

CURRICULUM VITAE Fekri KAMOUN

GENERAL INFORMATION

Full Name: **Kamoun Fekri**
Date and Place of Birth: **11/12/1960 Sfax**
Academic Rank: **Professor**
Specialization: **Earth Sciences/Coastal Environnements**
Institution: **Faculty of Sciences of Sfax**
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ACADEMIC TITLE AND CAREER PROGRESSION

Since 2006: Professor of Higher Education in Geological Sciences (Faculty of Sciences of Sfax)
2000: Associate Professor of Higher Education in Geological Sciences (Faculty of Sciences of Sfax)
1999 Accreditation to Supervise Research at Paul Sabatier University, Toulouse, November
1991: Appointment to the rank of Assistant Professor and then Assistant Professor of Higher Education in Geological Sciences (Faculty of Sciences of Sfax)
1988 Doctorate, Paul Sabatier University, Toulouse,
1985: Appointment to the rank of Engineer at the Center for Earth Sciences (INRST), Borj Cedria, Tunis
1984 Advanced Studies Diploma (D.E.A.) in Geology, Paul Sabatier University, Toulouse, June
1983- Diploma of Technical Engineer in Applied Geology, Faculty of Science and Technology of Sfax, June

TEACHING AND RESEARCH ACTIVITIES

As a Professor of Geological Sciences, I have conducted a number of teaching activities for undergraduate and master's students in Earth Sciences at the Faculty of Sciences of Sfax. These courses covered diverse yet complementary topics such as coastal dynamics, coastal ecosystems, the vulnerability of wetlands, the paleoecology of ostracods and foraminifera, and stratigraphy. These teaching modules were recently defined within the framework of higher education reform (LMD system), in which I participated as a representative member of the University of Sfax.

The research and supervision activities I have undertaken have led, for the first time, to the establishment of the lithostratigraphy of Holocene-age sub-surface sediments in wetland areas, including lagoons and sebkhas located along the coast of the Gulf of Gabes. A multidisciplinary approach combining the paleoecology of foraminifera, ostracods, and mollusks, along with sedimentology, geochemistry, and radiochronology, has made it possible to reconstruct the evolution of paleoenvironments in these wetland areas and the associated forcing factors. This research on lagoonal environments—resulting in six doctoral theses and the publication of around ten scientific articles—revealed that the coastline of the Gulf of Gabes is influenced by littoral drift currents responsible for the formation of sandy bars, which lead to the emergence and closure of lagoons. The historical sites of Acholla and Thapsus were shaped by this dynamic, and the development of Punic and Roman civilizations was significantly affected.

At Acholla, the development of breaker bars, sandy spits, and coastal progradation was at its peak between the 6th and 7th centuries CE, likely causing the silting up and subsequent abandonment of the Acholla coastline (Kamoun et al., 2020; Kamoun et al., 2021). At Thapsus, the sandy spits and intermittent shoals that promoted the extension of coastal barriers (Kamoun et al., in progress) led to the formation of the semi-open lagoon of Dzira and the siltation of the entrance to the Roman port, which necessitated dredging operations during the Roman era. The research conducted by Afef Khadraoui on the northern coast of Sfax enabled us to identify the peak phase of littoral drift current activity, which appears to have occurred between 2225 and 1396 cal BP and may have been responsible for the formation of the El Aouabed sebkha (Khadraoui et al., 2019).

KNOWLEDGE AND EXPERIENCE IN THE FIELD OF INTERNATIONAL COOPERATION

As a Project Member:

1983–1990: United Nations Development Programme (UNDP) – Geological Mapping of Southern Tunisia, under the supervision of Professor F. Zargouni.

1989–1991: International Cooperation Project (Mixed Committee for University Cooperation – C.M.C.U.) between the National Institute for Scientific and Technical Research (I.N.R.S.T.) and Université Paul Sabatier – Toulouse III (URA-CNRS 1405): Sequence Stratigraphy and Micropaleontology of the Mesozoic of Tunisia, coordinated by M. Ben Youssef and B. Peybernès.

1990–1992: Contract between the National Foundation for Scientific Research (Tunisia) and the Faculty of Sciences of Sfax: Study of Cretaceous and Tertiary Basins of the Northern Margin of the Saharan Platform: Tectono-sedimentary Evolution and Petroleum/Mineral Potential, led by M. Montacer.

1992–1995: C.M.C.U. project between the Faculty of Sciences of Sfax and Université Paul Sabatier – Toulouse III (URA-CNRS 1405): Sequence Stratigraphy, Micropaleontology, and Geochemistry of the Tunisian Mesozoic, co-coordinated by M. Montacer, F. Kamoun, and B. Peybernès.

1995–2000: Participant in the Peri-Tethys Programme:

Triassic Group: Coordinators – L. Courel and M.H. Ben Ismail

Jurassic Group: Coordinator – J. Thierry

1997–1999: C.M.C.U. project between the Faculty of Sciences of Sfax and the University of Maine (France): Mesozoic Blocks of the Tunisian Margin: Multidisciplinary Approach and Petroleum Implications, led by A. Rigane and C. Goumelin.

1998–2000: C.M.C.U. project with Université Paul Sabatier – Toulouse III (Laboratory of Sedimentary Basin Dynamics): Sedimentary Signature of Eustatic Cycles in Tunisia during the Mesozoic and Cenozoic, coordinated by M. Montacer and B. Peybernès.

2010–2014: Tunisian member of the European FP7 project MedSeA (Mediterranean Sea Acidification under Changing Climate), funded under FP7-ENV-2010.

As Project Leader / Coordinator:

2008–2010: Coordinator of the cooperation project with Morocco entitled: Sedimentary Dynamics, Biostratigraphy, and Paleogeographic Events in the Jurassic Basins of Tunisia and the Moroccan Atlas Domain in the Framework of the Tethyan Evolution.

2017–2019: Coordinator of the bilateral cooperation project with Portugal: Wetlands Vulnerability – Impact of Pollution, Climate Change, and Extreme Events: The Case of the Hachichina Coast (Gulf of Gabes).

ADMINISTRATIVE RESPONSIBILITIES

- **Director of the GEOGLOB Laboratory** (Géoressources, Matériaux, Environnements et Changements Globaux – LR13-ES-23) since 2023.
 - **Principal Investigator** of the Wetlands Research Project within the GEOGLOB Laboratory since 2013.
 - **Academic Coordinator** of the Master's Program in Earth Sciences (specialization: Environment and Global change) at the Faculty of Sciences of Sfax since 2010.
 - **Member** of the Research Unit "Geo-resources, Natural Environments and Global Change" (03UR10-02), headed by Professor Mabrouk Montacer (2002–2012).
 - **Member** of the Laboratory "Water, Energy & Environment" (LR-3E/00/1), directed by Professor Hamed Ben Dhia (1999–2001), and **Coordinator** of the Wetlands Project within this laboratory.
 - **Head of the Department of Earth Sciences** at the Faculty of Sciences of Sfax (May 2000 – April 2006).
 - **Member of the National Sectoral Committee for Higher Education Reform** from its creation in 2007 until 2012, during the implementation of the LMD system in Tunisia.
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- **Member, then Appointed Chair** of the recruitment committee for university assistant lecturers (academic years 2001–2002 and 2002–2003)
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Publications

Bahrouni, N., Meghraoui, M., Bayraktar, H. B., Lorito, S., Zagrarni, M. F., Polonia, A., **Kamoun, F.** (2024). Tsunami deposits in Tunisia contemporaneous of the large 365 CE Crete earthquake and Mediterranean Sea catastrophic event. *Scientific Reports*, 14(1), 4537. <https://doi.org/10.1038/s41598-024-53225-7>

Kamoun, M., Zaïbi, C., Khalifa, K. B., Freitas, M. C., Langer, M. R., Costa, A. M., Costa, P. J. M., Andrade, C. F. D., Tian, S. Y., Bahrouni, N., **Kamoun, F.** (2024). Palaeontological and sedimentological studies of dated cores from the coast of Thyna (Sfax, Gulf of Gabes, Tunisia): multiproxy evidence for a high-energy extreme event and palaeoenvironmental reconstructions. *Euro-Mediterranean Journal for Environmental Integration*, 1-28. <https://dx.doi.org/10.1007/s41207-024-00525>

Trabelsi, K.; Tiss, L.; Sames, B.; Houla, Y.; Hanini, A.; Elferhi, F.; Skanji, A.; Kamoun, F.; Zagrarni, M.F. (2022); Wägreich, M. Ostracod Response to a Major Middle Jurassic Sea-Level Fall: A Case Study from Southern Tunisia (North Gondwana) with Implications on Regional Stratigraphy and Palaeoenvironmental Reconstruction. *Geosciences*, 12, 93. <https://doi.org/10.3390/geosciences12020093>

Tiss, L., Trabelsi, K., **Kamoun, F.**, Soussi, M., Houla, Y., Sames, B., & Martín-Closas, C. (2019). Middle Jurassic charophytes from southern Tunisia: Implications on evolution and paleobiogeography. *Review of Palaeobotany and Palynology*, 263, 65-84. <https://doi.org/10.1016/j.revpalbo.2019.01.011>

Ben Khalifa, K. Zaïbi, Ch. Bonnin, J. Carbonel, P. Zouari, K. Mnif, Th , **Kamoun F.** (2019) Holocene environment changes in the hachichina wetland (gulf of gabes, tunisia) evidenced by foraminifera and ostracoda, geochemical proxies and sedimentological analyses.. *Rivista Italiana di Paleontologia e Stratigrafia (Research in Paleontology and Stratigraphy)*. vol. 125(2): 517-549

Khadraoui, A., Kamoun, M., Ben Hamad, A., Zaïbi, C., Bonnin, J., Viehberg, F., Bahrouni, N., Sghari, A., Abida, H., **Kamoun, F.**, (2018). New insights from microfauna associations characterizing palaeoenvironments, sea level fluctuations and a tsunami event along Sfax Northern coast (Gulf of Gabes, Tunisia) during the Late Pleistocene- Holocene. *Journal of African Earth Sciences* 147, 411-429. <https://doi.org/10.1016/j.jafrearsci.2018.05.011>,