

Hussam Ghanem, Senior Hydrogeophysist and 3D Modeler**Curriculum vitae****Personal facts**

Birthday, -place: 20.08.1978, Safita
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**Studies**

02/11/2012 PhD (Dr. rar. nat.). Geochronology department, FB5, Bremen University, Germany.
Thesis: "Stratigraphic evolution of the North Levant Platform (Syria) during Aptian to Early Turonian".
03/2004- 02/2006 Master Degree (Structural Geology). Faculty of Science at Aleppo University, Syria. (based on well logging).
Thesis: "Paleotectonic and Sedimentary Study of (Jurassic and Cretaceous) Deposition in Addaw depression in Palmyrides Area".
10/2002- 09/2003 Diploma of high studies in petrology and geochemistry. Geology Department Faculty of Science of Damascus University- Damascus Syria.
09/1998- 07/2002 B.A in Geology. Geology Department Faculty of Science of Tishreen University – Lattakia Syria.

Practical experience

01/2014 Hydro-geophysics Electrical/Electromagnetic Methods, Georadar, Well logging, Interference, Well Test and Camera Viewing, Syria, Lebanon, Qatar.
05/2008 Petroleum and Regional geological studies, basin reconstruction, static modelling for oil, gas fields, Syria, Libya, Lebanon, Iraq, Jordan, UAE.
01.2017-12.2020 Postdoc Scientist at the University of Bremen.
10/2008 Sedimentologist, Petroleum-Geologist and Stratigraphist, studying Germanic Basin, North Arabian Platform (Levantine, Mesopotamia), and Svalbard: specialize in a variety of sediment, petrographic, sedimentologic and sequence stratigraphy disciplines (Carbonate Reservoirs and Clastic Fluvial System) including e. g. microfacies analysis, benthic and planktic foraminifera identification in the thin-sections, Petrology, Field Geology (Syria, Germany, Italy, Switzerland, and Austria), Geochemical analyses (Isotopes, SEM, XRD, XRF), Seismic, well logs, Magnetic Susceptibility. (Lower Paleozoic- Triassic, and Cretaceous).
Since 02/2015 Project Manager, working in the field of Hydrogeology, Geophysics (electrical methods), Well Logging and Aquifer Estimating.
01/ 2014-12/2015 Project Manager at Geoflint Lebanon. Environmental and Sedimentological studies of Qartaba Anticline and Jannah Valy of Naher Ibrahim, for Environmental Agency of Lebanon.
01/2006- 11/2006 Oil field mud Logger in Petro-service Syria.

Academic Position

Since 01/2017-2020 Geo-Scientist, Geo-chronological and Basin Analysis Department, Bremen University, Germany, (Post-doc Researcher and Lecturer).
02/2013- 12/2016 Senior lecturer in Albaath University. Teaching subjects: Sedimentology, Structure Geology.
11/2006 - 06/2008 Assistant lecturer in Albaath University (petroleum Engineering student). Teaching subjects: Historical geology, Structure Geology.

Projects & Research

03/2022- 08/2023 Hydro/geophysical and Environmental studies of Baladna Farms, Ash-Shamal, Qatar.
03/2016-08/2016 Geological and petroleum studies for Middle Libya Oil Fields, with Gulfsands Petroleum Company. (Consultant)
Since 2017 Electrical survey studies in Lebanon for Cretaceous and Jurassic aquifers.
Since 2014 Electrical survey studies looking for Cretaceous and Jurassic aquifers in Syrian desert, and Coastal Range of Syria.
2014/2017 Geological and petroleum studies, Northern Syria, Western Syria with Gulfsands Petroleum Company. (Consultant)
2016-2020 Intrinsic-extrinsic factors controlling depositional processes on an Anisian carbonate ramp (Lower Muschelkalk, Thuringia). financed by Alexander von Humboldt postdoc scholarship (Philippe Schwartz-Initiative).
Since 2014 Cenozoic and Mesozoic aquifers estimating in Lebanon and West Syria.
01/ 2014- 08/2014 Sedimentary evolution of Nahr Ibrahim deposits (river basin and watersheds), (the sedimentation and environmental studies of Janne Dam project).

-01/2010- 12/2012	Platform evolution in the Paleogene of Syria, <i>Scheibner, Cakir, Ghanem</i>
2008 - 2012	Stratigraphy evolution of carbonate platforms during Ichhouse and greenhouse periods in Syrian und Svalbard deposits.
2008 - 2010	Depositional architecture of a Miocene structurally controlled sub-basin of the Gulf of Suez - a collaborative project financed by the Egyptian government, Kuss, Abd-El Naby, Boukhary.
2008 - 2012	Stratigraphic evolution of the North Levant Platform (Syria) during Aptian to Early Turonian, financed by DAAD Scholarship.
Since 01/2007	Member of North Africa geological group, Geo-chronological Department, Bremen University, Germany.

Publications

- Ghanem H., Kuss J. (submit): Sequences, Facies and log response of carbonate platform from Aptian to Early Turonian of Syria.
- Ghanem H., Kuss J. (2019): Stratal geometries and patterns of a new Middle Cretaceous evidence and model of north Arabian Platform (CAJG-2018) Hammamet, Tunisia.
- Kuss J., Ghanem H. (2017): Mudstone of the Lower Muschelkalk (Anisian). Poster presentation: Geo- bremen Bremen, Germany.
- Ghanem H., Kuss J. (2013): Stratigraphic control of the Aptian - Early Turonian sequences of the Levant Platform (Northwest Syria - Coastal Range). *GeoArabia* 18: 85- 132.
- Ghanem H (2012): Stratigraphic evolution of the North Levant Platform (Syria) during Aptian to Early Turonian, Bremen University urn:nbn:de:gbv:46-00102846-17. <http://elib.suub.uni-bremen.de/edocs/00102846-1.pdf>
- Ghanem H., Mouty M., Kuss J. (2011): Biostratigraphy and Carbon-isotope stratigraphy of the uppermost Aptian to Late Cenomanian strata of the Southern Palmyrids, *GeoArabia* 17: 155-184.
- Abd El-Naby A., Ghanem H., Boukhary M., Abd El-Aal M., Lüning S., and Kuss J. (2010): Stratigraphy Interpretation of structurally controlled Deposition: Middle Miocene Kareem Formation, Southwestern Gulf of Suez, Egypt. *GeoArabia* 15: 129-150.
- Ghanem H., Mouty M., Kuss J. (2010): Chemo- and biostratigraphy studies of the uppermost Aptian to Late Cenomanian strata of the South Palmyrids. Poster presentation: Forams Bonn, Germany.
- Ibrahim, M., Ghanem, H. (2008): Sedimentary and Structural Evolution of Euphrates, Homs- Ad-Daww depressions (Palmyrides Basin) during Mesozoic. *Albaath - Syria*. 37.
- Ghanem, H. Ibrahim, M. Al- Darais, M. (2006): The Dynamic of the Ad-Daww Depression during Jurassic. *Albaath - Syria*. 25.

Skills

Languages

English: fluently (Unicert grade III), German: very good (B2) now (in C1 course), Arabic: Native.

Computing:

- Peterl, Paleoscan, Geocad, Rose, ODM, Surfer, Grapher, Arc GIS, Auto- CAD (very good)
- Microsoft Windows (XP, Vista, 7), Microsoft Office (very good)
- Various graphic softwares (e.g. CorelDRAW, Photoshop, Photobrush) (very good).
- Programming skills (Matlab) (good knowledge).
- GSM Hydrogeological System Modelling. (good knowledge)
- IPI2win Resistivity sounding interpretation (very good)

Petroleum Geology:

Exploration studies, Evaluations of the petroleum system element, and Field developments, Seismic attribute interpretations, Static modelling and Software 3D modelling.

Geology:

Broad Specialty: Sedimentology- Stratigraphy- Paleontology- Geophysics.
Sub- Specialty: Carbonate Sedimentology, Biostratigraphy, Sequence Stratigraphy, Field geology, Geochronology, Basin Analysis, Microfacies Analysis, Cretaceous Foraminifera, Geochemical analyses ($\delta^{13}\text{C}$), seismic, well logs (gamma ray, sonic) interpretations, electrical profile interpretations.

Geophysics:

Electrical/Electromagnetic Methods, Georadar, Well logging, Interference test, Well Test, and Tv-Camera logging for both Groundwater and Constructions.

Hydrogeology: Hydrogeological modelling, Aquifer studies.