conference on Information Technology and Nanotechnology (ITNT) | **Publisher:** IEEE

HONOURS AND AWARDS

Certificate of completion for participating in NASA's ARSET online training, covering practical use of satellite Earth Observation data and tools for environmental applications. (2026)

Dean's Honor List (2022 – 2025)

Erasmus+ Mobility Programme Scholar (2025)

ESRI Certificate – Spatial Data Science: The New Frontier in Analytics (6 weeks, completed October 2025)

Certificate of Service Recognition, Bridge Summer Program — Mentor & Co-Camp Lead (2024 & 2025)

PROJECTS

Spatiotemporal Dynamics and Hazard Susceptibility of Glacial Lakes in the Upper Ghizer Basin, Northern Pakistan: A Remote Sensing-Based Assessment with Case Evidence from Talidas Lake (Ongoing)

Assess Talidas Lake GLOF risk using terrain analysis, climate data, satellite imagery, and machine learning for hazard prioritization.

Bridge Summer Program – Education and Leadership Initiative (09/07/2025 – 24/07/2025)

- Served as Camp Co-Lead for the Bridge Summer Program organized by AKESP, a community initiative providing children from remote areas access to quality education.
- Supervised and guided mentors throughout the program.
- Delivered English reading and comprehension sessions to enhance students' academic readiness.
- Developed leadership, teamwork, and coordination skills while managing a two-week student program.

CREATIVE WORKS

Talidas – Sustainable Data & Innovation Platform

Talidas is a web-based platform focused on sustainability-driven data solutions and digital innovation. I contributed to the design, development, and deployment of the platform, working on user experience, content structure, and technical implementation to support data-driven decision-making and environmental impact initiatives.

Link <https://talidas.iocean.cc/>

ECOIF – Environmental & Climate Innovation Framework

ECOIF is an online platform dedicated to environmental and climate innovation. The project involved building and maintaining a web presence to showcase sustainability frameworks, initiatives, and innovation-focused solutions. My role included platform development, content integration, and ensuring accessibility and usability for a global audience.

Link <https://ecoif.iocean.cc/>

SKILLS

Remote Sensing | Spatial Analysis and Visualisation | ArcGIS | QGIS | Google Earth Engine | ArcGIS Pro | Satellite Images Analysis | Google Earth Pro | Python | Latex | R | Canva | Microsoft Excel | Data analysis | JavaScript | HTML & CSS

RECOMMENDATIONS

Mohssen Moazzen / Academic Reference

Chair of the Department of EES, Professor SAS, University of Central Asia

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