**Khaled Said Gemail , Professor of Environmental and Hydro-geophysics,**

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| **1. Basic Information** | | | |
| Full Name in Arabic:  **خالد محمد سعيد ابراهيم جميل** | | Full name in English: *(As you write it in Int. publications, underline family name):* **Khaled Said Gemail** | |
| Last University Degree **: Ph.D** | Faculty, University, Country  **Faculty of Science, Zagazig University, Egypt** | | Graduation Date  **2003** |
| Title: Prof. | Field of specialization: Environmental Geophysics and hydrogeophysics | | |
| Affiliation: Zagazig University | **Environmental Geophysics Lab (ZEGL), Zagazig University, Faculty of Science, Department of Geology** | | |
| Current Position: | **professor** | | |
| Former positions | Ph.D scholarship TU Freiberg, Germany 2000-2002  Post Doctoral Saskatchewan University, Canada 2007-2008  Lecturer Saskatchewan University, Canada 2008-2011,  Associate professor Zagazig University, Geology Department 2012-2017 | | |
| Teaching Skills | * Taught university several courses to undergraduate and graduate students in Zagazig University, Egypt and Saskatchewan University, Canada including, Hydrogeophysics, Groundwater Exploration, Field Geophysics, Environmental Geophysics, Geophysical Field Camp, * Developing the Curriculum of Geophysics B.Sc program 2015 and 2020 in Geology Department Zagazig University * Reviewing several Curriculums in the field Geosciences including Petroleum and Mining Sciences at Matruh University 2015, Applied Earth Sciences Beni Suwaf 2014, and Applied Geology and Geophysics, King Salman at El-Tour * Certified Professional Trainer (CPT) liecence from International Certified Training Borad (ICTB) | | |
| Contact Information: **Zagazig University, Faculty of Science, Department of Geology, Zagazig**  Mobile Phone**: +2 01145031722** Fax: E-mail: **khaledgemail@zu.edu.eg** | | | |
| **2. Field of research: Environmental Gephysics , Hydrogeophysics and groundwater pollution, RS and GIS applications in Water resources, 2D and 3D resistivity modeling,** | | | |
| **3- Scienitfic websites:**  Scopus: <https://www.scopus.com/authid/detail.uri?authorId=36445026100>  Google schallor: <https://scholar.google.com/citations?hl=ar&user=6jUDt5MAAAAJ>  Officual website: [www.zegl.zu.edu.eg](http://www.zegl.zu.edu.eg) | | | |
| **4 Last Scientific Achievements**   * 2022-2025 PI for 46209 STDF applied Science Project Roadmap for sustainable groundwater resources in the Nile Delta using integrated approaches under the impact of climate change and wastewater pollution. * 2022-2024 Co-PI for Let Science Talk, ASRT project, Geophysical and geoinformatic assessment of rainwater harvesting in the North western Coastal strip to mitigate saltwater intrusion, Egypt. * 2018-2021 PI for LIP011-047-ZAG project: International lab accreditation of environmental geophysics lab at Zagazig university funded from PMU (Project management in High Education Ministry) * 2019-2024 Member of the Research and Policy Committee of the Center for Excellence-Water. USAID-COE project- Applied Research Projects pillar. * 2018-2021 PI for SNG project: An Integrated Remote Sensing and GIS Approach for Exploring Groundwater Potentials in Basement Complex Terrain, Southern Sinai, Egypt, funded by ASRT, Egypt * 2014-2016 PI for ASRP-1-010-ZAG as Applied Scientific Research Project (ASRP), Integrated Environmental studies for assessment of water and soil salinization in North of El-Sharkia, funded from PMU (Project management in High Education Ministry) * 2009-2011 Member at NSRC, Canada project with Saskatchewan University: Application of resistivity measurements (1D and 2D) to study the geological setting of the till deposits at Luck Lake area, southern Saskatchewan, Canada. * 2011-2013 Member at FP7 Collaborative Project. The project title is "Climate Induced Changes on the Hydrology of Mediterranean Basins "CLIMB Reducing Uncertainty and Quantifying Risk through an Integrated Monitoring and Modeling System | | | |
| **5. Last 5 relveant Publications** | | | |
| Yossif, Y, **Gemail Kh**, Atia H. and Mahdy M. 2024: Insight into Land Cover Dynamics and Water Challenges Under Anthropogenic and Climatic Changes in the Eastern Nile Delta: Inference from Remote Sensing and GIS Data. Total Science of the Environment,913, 169690. <https://doi.org/10.1016/j.scitotenv.2023.169690> | | | | |
| **Gemail Kh** and Abd-Elaty I, 2024: Gemail, K.S., Abd-Elaty, I. (2024). Unveiling the Hidden Depths: A Review for Understanding and Managing Groundwater Contamination in Arid Regions. In: The Handbook of Environmental Chemistry. Springer, Berlin, Heidelberg. https://doi.org/10.1007/698\_2023\_1049 | | | | |
| **Gemail Kh,** Ghonimi A, Sable S, Kareem, Saleh A., (2024): Unraveling Flow Pathways in Fractured Basalt under Challenging Environmental Conditions: A Synergistic Approach of Electrical Resistivity Tomography and Seismic Refraction Imaging. Accepted in Environmental Processes, Dec. 2023. | | | | |
| [Ibrahim, A.](https://www.scopus.com/authid/detail.uri?authorId=57221758116), [**Gemail, K.S**.](https://www.scopus.com/authid/detail.uri?authorId=36445026100), [Bedair, S.](https://www.scopus.com/authid/detail.uri?authorId=29667472600),  [Koch, M.](https://www.scopus.com/authid/detail.uri?authorId=9279986600), [Nosair A, (2023).](https://www.scopus.com/authid/detail.uri?authorId=57189517853) [An Integrated Approach to Unravel the Structural Controls on Groundwater Potentialities in Hyper-arid Regions Using Satellite and Land-Based Geophysics: A Case Study in Southwestern Desert of Egypt](https://www.scopus.com/record/display.uri?eid=2-s2.0-85144200128&origin=resultslist&sort=plf-f). [Surveys in Geophysics](https://www.scopus.com/sourceid/28977?origin=resultslist), 2023, 44(3), pp. 783–819 | | | | |
| [Abu Salem, H.S.](https://www.scopus.com/authid/detail.uri?authorId=56487848200), [**Gemail, K.S**.](https://www.scopus.com/authid/detail.uri?authorId=36445026100), [Junakova, N.](https://www.scopus.com/authid/detail.uri?authorId=55325782900), [Ibrahim, A.](https://www.scopus.com/authid/detail.uri?authorId=57221758116), [Nosair (2022),](https://www.scopus.com/authid/detail.uri?authorId=57189517853)[An Integrated Approach for Deciphering Hydrogeochemical Processes during Seawater Intrusion in Coastal Aquifers](https://www.scopus.com/record/display.uri?eid=2-s2.0-85128456938&origin=resultslist&sort=plf-f) [Water (Switzerland)](https://www.scopus.com/sourceid/21100255400?origin=resultslist), 2022, 14(7), 1165 | | | | |
| Youssef, Y.M., Gemail, K.S., Sugita, M. et al. Natural and Anthropogenic Coastal Environmental Hazards: An Integrated Remote Sensing, GIS, and Geophysical-based Approach. Surv Geophys 42, 1109–1141 (2021). https://doi.org/10.1007/s10712-021-09660-6 | | | | |