

CURRICULUM VITÆ



Dr. Hamid GADOURI, Doctor at Yahia Farès University, Medea 26000, Algeria.

Master in Geotechnical Engineering, Djilali Bounaama University Khemis–Miliana, Ain Defla 44000, Algeria.

Teacher at Yahia Farès University, Discipline of Geotechnical Engineering.

Member in the Research Team of Geomaterials Laboratory of Hassiba Ben Bouali University, Soils Improvement and Modeling, Chlef 02000, Algeria.

Contact Information

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Specialization

Construction Engineering and Geotechnical Risks (in French: Ingénierie de Construction et Risques Géotechniques)

Educational Qualifications

**Ph.D
(2017)**

In Construction Engineering and Geotechnical Risks (Chemical Soil Stabilization) at University of Yahia Farès, Medea, Algeria.

Thesis title: *Influence of the presence of sulphates on the treatment of clayey soils with mineral additions (In French: Influence de la présence des sulfates sur le traitement des sols argileux par des ajouts minéraux).*

**Master
(2010)**

In Geotechnical Engineering from the University of Djilali

Bounaama, Khemis–Miliana, Ain Defla, Algeria.

Thesis: Analysis and interpretation of geotechnical parameters of Plaisancian marls of El–Achour and Dely Brahim regions, Algiers Department (**In French:** Analyse et interprétation des paramètres géotechniques des marnes du Plaisancien de la région d'El–Achour et Dely Brahim, Wilaya d'Alger).

**Licence
(2008)**

In Geotechnical Engineering from the University of Djilali Bounaama, Khemis–Miliana, Ain Defla, Algeria.

Thesis: Contribution to a geotechnical, geological and hydro-geological study of a civil engineering project (Bridge) on the Cheliff river, Ain Defla Department (**In French:** Contribution à une étude géotechnique, géologique et hydrologique d'un ouvrage d'art (Pont) sur l'oued Cheliff, Wilaya d'Ain Defla).

Teaching

Sep 2013 – Present

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Sep. 2013 – Jan. 2014

Practical Works on Soil and Soil-Interaction Modeling of different Civil Engineering Projects using PLAXIS Program 8.2 (**For Ms.1**), Civil Engineering, Medea University

Sep. 2012 – Jan. 2013

Practical Works in Geotechnical Tests (**For Lice. 3**), Civil Engineering, Medea University

Sep. 2011 – Jan. 2012

Practical Works in Materials resistance (**For Lice.2**), Civil Engineering, Medea University

Areas of Research Interests

Ground Improvement Methods (Méthodes d'Amélioration des Sols)

Chemical Soil Stabilization (Stabilisation Chimique des Sols)

Effects of Sulphates on Chemical Soil Stabilization (Effets des Sulfates sur la Stabilisation Chimique des Sols)

Soil Slope Stability (Stabilité des Pentés)

Soil Mechanics (Mécanique des Sols)

Rock Mechanics (Mécanique des roches)

Resistance of Materials (Résistances des Matériaux)

Pavement Engineering (Chaussées Routières)

Environmental Geotechnics (Geotechnique Environnementale)

Artificial Neural Networks (Réseaux de Neurones)

Soil Dynamics (Dynamique des Sols)

Statistical Models Development (Développement des Modèles Statistiques)

Major Research Contributions and Their Main Subject Areas

2014–2015 **Master Thesis:** *influence of sulphates on the stabilization of clayey soils by using mineral additives.*

In french: *Influence des sulfates sur la stabilisation des sols argileux par des ajouts minéraux.*

Subject Areas: *Geotechnical Engineering, Chemical Soil Stabilization.*

University: *Khemis-Miliana University.*

Department: *Earth Sciences.*

Authors: *Marwana Aminou, Muangongo Ivanete, Belhadj Fatima Zouhera and Gadouri Hamid.*

Master Thesis: *Geotechnical parameters Analysis and soil-structure interaction modeling in static and dynamic load in order to choose the type of foundation: Case of El-Achour and Daly-Brahim regions.*

In french: *Analyse des paramètres géotechniques et modélisation de l'interaction sol-structure en charge statique et dynamique pour le choix du type de fondation: Cas de la région d'El-Achour et Daly-Brahim.*

Subject Areas: *Soil Dynamics, Modeling and slope stability.*

University: *Medea University.*

Department: *Matter Engineering.*

Authors: *Rahmani Imad-Eddine, Boumeddiene Ismat'Allah, Gadouri Hamid and Lechnani Amina*

2013–2014 **Master Thesis:** *Effects of disruptors (sulphates) on the geotechnical properties of clayey soils improved by mineral additives.*

In french: *Effets des Perturbateurs (sulfates) sur les propriétés géotechniques des sols argileux améliorés par des ajouts minéraux.*

Subject Areas: *Geotechnical Engineering, Chemical Soil Stabilization.*

University: *Chlef University.*

Department: *Civil Engineering.*

Authors: *Esselami Abdelah, Belaribi Abdelwahab, Harichane Khelifa and Gadouri Hamid.*

Laboratory and Field Testing Experience

Geotechnical Engineering Laboratory Tests on Soils

In Situ Tests on Soils

Research Papers in Refereed, Scholarly Journals

Papers Under Preparation:

- Gadouri, H., Harichane, K. and Ghrici, M. A state-of-the-art review of sulphates effects on geotechnical properties of additives-stabilised problematic soils, (**In Progress**).
- Gadouri, H., Harichane, K. and Ghrici, M. Assessing the effects of sulphates on the correlation between the physical and mechanical properties of soil–L–NP mixtures used as building materials for road pavements, (**In Progress**).
- Gadouri, H., Harichane, K. and Ghrici, M. Assessment of sulphates effect on compaction characteristics of soil–Lime–Natural Pozzolana mixtures as an adhesion material for road construction, (**In Progress**).
- Gadouri, H., Harichane, K. and Ghrici, M. Assessing the effect of sulphates on the classification of soil–lime–natural pozzolana mixtures used as materials for road construction, (**In Progress**).

Papers Under Review:

- Gadouri, H., Harichane, K. and Ghrici, M. Effect of the interaction between calcium sulphate and mineral additives on shear strength parameters of clayey soils. *Journal of Engineering Research*, (**Under Review**).
- Harichane, Z., Guellil, M-E. and Gadouri, H. Benefits of Probabilistic Soil Foundation Structure Interaction. *International Journal of Geotechnical Engineering*, (**Under Review**).

Published/Accepted Papers:

- Gadouri, H., Harichane, K. and Ghrici, M. (2016). Effects of Na₂SO₄ on the geotechnical properties of clayey soils stabilised with mineral additives, *International Journal of Geotechnical Engineering*, Vol. 11, No. 5, pp. 500-512, doi: 10.1080/19386362.2016.1238562.

Link: <http://dx.doi.org/10.1080/19386362.2016.1238562>

- Gadouri, H., Harichane, K. and Ghrici, M. (2017). Effect of calcium sulphate on the geotechnical properties of stabilized clayey soils. *Periodica Polytechnica Civil Engineering*, Vol. 61, No. 2, pp. 256-271, doi:10.3311/PPci.9359.

Link:<http://search.proquest.com/openview/60f66574499704261cc939db2a14b658/1?q-origsite=gscholar&cbl=2034353>

- Gadouri, H., Harichane, K. and Ghrici, M. (2016). Assessment of sulphates effect on the classification of soil–lime–natural pozzolana mixtures based on the Unified Soil Classification System (USCS). *International Journal of Geotechnical Engineering*, pp. 1-9, DOI: 10.1080/19386362.2016.1275429.
Link: <http://dx.doi.org/10.1080/19386362.2016.1275429>
- Gadouri, H., Harichane, K. and Ghrici, M. (2017). A comparison study between $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ and Na_2SO_4 effects on geotechnical properties of clayey soils stabilised with mineral additives to recommend adequate mixtures as materials for road pavements. *International Journal of Geotechnical Engineering*, pp. 1-22, doi: 10.1080/19386362.2017.1320850.
Link: <http://dx.doi.org/10.1080/19386362.2017.1320850>
- Taleb Bahmed, I., Harichane, K., Ghrici, M., Boukhatem, B., Rebouh, R. and Gadouri, H. (2017). Prediction of geotechnical properties of clayey soils stabilised with lime using artificial neural networks (ANNs). *International Journal of Geotechnical Engineering*, pp. 1-13. doi: 10.1080/19386362.2017.1329966.
Link: <http://dx.doi.org/10.1080/19386362.2017.1329966>
- Gadouri, H., Harichane, K. and Ghrici, M. (2017). Effect of Sodium Sulphate on the Shear Strength of Clayey Soils Stabilized with additives. *Arabian Journal of Geosciences*, Vol. 10, No. 10. pp. 218, doi: 10.1007/s12517-017-3016-y.
Link: <https://link.springer.com/article/10.1007/s12517-017-3016-y>
- Gadouri, H., Harichane, K. and Ghrici, M. (2017). Assessment of sulphates effect on pH and pozzolanic reactions of soil–Lime–Natural Pozzolana mixtures. *International Journal of Pavement Engineering*, pp. 1-14, doi: 10.1080/10298436.2017.1337119.
link: <http://dx.doi.org/10.1080/10298436.2017.1337119>

Seminars/Workshops/Conferences

- Gadouri, H., Harichane, K. and Ghrici, M. (2015). Effets du Sulfate de Sodium sur des Sols Argileux Améliorés par des Ajouts Cimentaires. *13th Arab Structural Engineering Conference, University of Blida 1*, Dec.13-15, 2015, Algeria, pp. 1-8.
Link: <https://gadouriamid.jimdo.com/production-scientifiques/s%C3%A9minaires/>

Scientific internships and Practices Formation

- Juin 2004** Blocked internship of 15 days at the Housing and Construction Center Laboratory (LHCC, Kolea, Tipaza, Algeria) in order to

become familiar with the physico-mechanical tests of soils.

Sep. 2012 – Blocked internship at the Housing and Construction Center Laboratory (LHCC, Rouiba, Oued Smar, Algiers, Algeria) in order to perform several tests on improved clayey soils for preparing a doctoral thesis.

Thesis in progress: *Influence of the presence of sulphates on the treatment of clayey soils with mineral additions.*

Languages

- Arabic
- English
- French

Computers and Software

Office: Word, Excel, PowerPoint

Software: PLAXIS Program 8.2 (2D) modeling risks threatening the stability of civil engineering projects.

End