

# CURRICULUM VITAE

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## 1. EDUCATION

1997 : Bachelor of Natural and Life Sciences , Algeria.

1997-1999 : Common core earth sciences, Badji Mokhtar University, Annaba, Algeria.

1999-2002 : Engineer in Applied Geology, Hydrogeology Option, University of Annaba Algeria

2003-2006 : Magister in Hydrogeology, Badji Mokhtar University, Annaba. Algeria

2017 : Doctor of Science, D.sc Badji Mokhtar University, Annaba Algeria

2020 : University habilitation PD in Hydrogeology. Badji Mokhtar University, Annaba, Algeria

## 2. COMPLETED THESES

1. BOULABEIZ M. (2006). Master's thesis, University of Annaba "Evolution of chemical elements and risk assessment of groundwater pollution: Case of the Collo aquifer, Northeast Algeria."
2. BOULABEIZ M (2017). Doctoral thesis in Science (DSc), University of Annaba, Algeria: "Evaluation of pollution in the Collo Plain, aquifer-river interaction."
3. University Accreditation Diploma in Hydrogeology (2020). Badji Mokhtar University. Annaba.

## 3. EDUCATIONAL AND RESEARCH ACTIVITIES

### 3.1. TAUGHT COURSES

General Geology

Hydrogeology, Hydrology, Hydro-climatology

GIS and Cartography

Natural Water Treatment

Geostatistics

Basic Concepts of Physics and Energy

Groundwater and Surface Water Pollution

### 3.2. MASTER'S THESIS SUPERVISIONS

- Evolution and mechanism of groundwater salinization: case of the alluvial plain of Remila, Khenchela province. June 2011. KEBBACHE R.
- Study and detection of groundwater pollution: case of the Mellagou region, Bouhmama. June 2011. HASSAD S.
- Effect of anthropogenic activities on groundwater quality in the alluvial plain of Bouhmama (W of Khenchela). June 2012. BELKOUM N, AGGOUN M.
- Hydrogeochemistry and nitrogen pollution of groundwater in the Esbikha wetland area (El Mahmel-W. Khenchela). June 2015. MARIR H, DJEMOUI M.
- Contribution to the hydrochemical study of groundwater in the Mellagou plain (Bouhmama, NW Khenchela). June 2015. BOUALI H, BERKANE W.
- Effect of agriculture on groundwater quality: case of the coastal plain of Collo, W of Skikda. June 2015. BOULABEIZ A, ZOUAOUI NE.
- Evaluation of groundwater vulnerability to pollution: case of the El Mahmel aquifer, Khenchela. June 2017. KHELIFI A, OUNISSI O.
- Suitability of groundwater for irrigation: case of the Mellagou plain (Bouhmama, Khenchela). June 2017. SAIDI NM, DJELLOUL M.
- Estimation and mapping of groundwater vulnerability and contamination risk: case of the Garaet El Tarf sub-basin. June 2018. BELHADDAD Y, BAALI A.
- Estimation of groundwater vulnerability to agricultural pollution in semi-arid areas: case of the F'kirina plain (Oum El Bouaghi – Algeria). June 2018. BOUCHEMAA N, GHEZAL A.
- Mapping of intrinsic vulnerability using the DRASTIC method coupled with Geographic Information System (GIS): case of the Remila plain - Khenchela. June 2018. BOUGUERNIZEN S, MEDERAG NAROU S.
- Delimitation of potential groundwater zones using remote sensing, GIS, and multi-criteria decision-making processes AHP. September 2019. LAKHZOUM N, SAHRAOUI Z.
- Agricultural pollution risk on groundwater: case of the Garaet El Tarf watershed. June 2018. RAHMOUNE NE, CHERMAT M.
- Contribution to the study of groundwater contamination by nitrates for agricultural use in the El Mahmel plain - W Khenchela. June 2021. RAMDANI AM, BELKHERCHOUCHE A.
- Multi-criteria mapping of artificial recharge potential of groundwater in semi-arid regions using remote sensing and GIS tools (Case of the Garaet ElTarf region, NE Algeria). June 2021. BEKHOUCHE N, SELAMA M.
- Contribution to the study of groundwater contamination by agricultural nitrates in the El Mahmel Khenchela plain. June 2021; RAMDANI A. BELKHARCHOUCHE A.
- Contribution to the study of the mineralization of groundwater in the watershed of wadi L'Arab - Khenchela- (NE Algeria). June 2023. BOUKHALFA A DJEMAA B MOUSSAOUI A.
- Vulnerability of groundwater and protection perimeter in the Ank Djemel watershed (NE Algeria). June 2023. RIHIA I, CHOUFAOUI C.

### 3.3 PEDAGOGICAL RESPONSIBILITIES

- June 2012-June 2015: Specialty Head for Water and Environment (L3 M03). Institute of Natural Sciences and Life, Department of Ecology and Environment, University Center of Khenchela.
- Since December 2017: Specialty Head for Master in Ecosystem Protection, Water, and Soil. Faculty of Natural Sciences, Department of Ecology.
- Starting from June 2020: Member of the Scientific Council of the Department of Ecology and Environment (University of Khenchela).
- Vice President of the Discipline Council of the Department of Ecology and Environment.
- Starting from 2024: President of the Scientific Council of the Department of Ecology and Environment.

#### 4. PUBLICATIONS AND INTERNATIONAL COMMUNICATIONS

##### 4.1. *Journals and magazines with impact factor.*

1. Boulabeiz Mahrez, Houha Belgacem, Bousnoubra Houria, Agaguena Siham (2017), A Gis-based drastic model for assessing groundwater vulnerability in the coastal plain of Collo, Northeastern Algeria. *Journal of Biodiversity and Environmental Sciences (JBES)* 10:4, p. 81-89.
2. Mahrez Boulabeiz, Stefan Klebingat, Belgacem Houha, Bousnoubra Houria (2018), GIS-based GALDIT method for vulnerability assessment to seawater intrusion of the Quaternary coastal Collo aquifer (NE-Algeria). *Arabian Journal of Geosciences*, 11:71 [doi.org/10.1007/s12517-018-3400-2](https://doi.org/10.1007/s12517-018-3400-2)
3. Mahrez Boulabeiz, Stefan Klebingat, Siham Agaguena (2019), A GIS-Based GOD Model and Hazard Index Analysis: The Quaternary Coastal Collo Aquifer (NE-Algeria). *Groundwater Journal* Vol. 57, No. 1. [doi: 10.1111/gwat.12824](https://doi.org/10.1111/gwat.12824)
4. Saadali B., Derradji E.F., Hafid F., Bouroubi Y., Haied N., Boulabeiz M. (2021) Qualitative Appreciation of Water Resources in a Preserved Environment Under Anthropic Threat. In: Ksibi M. et al. (eds) *Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition)*. EMCEI 2019. Environmental Science and Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-030-51210-1\\_252](https://doi.org/10.1007/978-3-030-51210-1_252)
5. Berkani, C.; Boulabeiz, M.; Dali, N.; Sedrati, A.; Houh, B. Hydrogeochemical modeling of groundwater of the quaternary aquiferin Mellagou valley -Bouhmama- (northeastern Algeria). *Carpathian J. Earth Environ. Sci.* 2023, 18, 115–126. [DOI:10.26471/cjees/2023/018/245](https://doi.org/10.26471/cjees/2023/018/245)

##### 4.2. *Seminars and other communications.*

1. BOUSNOUBRA, H; BOULABEIZ, M (2005) Characterization of groundwater in the Collo Plain (W.Skikda). World Environment Day organized at the National School of Military Health, Ain Naadja, June 5, 2005. Oral presentation.
2. BOULABEIZ, M (2010) Evaluation of groundwater pollution risk (case of the Collo aquifer, NE Algeria) 1st International Water Conference CIE 2010, Annaba, October 25-27, 2010. Oral presentation.
3. BOULABEIZ, M; BELKOUM, N; AGGOUNE, M (2012) Effect of anthropogenic activities on groundwater quality in the alluvial plain of Bouhmama (W Khenchela). 3rd International Symposium on Earth and Water-Annaba. Oral presentation.
4. BOULABEIZ, M; AGAGUENIA, S (2012) Coastal aquifer pollution, use, and challenges: Case of the Collo alluvial aquifer (NE Algeria) International Symposium on Governance of Coastal Territories & Integrated Coastal Zone Management (ICZM) in the Mediterranean. Annaba, May 21 & 22, 2012. Oral presentation.
5. BOULABEIZ, M; HOUHA, B; BOUSNOUBRA, H (2013) Mapping vulnerability to pollution of the groundwater aquifer of Collo (NE Algeria). International Seminar on Hydrogeology and Environment, November 5-7, 2013, Ouargla. Oral presentation.
6. BOULABEIZ, M; HOUHA, B; BOUSNOUBRA, H (2014) Groundwater quality and pollution risk in coastal environments: case of the Collo aquifer (NE Algeria). 1st International Symposium on Hydrogeology and Geothermal Energy. November 11 & 12, 2014. University of Guelma. Oral presentation.
7. BOULABEIZ, M (2017) Estimation of vulnerability to marine intrusion of the coastal aquifer of Collo (Northeast Algeria). Oral presentation. Scientific Day "Geology, Water Resources and Environment" University of Oum Elbouaghi, November 28, 2017.

8. Member of the organizing committee of the national seminar: Water, Environment, and Biodiversity. Khenchela, November 8 & 9, 2011.
9. Member of the organizing committee of the national seminar on Biotechnology, Biodiversity, and Sustainable Development, SNBBDD February 27 & 28, 2013- Khenchela.
10. Member of the organizing committee of the national seminar, Agricultural Challenges, SNDA. May 8 & 9, 2013 - Khenchela.
11. Supervision of the Doctoral Days of the Faculty of Natural and Life Sciences - University of Khenchela, April 23 & 24, 2018.
12. President of the Algerian National Group IAEG. (International Association of Engineering Geology and Environment)
13. President of the international symposium on georesources, climate change, and sustainable development I2CGSD 2022 (May 23, 2022) University of Khenchela.
14. BOULABEIZ, M; AOUIDANE, L; AGAGUENIA, S (2022) Soil salinity risk mapping (case study: Garaet Tarf watershed, NE Algeria). First International Seminar on Biodiversity in Algeria, Richness, and Conservation ISBA'1 RC September 25-26, 2022 University of Oum ElBouaghi.
15. BOULABEIZ, M; AOUIDANE, L; AGAGUENIA, S (2022) Multi-criteria mapping of artificial recharge potential of groundwater in semi-arid regions using remote sensing and GIS tools (Case study: Garaet Tarf region, NE Algeria). 1st International Hybrid Seminar titled: "Climate Change, Georesources, and Sustainable Development (I2CGSD 2022)" at the University of Khenchela.

## **5. AREAS OF INTEREST.**

- Geographic Information System (GIS) and Remote Sensing, Environmental Applications
- Hydrogeology of Coastal Aquifers
- Quality and Protection of Surface and Groundwater
- Geostatistics
- Impact of Climate Change on Water Resources in Algeria

## **6 RESEARCH AND TRAINING INTERNSHIPS**

- 2015-2016: Thesis Completion Internship (PNE), Department of Geological Engineering and Hydrogeology, RWTH Aachen University, Germany (utilization of GIS for mapping groundwater vulnerability to pollution).
- Project Manager for PRFU, 2022. Application of remote sensing and GIS in the identification and protection of groundwater resources in the Constantine highlands; Code: D00L02UN400120220002