

Curriculum Vitae

17/01/2024

BOUZNAD Imad Eddine



Address: Cheraia City, Collo ,Skikda Bp 21036

Phone number: +213 670 05 84 23

Email : bouznad.imad@gmail.com / i.bouznad@mail.univ-djelfa.dz

Date and place of birth: May 4, 1984, in Collo – Skikda-Algeria

Marital statuts: Married

Education

Degrees and Achievements:

1. *Habilitation to Supervise Research (June 2020).*
2. *Doctorate in Sciences : Hydrogeology (May 2017).*
3. *Master's Degree in Applied Geology, specialization: Hydrogeology (January 2010).*
4. *Engineer Degree in Applied Geology, specialization: Hydrogeology (June 2007).*
5. *Bachelor's Degree in Science, June 2002.*

Research Areas and Skills

- **Research Areas :** *Research areas: My research interests primarily focus on water resource management, climate change, drought, floods, and time series trend analysis.*
- **Computer Tools:** *WEAP, ArcGIS, Ipi2win, R software.*
- **Language Proficiency:** *Arabic, French - very good. English - moderate.*

Professional Experience

- *Assistant Professor at the University of Guelma since September 2023:*
- *Assistant Professor at the University of Djelfa since December 2011 to September 2023:*
- Undergraduate Courses:** *hydrological modeling, water resources mobilization and management, earth and universe, physical environments, bioclimatology, urban ecosystems, and climate chang, Geophysics, Geostatistics.*
- Postgraduate Courses:** *Water resources management modeling, Mapping and remote sensing using Google Earth Engine, Climate change and time series trend analysis, Training on WEAP software.*
- *One year at the National Geophysics Company (ENAGEO) for a mission in gravity data acquisition and preprocessing.*

Scientific Events

- **International Conferences:**
 - ✓ *1st International Water Colloquium, October 25-27, 2010 in Annaba. "Diagnosis of Water Resources in the Southern Valley of Oued Righ, Ouargla Province." (oral presentation).*
 - ✓ *1st International Colloquium on the Geology of the Algerian Sahara: Mineral,*

- Hydrocarbon, and Water Resources, December 05-07, 2010 in Ouargla. "Attempt at Integrated Water Resources Management in the Southern Valley of Oued Righ, Ouargla Province." (oral presentation).*
- ✓ *International Seminar on Water Resources in the Sahara, January 19-20, 2011 at Kasdi Merbah University, Ouargla. "Water Needs, Utilization, and Demand in the Southern Valley of Oued Righ, Ouargla Province." (oral presentation).*
 - ✓ *The first International Seminar on Hydrogeology and Environment (SIHE2013), Ouargla, November 05-07, 2013. "Water Demand Modeling Using WEAP21 Software and Attempt at Integrated Management in the Municipality of Had Sahary, Djelfa Province."*
 - ✓ *Third International Colloquium on the Geology of the Sahara: Mineral Resources, Energy, Hydrocarbons, and Water, Ouargla, December 09-10, 2015. "Development of a Geographic Information System to Identify Aquifer Zones and Optimal Drilling Locations Based on Vertical Electrical Sounding, Case Study of the Ain Oussara Region, Djelfa Province."*
 - *The fourth International Colloquium on Land and Water, Annaba, May 17-19, 2016. "Water Resources and Integrated Management Using the WEAP Decision Support System, Case Study of Djelfa Province."*

Publications :

- ✓ **Zegait, R., Bouznad, I.E.,** Remini, B. et al. Comprehensive model for sustainable water resource management in Southern Algeria: integrating remote sensing and WEAP model. *Model. Earth Syst. Environ.* (2023). <https://doi.org/10.1007/s40808-023-01826-y>
- ✓ Derradji, T., Belksier, MS., **Bouznad, IE** Guastaldi, E. et al. Spatio-temporal drought monitoring and detection of the areas most vulnerable to drought risk in Mediterranean region, based on remote sensing data (Northeastern Algeria). *Arab J Geosci* 16, 1 (2023). <https://doi.org/10.1007/s12517-022-11060-y>
- ✓ **Bouznad, IE.,** Guastaldi, E., Zirulia, A. et al. Trend analysis and spatiotemporal prediction of precipitation, temperature, and evapotranspiration values using the ARIMA models: case of the Algerian Highlands. *Arab J Geosci* 13, 1281 (2020). <https://doi.org/10.1007/s12517-020-06330-6>
- ✓ **Bouznad I.E.,** Elahcene O., Belksier M.S. 2020. Management model for water demand using the WEAP tool: Case of Setif Province – Algerian highlands. *Journal of Water and Land Development*. No. 45 (IV–VI) p. 19–28. [DOI:10.24425/jwld.2020.133042](https://doi.org/10.24425/jwld.2020.133042).
- ✓ ELAHCENE O, **BOUZNAD I-E,** BOULEKNAFT Z .,2019: Erosion and solid transport processes in the Isser Wadi watershed, Algeria. *Euro-Mediterranean Journal for Environmental Integration* <https://doi.org/10.1007/s41207-019-0113-1>.
- ✓ ELAHCENE O, **BOUZNAD I-E,** BENDJEDOU M-S, BOULEKNAFT Z .,2019: Study of Solid Transport in Suspension in a Semi-arid Catchment: Case of Boukadir Wadi, Tipaza, Algeria. Springer Nature Switzerland AG https://doi.org/10.1007/978-3-030-01572-5_14.
- ✓ **BOUZNAD I E .,** Zouini D ., Nour I.,Fayçal Khelfaoui.2016. Essay of Modelling water resources management of the Oued Righ watershed (Algeria) using the WEAP decision support system. *Rev. Sci. Technol., Synthèse* 33: 56 - 71 (2016.).

Professional Training :

- ✓ *Participation in the training course on "Characterization of Interactions between Surface Water and Groundwater" organized in Tunis by JICA (Japan International Cooperation Agency), INAT (National Agricultural Institute of Tunisia), and ATCT (Agence Tunisienne de Coopération Technique) from November 04 to 22, 2013, as part of South-South cooperation.*

- ✓ *Participation in the workshop on Integrated Water Resources Management for Africa organized in Tunis by **JICA** (Japan International Cooperation Agency) and INAT (National Agricultural Institute of Tunisia) from August 31 to September 04, 2015.*
- ✓ *Participation in the Geostatistics training organized by **OSS** (Observatoire du Sahara et du Sahel) in partnership with IRA (Institut des Régions Arides) de Médenine as part of the WAADIS-MAR project funded by the European Commission, from May 23 to 26, 2016 in Zarzis, Tunisia.*
- ✓ *Participation in the Geophysics training organized by **OSS** (Observatoire du Sahara et du Sahel) in partnership with IRA (Institut des Régions Arides) de Médenine as part of the WAADIS-MAR project funded by the European Commission, from May 30 to June 02, 2016 in Zarzis, Tunisia.*

Expertise and Research Projects :

- ✓ *Expertise mission within the Algerian **Ministry of Water Resources** on the feasibility of the WEAP tool for updating the national water plan (from July 8th to July 12th, 2018).*
- ✓ *Conducted a training session on water resources management modeling using the WEAP tool as a trainer for technical staff from the **Ministry of Water Resources** and Water Security (from December 12th to December 16th, 2021).*
- ✓ *Expertise mission for the development of a Risk and Vulnerability Analysis (RVA) for the pilot province of Djelfa (from February to June 2022), as part of the Climate Governance Strengthening Project (ClimGov). Collaboration between the German Cooperation (**GIZ**) and the Algerian Ministry of Foreign Affairs (MAE).*
- ✓ *Expertise mission on strengthening Climate Governance for the National Climate Change Directorate (Clim.Gov), developing climate-compatible projects at the local level in Djelfa (from July to November 2022), as part of the Climate Governance Strengthening Project (ClimGov). Collaboration between the German Cooperation (**GIZ**) and the Algerian Ministry of Foreign Affairs (MAE).*
- ✓ *Research associate in the University Training Research Project (PRFU) (2018/2021): Impacts of climate variability, anthropogenic activities, planning, and **management on water resources** in the highlands. (Code: A17N01UN17012018000).*
- ✓ *Research associate in the University Training Research Project (PRFU) (2022/2025): **Hydrogeophysical** investigation for the management of water resources in the Oasis systems of southeastern Algeria. (Code: E04N01UN300120230004).*