

# MOHAMED HEMIDA

Assistant lecturer at Faculty of Science

## Address

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## ResearchGate:

<https://www.researchgate.net/profile/Mohamed-Eid-42/research>

## Skills

## Language

English	Arabic	Hungarian
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B2	native	A1
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Native: Arabic

## Software skills

QGIS

ArcGIS

Diagrammes

Microsoft Office

Aquachem

PHREEQC

Grapher

## Work experience

Assistant lecturer at Faculty of Science

(2020-2021)

### Beni-Suef University

- Teaching the practical courses of Hydrology, Hydrogeology, water quality, water resources, Geophysics, Rocks, Mineralogy, Stratigraphy, Crystallography and water treatment.
- Teaching Software skills (e.g ArcGIS, AQUACHEM, Grapher, Surfer and Diagrammes).
- Teaching field and laboratory measurements of water samples and rocks from different sources.

## Education

- **BSc in Geology and Chemistry, Beni-Suef University, Egypt** with first honor class (excellent grade)

(2012-09-2015-09)

- **Pre-Master in Hydrogeology, Beni-Suef University, Egypt**

(2016-09-2020-09)

- **MSc in Environmental Engineering, Szent István University, Hungary with GPA 4.85/5**

Thesis work: water quality assessment of the Rákos stream in Hungary through comparison between the field and laboratory measurements (pH, EC, TDS, Nitrate, Nitrite, Ammonia, Chloride, phosphate, Sulfate) GPA: 4.84/5

(2018-09-2020-06)

- **PhD in Hydrogeology, Faculty of Earth Science and Engineering, Miskolc University GPA: 4.85/5 **first year** (2021-Current)**

## Publications

AbuKhadra., et al. "Evaluation of different forms of Egyptian diatomite for the removal of ammonium ions from Lake Qarun: A realistic study to avoid eutrophication." *Environmental Pollution* 266 (2020): 115277.

Abukhadra, Mostafa R., et al. "Effective desalination of brackish groundwater using zeolitized diatomite/kaolinite geopolymer as low-cost inorganic membrane; Siwa Oasis in Egypt as a realistic case study." *Journal of Contaminant Hydrology* 244 (2022): 103923.

Jumah, May N. Bin, et al. "Enhanced remediation of As (V) and Hg (II) ions from aqueous environments using  $\beta$ -cyclodextrin/MCM-48 composite: Batch and column studies." *Journal of Water Process Engineering* 42 (2021): 102118.

## Training and courses

Training course in Basic of Well Logging Tools (GR, SP, Density Tools, CAL, Neutron log, Sonic log, Resistivity Log, Rw determination and permeability, IP software application) **(2017-05)**

Workshop in petroleum exploration and evaluation (General Petroleum Company) **(2014-08)**

Training course in quarries of limestone and shale for cement industry (Titan Company, Beni-Suef city) **(2014-06)**

Workshop in Basic Principals in Scanning Electron Microscope and transmission Electron Microscope (Faculty of Science, Beni-Suef University) **(2014-04)**

Field trip in Sinai to study the structure, associated features, stratigraphy, mineral resources and geomorphological features of Suez Gulf. **(2015)**

Salam, Mohamed Abdel, et al. "Effective decontamination of Ca<sup>2+</sup> and Mg<sup>2+</sup> hardness from groundwater using innovative muscovite based sodalite in batch and fixed-bed column studies; dynamic and equilibrium studies." *Journal of Contaminant Hydrology* 241 (2021): 103817.

Abukhadra, Moustafa R., et al. "Insight into chitosan/mesoporous silica nanocomposites as eco-friendly adsorbent for enhanced retention of U (VI) and Sr (II) from aqueous solutions and real water." *International Journal of Biological Macromolecules* 173 (2021): 435-444.

## Projects

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Water quality assessment of the Rákos stream, Hungary **(2020)**

Effective desalination of brackish groundwater using zeolitized diatomite/kaolinite geopolymer as low-cost inorganic membrane **(2018)**

Application of multi-Isotopes and geochemical modeling for delineating recharge and salinization sources in Siwa Oasis aquifers, Egypt **(2021- current)**

## Awards

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MSc scholarship in Hungary **(2018-09-2020-06)**

PhD scholarship in Hungary **(2021-2025)**

Prize of the best student in Egyptian Universities, Institute for preparation of Leaders, Egypt. **(2014-08)**

Ambassador for Egyptian PhD students in Hungary **(2022-Current)**

Student coordinator for Faculty of Earth Science and Engineering, Miskolc University **(2022-Current)**

Consultant of the international relationship between Egypt and Hungary **(2022-current)**

## Research interests

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Hydrology, Hydrogeology, water quality, water resources, water management, surface water modeling, groundwater modeling and water treatment