

Academic Curriculum Vitae



Personal Information:

Full Name: **Hawkar Hashim Ibrahim**

Academic Title: **Lecturer**

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Education:

- 2013 MSc. in Civil Engineering: Geotechnical Engineering,
at the University of Nottingham, Nottingham, UK.
Numerical Modelling of Laterally Loaded Monopiles in *Sand* [MSc Dissertation]
- 2008 BSc. in Civil Engineering,
at the Salahaddin University-Erbil, Erbil, Kurdistan Region, Iraq.
Field Application of Total Station [BSc Final Project]

Employment:

- Civil Engineering Department, College of Engineering, Salahaddin University-Erbil, Erbil, Iraq since 2008.

Teaching experience:

I am currently an assistant lecturer at the Salahaddin University-Erbil, College of Engineering; Civil Engineering Department and Dams & Water Resources Engineering Department.

Year	Module	Stage	Department	University
2022-2023	Soil Mechanics [Laboratory]	Second & Third stages	Civil Engineering	Salahaddin
	Foundation Engineering	Third & Fourth Stages	Water Resources Engineering	Salahaddin
2021-2022	Soil Mechanics [Laboratory]	Second & Third stages	Civil Engineering	Salahaddin
	Foundation Engineering	Third & Fourth Stages	Water Resources Engineering	Salahaddin
2020-2021	Soil Mechanics [Laboratory]	Third stage	Civil Engineering	Salahaddin
	Foundation Engineering	Fourth Stage	Water Resources Engineering	Salahaddin
2019-2020	Soil Mechanics [Laboratory]	Third stage	Civil Engineering	Salahaddin
	Foundation Engineering	Fourth Stage	Water Resources Engineering	Salahaddin
2018-2019	Soil Mechanics [Laboratory]	Third stage	Civil Engineering	Salahaddin
	Foundation Engineering	Fourth Stage	Water Resources Engineering	Salahaddin
2017-2018	Soil Mechanics [Laboratory]	Third stage	Civil Engineering	Salahaddin
	Foundation Engineering	Fourth Stage	Civil Engineering	Salahaddin
2016-2017	Soil Mechanics [Laboratory]	Third stage	Civil Engineering	Salahaddin
	Foundation Engineering	Fourth Stage	Water Resources Engineering	Salahaddin
2015-2016	Geological Engineering	Third stage	Civil Engineering	SABIS University– Erbil
	Soil Mechanics	Third stage	Water Resources Engineering	Salahaddin
	Foundation Engineering	Fourth Stage	Water Resources Engineering	Salahaddin
	Academic Debate	First Stage	Civil Engineering	Salahaddin
2014-2015	Foundation Engineering	Fourth Stage	Water Resources Engineering	Salahaddin
	Soil Mechanics [Laboratory]	Diploma student	Civil Engineering	Salahaddin
	Computer	First Stage	Civil Engineering	Salahaddin
2013-2014	Soil Mechanics [Laboratory]	Third stage	Civil Engineering	Salahaddin
	Mathematics I	First Stage	Civil Engineering	Salahaddin

Research and publications

- [Comparison Study on the Effect of Different Additives on the Geotechnical Behavior of Expansive Soil](#)
- [Forecasting tunnel boring machine penetration rate using LSTM deep neural network optimized by grey wolf optimization algorithm](#)
- [Developing six hybrid machine learning models based on gaussian process regression and meta-heuristic optimization algorithms for prediction of duration and cost of road ...](#)
- [Forecasting face support pressure during EPB shield tunneling in soft ground formations using support vector regression and meta-heuristic optimization algorithms](#)
- [Meta-heuristic optimization algorithms for prediction of fly-rock in the blasting operation of open-pit mines](#)
- [Preliminary experimental investigation on the inundating-induced collapse in collapsible soils improved by encased sand column](#)
- [Prediction of Mode-I rock fracture toughness using support vector regression with metaheuristic optimization algorithms](#)
- [Prediction of safety factors for slope stability: comparison of machine learning techniques](#)
- [Machine Learning Techniques to Predict Rock Strength Parameters](#)
- [Prediction of duration and construction cost of road tunnels using Gaussian process regression](#)
- [Predicting construction time and cost of tunnels using Markov chain model considering opinions of experts](#)
- [Machine learning forecasting models of disc cutters life of tunnel boring machine](#)

- [Presenting the best prediction model of water inflow into drill and blast tunnels among several machine learning techniques](#)
- [Modeling and Statistical Evaluations of Unconfined Compressive Strength and Compression Index of the Clay Soils at Various Ranges of Liquid Limit](#)
- [Using waste glass powder for stabilizing high-plasticity clay in Erbil city-Iraq](#)
- [Comparison of artificial neural network \(ANN\) and linear regression modeling with residual errors to predict the unconfined compressive strength and compression index for Erbil ...](#)
- [Influence of rock powder on the geotechnical behaviour of expansive soil](#)
- [Dynamic reduction of time and cost uncertainties in tunneling projects](#)
- [Forecasting sidewall displacement of underground caverns using machine learning techniques](#)
- [Dynamic prediction models of rock quality designation in tunneling projects](#)
- [Artificial intelligence forecasting models of uniaxial compressive strength](#)
- [Tunnel geomechanical parameters prediction using Gaussian process regression](#)
- [Improving the geotechnical properties of high expansive clay using limestone powder](#)
- [Strength improvement of expansive soil by utilizing waste glass powder](#)
- [Stabilization of high-plasticity silt using waste brick powder](#)
- [Correlation of Shear Wave Velocity with SPT-N for a Tower-Building Site at Erbil City](#)
- [Determining Casagrande Liquid Limit Values from Cone Penetration Test Data](#)
- [Influence of Upstream Blanket on Earth Dam Seepage](#)
- [Mechanical Properties of Concrete Using Iron Waste as a Partial Replacement of Sand](#)

Conferences and courses attended

- 2022 Participation in Symposium architect between academic and professional work
- 2022 Participation in workshop entitled AILAR (Artificial Intelligence in Life and Research)
- 2021 Participation in The Fourth Excellent Paper Symposium
- 2020 Participation 3rd International Conference on Recent Innovation in Engineering (ICRIE)
- 2019 Participation in Second International Conference on Engineering and Innovative Technology (SU-ICEIT-2019)
- 2018 Participation in [IEC2018] conference
- 2017 Attending in [SU-ICEIT] conference
- 2017 Attending in [6th ICOWOBAS 2017] Basic and Applied Sciences conference
- 2016 Attending in First International conference on Engineering and Innovation Technology
- 2014 Attending in 1st International Engineering Conference (IEC2014) On Developments in Civil & Computer Engineering Applications
- 2013 Attending in ABAQUS Conference, UK.
- 2013 Participate in the First International Scientific Conference for Kurdistan's Postgraduate Students. As a staff committee in Nottingham University, UK.

Professional memberships

- Kurdistan Engineer Union, Erbil, from 2008 to date.

Professional Social Network Accounts:

- <https://scholar.google.com/citations?hl=en&authuser=1&user=CZ1GargAAAAJ>
- https://www.researchgate.net/profile/Hawkar-Ibrahim?ev=hdr_xprf
- <https://www.linkedin.com/in/hawkar-madany-077a59b6/>
- <https://orcid.org/0000-0002-2295-2964>
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