

## PERSONAL INFORMATION

**Name:** Abdalla Abu Hamad  
**Birth date:** 15<sup>th</sup> June. 1966  
**Sex:** Male  
**Marital status:** Married  
**Nationality:** Jordanian, German  
**Address:** University of Jordan  
Faculty of Science, Department of Applied  
Geology and Environment  
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**Rank:** Professor- Biostratigraphy, Micropaleontology and Field Techniques at The University of Jordan.

**Web.**

- <http://science.ju.edu.jo/Lists/FacultyAcademicStaff/DispForm.aspx?ID=45&ContentTy peld=0x0100E4232CAAE74B17479C9FD0C7018BAFCE>
- [https://www.researchgate.net/profile/Abdalla\\_Hamad2](https://www.researchgate.net/profile/Abdalla_Hamad2)
- <https://scholar.google.com/citations?user=tvFw5QwAAAAJ&hl=en>

## EDUCATION

Degree	University	Specialist	Date of Degree
Ph.D. Degree	Hamburg and Muenster/ Germany	Paleontology and Biostratigraphy	11-2004
M.Sc. Degree	Yarmouk University / Jordan	Biostratigraphy and microfacies analysis	07-1994
B.Sc. Degree	Yarmouk University / Jordan	Geology	08-08-1988

**Ph. D Thesis title:** Palaeobotany and Palynostratigraphy of the Permo-Triassic in Jordan

**M.Sc. Thesis title:** Stratigraphy and Microfacies of the Triassic in Wadi Abu Oneiz area (West Naur)

## RESEARCH INTERESTS

- Evolution of terrestrial ecosystems and biodiversity.
- Qualitative and quantitative palaeoclimate and palaeoenvironmental reconstruction based on palaeobotanical proxies (i.e., palynomorphs and leaves).
- Palaeo-wildfires and their impact on fossil ecosystems in relation to environmental changes.

## COURSES TAUGHT

### - Undergraduate courses (University of Jordan):

1<sup>st</sup> year level: *Environmental Science, General Geology 101, Environmental Geology, Geological Mapping*

2<sup>nd</sup> year level: *Geological excursions, Petroleum Geology, Subsurface Geology*

3<sup>rd</sup> year level : *Stratigraphy and Historical Geology, Paleontology, Sedimentary Rock*

4<sup>th</sup> year level: *Field Techniques, Geological Mapping, Petrophysics and Log Evaluation, Graduation Project.*

### - Graduate courses (University of Jordan):

*Micropalantology*

*Sequence Stratigraphy*

*Field Geology*

## POSTGRADUATE STUDENTS, RESEARCH SUPERVISED

- **Ikhlas Al Hjuj** (M.Sc.-2009) “Deformed fossils and related Structures)
- **Amani Khrewesh** (M.Sc.-2011) “Late Cretaceous (Muwaqqar Formation) Ammonites in Southern Jordan”
- **Tasneem Hiasat** (M.Sc. 2015) “Sequence Stratigraphy and depositional environments of the Middle (Ladinian) of the outcrops in Wadi Al-Bahhath, NW Jordan”
- **Mohammad Jaradat** (M.Sc. 2018) Source Rock Quality characterization of Deeply Buried Oil Shale within Hamza Field, Azraq Basin, Jordan

## PROJECTS

- Paleobotany of Mesozoic and Late Paleozoic land plants.
- Late Paleozoic and Mesozoic palynology and palynostratigraphy.
- Coal Geology and Petrography as implication for palaeo-wildfires.
- Past climatic regimes of Wadi Gharandal Area-Southern Jordan; sedimentological and chronological study

## PUBLICATIONS

1. Kerp, H., **Abu Hamad, A.**, Vörding, B. & Bandel, K., 2006: Typical Triassic Gondwanan floral elements in the Upper Permian of the paleotropics. - *Geology*, 34: 265-268.
2. UHL, D., **ABU HAMAD**, A.M.B., KERP, H. & BANDEL, K., 2007. Evidence for palaeo-wildfire in the Late Permian palaeotropics – charcoalified wood from the Um Irna Formation of Jordan. *Review of Palaeobotany and Palynology*, 144, 221-230. Amsterdam.

3. **Abu Hamad, A.**, Kerp, H., Vörding, B. & Bandel, K., 2008: A Late Permian flora with *Dicroidium* from the Dead Sea region, Jordan. – Review of Palaeobotany and Palynology 149.
4. UHL, D., JASPER, A., **ABU HAMAD, A.M.B.** & MONTENARI, M., 2008. Permian and Triassic wildfires and atmospheric oxygen levels. Proceedings of the WSEAS Conferences - Special Issues, 13, 179-187.
5. DILL, H.G.; BECHTEL, A.; KUS, J.; GRATZER, R.; **ABU HAMAD, A.M.B.** Deposition and alteration of carbonaceous series within a neotethyan rift at the western boundary of the Arabian plate: the late Permian Um Irna formation, NW Jordan, a petroleum system. International Journal of Coal Geology, V. 81, N. 1, PP. 1-24, JAN 2010
6. Harald G. Dill, Reiner Botz, Zsolt Berner, and **A.M.B. Abu Hamad**. The Origin of Pre- and Synrift, Hypogene Fe-P Mineralization during the Cenozoic along the Dead Sea Transform Fault, Northwest Jordan Economic Geology, November 2010; 105: 1301 - 1319
7. JASPER, A., UHL, D., GUERRA-SOMMER, M., **ABU HAMAD, A.M.B.** & MACHADO, N.T.G., 2011. Charcoal remains from a tonstein layer in the Faxinal coalfield, Lower Permian, southern Paraná Basin, Brazil. Anais da Academia Brasileira de Ciência, 83(2), 471-481.
8. **ABU HAMAD, A.M.B.**, JASPER, A. & UHL, D., 2012. The record of Triassic charcoal and other evidence for palaeo-wildfires: Signal for atmospheric oxygen levels, taphonomic biases or lack of fuel? International Journal of Coal Geology, 96-97, 60-71.
9. H.D. Dill, A. Bachtel, Z. Berner, R. Botz, J. Kus, C. Heunisch, **A.M.B. Abu Hamad**. The evaporite-coal transition: Chemical, mineralogical and organic composition of the Late Triassic Abu Ruweis Formation, NW Jordan-Reference type of the “Arabian Keuper”. Chemical Geology, 298-299 (2012) 20-40.
10. Abdulkader M. Abed, **Abdalla Abu Hamad**, Hani Abul Khair, Ghazi Kraishan. Development of calcrete and clinofolds during emergence and flooding of the Late Cenomanian carbonate platform, Jordan. Facies DOI 10.1007/s10347-012-0333-1. Springer-Verlag Berlin Heidelberg 2012
11. **ABU HAMAD, A.M.B.**, JASPER, A. & UHL, D. Charcoal remains from the Mukheiris Formation of Jordan – the first evidence of palaeowildfire from the Anisian (Middle Triassic) of Gondwana. Jordan Journal of Earth and Environmental Sciences. V(5). 17-22 (2013).
12. JASPER, A., GUERRA-SOMMER, M., **Abu Hamad, A.**, BAMFORD, M., BERNARDES-DE-OLIVEIRA, M.E.C. TEWARI, R. & UHL, D. The Burning of Gondwana: Permian fires on the Southern Continent – a palaeobotanical approach. July 2013 Gondwana Research 24(1):148-160DOI: 10.1016/j.gr.2012.08.017
13. Ikhlas al-Hejoj, E. Salameh, and **Abdallah Abu Hamad.**, Deformed Fossils and Related Structures in Jordan. Jordan Journal of Earth and Environmental Sciences. V(5). 31-44(2013).

14. Bandel, K., **Abu Hamad, A.**, 2013. Permian and Triassic Strata of Jordan. L.H., Spielmann, J.A. and Lucas, S.G. (eds.) The Triassic System. New Mexico 5 Museum of Natural History and Science, Bulletin 61, 31–41. 6
15. Stolle, E., Nader, A., Al-Juboury, A., Al-Hadidy, A., **Abu Hamad, A.**, Dimitrova, T. High-Resolution Palynostratigraphy, Northern Arabian Plate –A Correlation Tool for Clastic Sequences. Search and Discovery Article #51036(2014) Posted October 27, 201
16. **Abu Hamad, A.**, Jasper, A., Uhl, D., Wood remains from the Late Triassic (Carnian) of Jordan and their paleoenvironmental implications, African Earth Sciences (2014), doi: <http://dx.doi.org/10.1016/j.jafrearsci.2014.03.011>
17. Mustafa al Kuisi, Kholoud Mashal, Mohammed Al-Qinna, **Abu Hamad, A.**, Armin Margana, (2014) Groundwater Vulnerability and Hazard Mapping in an Arid Region: Case Study, Amman-Zarqa Basin (AZB)-Jordan. Journal of Water Resource and Protection, 6, 297-318. <http://dx.doi.org/10.4236/jwarp.2014.64033>
18. **Abu Hamad** and D. Uhl. A new macroflora from the Middle Jurassic (Bathonian) of NW Jordan and its palaeoenvironmental significance. Neues Jahrbuch für Geologie und Paläontologie - Abhandlungen 278(1):109-122(2015)
19. **Abu Hamad A.**, F. Scholze, J. W. Schneider, V. Golubev, AG. Sennikov, S. Voigt and D. Uhl First occurrence of the Permian-Triassic enigmatic conchostracan *Rossolimnadiopsis Novozhilov*, 1958 from the Dead Sea, Jordan - preliminary report. Permophiles Issue #62 December 2015
20. **Abu Hamad, A.**, J. Fischer, S. Voigt, H. Kerp, J. W. Schneider, and F. Scholze. 2016. First Permian occurrence of the shark egg capsule morphotype *Palaeoxyris Brongniart*, 1828. Journal of Vertebrate Paleontology. DOI: 10.1080/02724634.2016.1112290
21. Abed, S. Taha, T. Hiasat and **Abu Hamad, A.**, Development of calcrete of the Late Cretaceous carbonate platform, northern Jordan, and its tectonic implications. Jordan Arab J Geosci (2016) 9:587 DOI 10.1007/s12517-016-2627-z
22. **Abu Hamad, A.**, B. Amireh, H. El Atfy, A. Jasper and D. Uhl. Fire in a Weichselia-dominated coastal ecosystem from the Lower Cretaceous (Barremian) of the Kurnub Group in NW Jordan. Cretaceous Research 66 (2016) 82e93
23. **Abu Hamad, A.**, B. Amireh, , A. Jasper and D. Uhl. New palaeobotanical data from the Jarash Formation (Aptian–Albian, Kurnub Group) of NW Jordan. The Palaeobotanist 65(2016): 19–290031–0174/2016
24. F. Scholze, **A. Abu Hamad**, J. W. Schneider, V. Golubev, AG. Sennikov, S. Voigt and D. Uhl An enigmatic ‘conchostracan’ fauna in the eastern Dead Sea Region of Jordan: First records of *Rossolimnadiopsis Novozhilov* from the Early Triassic Ma’in Formation January 2017 3P 466:314-325 DOI: 10.1016/j.palaeo.2016.11.047
25. **Abu Hamad**, P. Blomenkemper, H. Kerp and B. Bomfleur. *Dicroidium bandelii* sp. nov. (corystospermalean foliage). from the Permian of Jordan. PalZ (2017) 91:641–648 DOI 10.1007/s12542-017-0384-2
26. Issa Makhoulf, **Abu Hamad, A.**, and B. Moh’d. Sedimentology and depositional environments of the Ordovician Umm Sahm Sandstone Formation in southern Jordan. April 2017 Arabian Journal of Geosciences 10(7):178. DOI: 10.1007/s12517-017-2977-

27. Ikhlas Alhejoj, Klaus Bandel, **Abu Hamad, A** Comparative Study of Ringiculidae and Acteonidae (Architectibranchia, Gastropoda) from the Campanian Amman Silicified Limestone Formation and some Similar Species from the Fringing Reefs of the Gulf of Aqaba in Jordan. JEES 9, (2) 2018.
28. P. Blomenkemper, H. Kerp, **Abu Hamad, A.** W. A. DiMichele, B. Bomfleur. A hidden cradle of plant evolution in Permian tropical lowlands. December 2018 Science 362(6421):1414–1416 DOI: 10.1126/science.aau4061
29. **Abu Hamad, A.**, Bety Al-Saqarat, Cátia V. Gonçalves, Rafael Spiekermann · André Jasper and Dieter Uhl. The first record of Dicroidium from the Triassic palaeotropics based on dispersed cuticles from the Anisian Mukheiris Formation of Jordan. PalZ (2019) <https://doi.org/10.1007/s12542-019-00470-1>
30. **Abu Hamad, A.**, Benjamin Bomfleur. *Cryptokerpia sarlaccophora* gen. et sp. nov., an enigmatic plant fossil from the Late Permian Umm Irna Formation of Jordan Patrick Blomenkemper· PalZ (2019) <https://doi.org/10.1007/s12542-019-00466>
31. P. Blomenkemper, H. Kerp, **Abu Hamad, A., B.** Bomfleur Contributions towards whole-plant reconstructions of Dicroidium plants (Umkomasiaceae) from the Permian of Jordan March 2020 Review of Palaeobotany and Palynology 278:104210 DOI: [10.1016/j.revpalbo.2020.104210](https://doi.org/10.1016/j.revpalbo.2020.104210)
32. Al-Saqarat, B. S., Abbas, M., Lai, Z., Gong, S., Al Kuisi, M. M., **Abu Hamad, A.** M.B., Carling, P. A., Jansen, J. D. 2020. A wetland oasis at Wadi Gharandal spanning 125–70 ka on the human migration trail in southern Jordan. Quaternary Research 1–16. <https://doi.org/10.1017/qua.2020.82>
33. Klein, H., Gierliński, G., Lallensack, J. N., **Abu Hamad, A.**, Al-Mashakbeh, H., Alhejoj, I., Konopka, M. & Błoński, M., 2020. First Upper Cretaceous dinosaur track assemblage from Jordan (Middle East) – preliminary results. Annales Societatis Geologorum Poloniae, 90
34. Natalia Zavialova , Patrick Blomenkemper , Hans Kerp , **Abu Hamad, A.**, & Benjamin Bomfleur (2020): A lyginopterid pollen organ from the upper Permian of the Dead Sea region, Grana, DOI: 10.1080/00173134.2020.1772360
35. Blomenkemper P, Bäumer R, Backer M, **Abu Hamad, A.**, Wang J, Kerp H and Bomfleur B (2021) Bennettitalean Leaves from the Permian of Equatorial Pangea—The Early Radiation of an Iconic Mesozoic Gymnosperm Group. Front. Earth Sci. 9:652699. doi: 10.3389/feart.2021.652699
36. **Abu Hamad, A.**, (Submitted) Further evidence from pollen organs for Late Permian Dicroidium from the Umm Irna Formation, Jordan
37. **Abu Hamad, A.**, (Submitted) Dispersed gymnosperm cuticles from the Mukheiris Formation of Jordan – a (preliminary) glimpse into palaeotropical phytodiversity during the Anisian (Middle Triassic)

### Abstracts of Oral Presentations:

1. Hans Kerp, **Abu Hamad, A.**, Klaus Bandel & Birgit Niemann The 15th Plant Taphonomy Meeting was held in Leiden (Isabel van Waveren and Han van Konijnenburg-van Cittert), Naturalis, National Museum of Natural History, The Netherlands, 12-13th November 2004

2. Hans Kerp, **Abu Hamad, A.**, Klaus Bandel & Birgit Niemann Workshop on Permian - Triassic Paleobotany and Palynology Bolzano / Bozen (Italy), June 16-18, 2005 Poster Presentations, Abstracts A new Upper Permian flora from the Middle East with typical Triassic Gondwana elements
3. Uhl, D., Jasper, A. & **Abu Hamad, A.**, 2006. Filling a gap in the fossil record of charcoal—Recent records of Permian Wildfires. 7th European Palaeobotanical and Palynological Conference, September 6 - 11, 2006, Prague, Czech Republic. Program and Abstracts, 145.
4. Jasper, A., Uhl, D., **Abu Hamad, A.**, & Montenari, M., 2008. Os incêndios vegetacionais do Permiano e do Triássico e os níveis atmosféricos de oxigênio (AO156). In: X Mostra de Ensino Extensão e Pesquisa da UNIVATES - X MEEP, 2008, Lajeado. Anais da X MEEP. Lajeado : Editora da UNIVATES, 2008.
5. Mustafa Al Jaar and **Abu Hamad, A.**: Compost uses. International symposium of Natural Resources and Environment, Amman Jordan 13-14/05/2009.
6. Uhl, D., Jasper, A., **Abu Hamad, A.**, 2010. The record of Triassic charcoal and its potential palaeoenvironmental implications. 8th European Palaeobotanical and Palynological Conference, July 6 - 10, 2010, Budapest, Hungary. Program and Abstracts, 233-234.
7. Jasper, A., **Abu Hamad, A.**, & Uhl, D., 2010. The Triassic macroscopic charcoal-gap: palaeoenvironmental, taphonomic and methodological implications. In: XIII Simpósio Brasileiro de Paleobotânica e Palinologia, 2010, Salvador. Anais do XIII SBPP. Salvador : Editora da UNEB, 2010(1), 251.
8. Jasper, A., Uhl, D., **Abu Hamad, A.**, Secchi, M., Manfroi, J., Beuren, J., Machado, N.T.G., Gonçalves, C.V., 2011. Using paleoclimatic models to understand modern global climate: the Permo-Triassic example. In: 5. Deutsch-Brasilianisches Symposium - Nachhaltige Entwicklung, 2011, Stuttgart. Tagungsband des 5. Deutsch-Brasilianisches Symposium - Nachhaltige Entwicklung. Tübingen : Baden-Württemberg International, 2011. v. 1. p. 50-51.
9. Jasper, A., Guerra-Sommer, M., Uhl, D., **Abu Hamad, A.**, Bernardes-de-Oliveira, M.E.C., Bamford, M., Ghosh, A., 2011 . Macroscopic charcoal as direct evidence of wildfires in the Permian Gondwana. In: Gondwana 14 - Reuniting Gondwana: East meets West, 2011, Búzios. Abstracts of the Gondwana 14. Rio de Janeiro : Editora da UFRJ, 2011. v. 1. p. 184-185.
10. Manfroi, J., Jasper, A., Secchi, M.I., Uhl, D., **Abu Hamad, A.**, 2011. Registro de paleoincêndios vegetacionais no afloramento Morro do Papaléo, Rio Grande do Sul, Brasil. [Extended abstract] Atas do XXII Congresso Brasileiro do Paleontologia – Natal, outubro de 2011, 359-362.
11. **Abu Hamad, A.**: Palynostratigraphy of the Permo-Triassic boundary in Jordan. International conference of Jordanian Geologist Association and the 7th international symposium of Middle East Geology, Amman Jordan 3-5/4/2011.
12. **Abu Hamad, A.**, Jasper, A. & Uhl, D., in press. The record of Triassic charcoal and other evidence for palaeo-wildfires: Signal for atmospheric oxygen levels, taphonomic biases or lack of fuel? Annual meeting of the Paläontologische Gesellschaft, September 2012 in Berlin.

13. **Abu Hamad, A.**, 2017 A late Permian Tropical Cocktail. The mixed flora of the Um Irna Formation from Jordan March 2017. Conference: Der Paläontologischen Gesellschaft Jahrestagung-88At: Münster, Germany Date March 2017 Nature of contribution Participant

### Abstracts poster:

UHL, D., JASPER, A. & **Abu Hamad, A.**, 2009. Gibt es eine post-permische „Holzkohlenlücke“? – Neue Funde triassischer Holzkohle. In: 79. Jahrestagung der Paläontologischen Gesellschaft, Bonn 2009, Kurzfassungen der Tagungsbeiträge. Terra Nostra, Heft 2009/3, 117.

### WORK EXPERIENCE

- 1991-1993: Geologist in Natural Resources Authority Geological Mapping Division. Ministry of Energy and Mineral Resources (MEMR) Amman/Jordan,
  - 1994-1998: Teacher in the Secondary School for Earth science and Chemistry. Ministry of Education Amman, Jordan.
  - June, 1999- June 2004 Geologist at the mapping Division NRA
  - July 2000- Nov, 2004 Ph.D student at Hamburg University and Muenster University.
  - Nov, 2004–July 2005: Post-doctoral Researcher (Forschungsstelle für Paläobotanik Münster-Germany.
  - August 2005- January 2006 Geologist at the mapping Division NRA.
  - 2010-2012 local consaltance for Total, Petrobras and Kiwar Companies during the oil shale Project
  - 2010- Present local consaltante for Site Group company in Jordan.
  - The organizer of the 14th International Permo-Triassic workshop Field Workshop Dead Sea area, Jordan, March 4–11, 2017.
  - More than 57 published scientific article in highly ranked International Journal. e.g. Science Journal (<https://science.sciencemag.org/content/362/6421/1414.full>)
  - Reviewer for many International scientific Journals.
  - Computer skills: you can add it please
- Currently position:** 12 Feb. 2006 – Professor of Biostratigraphy and Field Techniques at The University of Jordan.

Arabic native speaker

Very Good (reading, writing, and speaking) ● English ● German

### SCHOLARSHIPS

- **June – Sept. 2012** Research scholarship at Senckenberg Forschungsinstitut und Naturmuseum Frankfurt/Germany from the German Research Foundation (DFG) / Germany.
- **Sept. -January 2013** Research scholarship at Munster University from The University of Jordan.



- **15 June - 30 July 2016** Scientific visit funded from Research Foundation (DFG) Germany to Muenster University, Germany.
- **01 - 30 July 2017** Scientific visit funded from Research Foundation (DFG) Germany to Muenster University, Germany.
- **05 June – 5 July 2018** Scientific visit funded from Research Foundation (DFG) Germany to Muenster University, Germany.
- **13-18 May 2019** 15<sup>th</sup> International Permian- Triassic workshop attendance, Sardinia, Italy.
- **19May-15 July 2019** Scientific visit funded from Research Foundation(DFG) Germany to Muenster University, Germany.
- **The organizer of the 14<sup>th</sup> International Permo-Triassic Workshop Field** Workshop Dead Sea area, Jordan, March 4–11, 2017.
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## **MEMBERSHIPS**

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- **1990** Jordan Geological Association
- **2001** German Geological Association
- **2012** German Palaeontological Association
- **2019** Editorial board of JJEES, Jordan



## REFERENCES

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