

Curriculum Vitae

Assist. Prof. Dr. Nabaz Ibrahim Mohammed

(University of Duhok)

« **Hydrologist and Environmentalist** »

- Research orientations : « **hydrochemistry of groundwater and surface water, water resource management, groundwater vulnerability** »
- Teaching orientations : « **Hydrology, Hydrogeology, Ecology** »

Personal Data

Surname: MOHAMMED

First name: Nabaz

Gender: Male

Marital Status: Married

Date and Place of Birth: 14/05/1978, Duhok, Kurdistan Region, Iraq

Nationality: Iraqi

Academic Status: Assistant professor at College of Agricultural Engineering Sciences, University of Duhok.

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Education and Qualifications

(A) University

1999 - 2003: **BSc.** in “ Forestry Science” from Forestry Dept. College of Agriculture, **Duhok University - Kurdistan – Iraq.**

(B) Higher education

2006 - 2007: **MSc.** in an“ Environmental Forestry” from School of Environment and Natural Resources, **University of Wales/Bangor, United Kingdom.**

2010 - 2014: **PhD.** in “Hydrogeology and Environment” from School of Natural Resources and Environment, **University of Bordeaux, France.**

Employment

2003–2006: Assistant Researcher, Dept, of Forestry. College of Agriculture, University of Duhok, Kurdistan Region, Iraq.

2007–2010: Assistant Lecturer, Dept. of Forestry, College of Agriculture, University of Duhok, Kurdistan Region, Iraq.

From **June 2014 to June 2020:** Lecturer at college of Agricultural Engineering Sciences, Recreation & Ecotourism Dept., University of Duhok.

Since **June 2020:** Assistant Professor at college of Agricultural Engineering Sciences, Recreation & Ecotourism Dept., University of Duhok.

October 1st 2017 to October 24, 2022: Head of Recreation & Ecotourism Dept., College of Agricultural Engineering Sciences, University of Duhok.

Since **October 24, 2022:** Vice president for student affairs, University of Duhok.

Professional Experience

1. Taught undergraduate courses in Forest Ecology and Watershed Management (from 2008-2010) in Forestry department, College of Agriculture.
2. Taught undergraduate course in Watershed Management (from 2008-2010) in Soil and water department, College of Agriculture.
3. Teaching undergraduate with courses including Meteorology, hydrology, water resources management, water-based tourism, introduction to recreation and forestry, and Academic debates (since 2014) in Recreation & Ecotourism, and Soil and water department, college of Agriculture, University of Duhok.
4. Teaching undergraduate with courses include Water quality & quantity as well as Limnology to the student of Fisheries department, College of Agriculture, University of Salahaddin.
5. Teaching advanced Environmental pollution to MSc student.
6. Qualified to give courses on: Hydrology, Meteorology, Hydrochemistry, Water management, and Ecology.
7. Familiar with analyzing Environmental stable isotopes of water (^{13}C , ^{18}O and ^2H), and chemical analysis of water (major ions and trace elements).
8. Very Familiar with collecting and interpretation of data related to water contamination in both surface water and groundwater (heavy metals, pesticides, fertilizers, pharmaceuticals, biology...etc.).
9. Very familiar in mushroom cultivation (oyster and white button mushroom)

Computer skills

1. Very familiar with the word, windows and excel programs.
2. Have ability on working with Arc-GIS, Diagrammes and Aqachem programs for analyzing water chemistry and isotopic data.

Spoken Languages

<i>Kurdish</i>	Read, written and spoken	(mother language).
<i>Arabic</i>	Read, written and spoken	Very well
<i>English</i>	Read, written, spoken	Very well
<i>French</i>	Read, written, spoken	Fair

Language courses

- **English:**
 - a) Attended an English language course in Brasshouse Center, Birmingham, UK, at intermediate level from January to April 2006.
 - b) Participated in an English language course in ELCOS Center, University of Wales, Bangor, UK, at upper intermediate level from April to August 2006.
 - c) Attended the Pre-sessional course, August & September 2006, in ELCOS Center, University of Wales, Bangor, UK, for Master degree qualification.
- **French:**
 - Took part in French language courses (level: A1, A2 and B1) in the University of Blaise Pascal, Clermont-Ferrand, France, from 2011 to 2013.

Research and Publication

- **MSc. Thesis** (2007) entitled “Effect of future predicted summer drought on the growth of two provenances of pedunculate oak (*Quercusrobur* L.)” in the United Kingdom.
- **PhD. Thesis** (2014) entitled” Investigating the behavior of alluvial systems, thanks to the classical, isotopic and emerging tracers. Case study of the alluvial aquifer of the Allier River (Auvergne, France).
- **Mohammed N.**, Celle-Jeanton H., Huneau F., Le Coustumer P., Lavastre V., Bertrand G., Charrier G., Clauzet M.L. (2014) Isotopic and geochemical identification of main groundwater supply sources to an alluvial aquifer, the Allier River valley (France). *Journal of Hydrology*, 508: 181–196.
- Celle-Jeanton H., Schemberg D., **Mohammed N.**, Huneau F., Bertrand G., Lavastre V., Le Coustumer P. (2014) Evaluation of pharmaceuticals in surface water: reliability of PECs compared to MECs. *Environmental International*.
- **Nabaz I. Mohammed** and Karwan A. Bamarni (2019). Water quality monitoring of Duhok Dam (Kurdistan Region of Iraq). *Zanco Journal of Pure and Applied Sciences*.

- **Nabaz I. Mohammed** (2019). Assessment of groundwater contamination with heavy metals in rural area. Case study of Barebuhar village, Duhok governorate, Kurdistan region of Iraq. Journal of Duhok University.
- **Nabaz I. Mohammed**, Karzan Awni Abduljabar, Honar Safar Mahdi, Hojeen Majid Abdullah and Sami Youseef (2020). Groundwater quality assessment of Domiz refugee camp in Duhok governorate, Kurdistan region of Iraq. Zanco Journal of Pure and Applied Sciences.

Ongoing Research:

- Assessing heavy metals in waste water, soil and vegetables in urban area of Duhok city.
- Investigating the waste water quality in Domiz refugee camp.

Conferences: Participation, Presentations and Posters

- 1- Kurdistan 2nd Conference on Biological Sciences, Dohuk University 6-8 May, 2008.
- 2- The First Kurdistan Tourism Conference in Duhok 25 / 2 / 2009.
- 3- The EGU General Assembly in Vienne 2012: Poster; “Spatial hydrochemical and isotopic variations within the alluvial aquifer of the Allier River (Massif Central, France)”.
- 4- The IGC conference in Brisbane, Australia 2011: Poster “Spatial and temporal hydrochemical and isotopic variations within the alluvial aquifer of the Allier River (Massif Central, France)”.
- 5- PhD. student conference in LMV, Clermont-Ferrand, France 2012: Presentation “Contribution of a multi-criteria analysis to better understanding the alluvial aquifer functioning and vulnerability. Application to an experimental site of Allier basin”.
- 6- The IAH conference in Niagara-fall, Canada 2012: Presentation “First evaluation of pesticides and pharmaceuticals in the alluvial aquifer of the Allier River (Massif Central, France)”.
- 7- The EGU General Assembly in Vienne, Austria 2013: Poster” Integrated characterization of groundwater contamination in an alluvial system. Case study of Allier alluvial aquifer (Massif Central, France)”.
- 8- IAH conference in Perth, Australia 2013: Poster” Pharmaceuticals evaluation in surface water: PEC vs MEC. Case study of the Allier River and its connected alluvial system (Massif Central, France)”.
- 9- IAH 2014 Groundwater: Challenges and Strategies, Marrakech, Morocco, 15 – 19 September 2014: Poster “A combined approach of chemical, isotopic and microbial tracers to determine the origin of nitrate in an alluvial aquifer. Case study of the Allier alluvial system (France)”.

- 10- Participated as a member of scientific committee of the conference in 2nd Scientific Agriculture Conference, university of Duhok, 26 – 27 April 2016.
- 11- Participated in the 3rd International Agriculture Conference, university of Duhok, 02 – 03 October 2019.
- 12- Participated in the 1st International conference of agriculture sciences 2019. Salahaddin University-Erbil, College of Agricultural Engineering Sciences.
- 13- Support to Traditional Cultural Practices in Northern Iraq project visit to three universities in Indian State, USA (University of Purdue, University of Notre Dame, and Indiana University) for 2 weeks during August 2022.
- 14- APPRAIS project (Bologna system application in higher education) participation in Italy and Spain in one week field visit in Rome (Italy) and in Murcia (Spain) in the framework of APPRAIS project that held from January 16th to January 22nd 2023.

Projects and NGOs experience

- **ZSVP** local NGO project on “White button mushroom production” for local community in 2018. (**Trainer**)
- **Rwanga** local NGO project on “Travel and Tourism” in 2018. (**Trainer**)
- **LTT** international NGO project on “Gardening evaluation of refugees and IDPs camps in Duhok governorate” in 2018. (**Evaluator**)
- **USAID** project on “Cultural restoration program in northern Iraq”. From 2019 to 2023. (**Project manager**)
- **AVSI** Italian NGO project on Oyster mushroom production for IDPs and local community. Duration: 12 months, from Dec. 2019 to Nov. 2020. (**Trainer + Consultant**)
- **Rwanga** local NGO project on Water Conservation, 2020. (**Trainer**)
- **AVSI** Italian NGO project on Oyster mushroom production for IDPs and local community. Duration: 3 months, from Feb. 2021 to May 2021. (**Trainer + Consultant**)
- **AVSI** Italian NGO project ” Resilience building and income access interventions for Yazidi women, youth and smallholder farmers belonging to vulnerable displaced, refugee and host community populations in Duhok”. Duration: 9 months, from Aug. 2021 to May. 2022. (**Consultant**)

Awards

- Kurdistan Region scholarship 2005.
- Erasmus Mundus scholarship 2010.

Qualifications and skills

- White button mushroom cultivation project manager and trainer
- Oyster mushroom cultivation project manager and trainer
- Environmental awareness and Ecotourism advisor
- Water quality project supervision
- Water resources management advisor

Memberships

- Member of the Kurdistan Agronomist syndicate since 2003.
- Member of the Cultural center staff in the University of Duhok.
- Member of EGU (European Geoscience union) since April 2012.
- Staff member in Forestry Department, college of Agricultural Engineering Sciences, University of Duhok Between 2004 - 2014.
- Staff member of Recreation & Ecotourism department, college of Agricultural Engineering Sciences, University of Duhok since 2014.
- Member of the scientific committee of College of Agricultural Engineering Sciences, university of Duhok from October 2015 to October 2017.
- Head of scientific committee of Recreation & Ecotourism department, college of Agricultural Engineering Sciences, University of Duhok from October 2015 to October 2017.
- Member of the College of Agricultural Engineering Sciences council, university of Duhok since October 2017.
- Member of curriculum development committee, of Agricultural Engineering Sciences, university of Duhok, from 2019 to 2022.