

Fuad Hourani

Ph-D in Environment and Archaeology

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- ✓ Associate Professor, Faculty of Archaeology and Tourism, The University of Jordan. f.hourani@ju.edu.jo
- ✓ Associate research fellow: "UMR 7041: Archéologie & Science de l'Antiquité" (ArScAn) -CNRS, Univ. Paris I, Univ. Paris X- France. fouad.hourani@mae.u-paris10.fr
- ✓ Member of the scientific committee of the international pluridisciplinary review of the prehistory and protohistory of Southwest Asia "Paléorient" - CNRS editions - France.
- ✓ Director of the Archaeological Excavations Project at Zaquma / Middle Jordan Valley.
- ✓ Co-director of the Jordano-French Archaeological Excavations Project (LaPJoP) at Abu Habil / Jordan Valley.

Domain of interest

Near Eastern/Eastern Mediterranean Prehistory; landscape/on-site geoarchaeology; paleoenvironment / paleoclimate; natural/cultural heritage management & conservation.

Education

- Ph-D in Environment & Archaeology: Institut National Agronomique - Paris 2002 ; Doctoral grant from the French Ministry of Foreign Affairs; thesis : "Le cadre paléogéographique des premières sociétés agricoles dans la vallée du Jourdain. Etude de l'impact des événements climatiques de l'Holocène ancien sur la dynamique du peuplement humain" ;
- DEA (Master II) in Environment & Archaeology: Université Paris I-Sorbonne, 1993; thesis : "Microstratigraphie et organisation spatiale du site néolithique de Ja'deh (Syrie). Etude micromorphologique".
- Maîtrise (Master I) in Archaeology: Université Paris I-Sorbonne, 1992 ; thesis : "Jéricho à l'Age du Bronze ancien"
- Certificate of French Language & Civilization: Sorbonne, 1985.
- BA in Archaeology: Jordan University-Amman, 1981.

Other laboratory training

- Remote sensing by radiometry. Laboratoire de géophysique / CNRS. Garchy, France, 1993.
- Satellite remote sensing (satellite imagery analyses). Laboratoire PRODIGE / CNRS / Institut Géographique de Paris, 1995.
- Extraction / analyses of Phytoliths. Laboratoire de Préhistoire Orientale / CNRS. Jalès, France, 1996

Experience

- Post-doctoral research fellow, Maison de l'Archéologie et de l'Ethnologie, UMR 7041-ArScAn - CNRS, France, 2002-2004 and 2007-10
- Post-doctoral research fellow, Leiden University - Faculty of Archaeology- "Settling the Steppe Project", The Netherlands, 2004-07.

- Cultural attaché at UNESCO, 1985-87

Research programs fellowship

- “Settling the Steppe” Project - Leiden University: in charge of the physical landscape sub-project. Since 2004
- French archaeological mission at Khirokitia (Cyprus) – CNRS: in charge of the research on the Paleogeography and paleoclimate of the site, on the site formation process and on the earthen construction materials. Since 1998
- Jordano-French joint project of Tell Abu Hamid; CNRS & Yarmuk University: in charge of the research on the paleolandscapes and paleoclimates of the Middle and Lower Jordan Valley. Since 1994.
- The University of Basel, University of Jordan and Yarmuk University research project “The first human settlements on the left bank of the Jordan valley”. Since 2015

Cooperation with other research programs

- Brown University Petra Archaeological Project. 2011
- The University of Jordan Excavations at Tell Al-Sowan. Since 2008.
- The Wadi Rayan Archaeological Project (Jordan), Council for British Research in the Levant (CBRL) & The University of Sydney. Since 2007.
- The French Archaeological mission at Shillourokambos (Cyprus). Since 2005.
- The University of Sydney Expedition at Pella and Teleilat Ghassul - Jordan. Since 1995.

Research grants

- "Appel d'offre CNRS (France) 2003": Paleoenvironment of the Jordan Valley.
- "Appel d'offre CNRS (France) 2004 + 2005": Paleoenvironment of the Upper Zarqa Valley.

Publications

1. Articles

- DAUNE-LE BRUN, O., HOURLANI, F., LE BRUN, A. (2017). Khirokitia (Chypre, VIIe-VIe millénaires av. J. C.), la séquence stratigraphique dans son contexte. *Séance de la Société préhistorique française*, 9, pp. 217-228. Société préhistorique française, Paris
- RETO JAGHER, DOROTA WOJTCZAK, LE TENSORER, MAYSOON AL-NAHAR, KHALED ABU GHANEIMEH, FUAD HOURLANI, ARCADIO SANSON, FRANZISKA FOLLMANN, SARAH LO RUSSO, SEREEN AL SHOUBAKI, HELENE LE TENSORER. (2017). *The First Human Settlements on the Left Bank of the Jordan Valley –Report of the 2015 and 2016 seasons*. SLSA Rapport annuel 2017. pp. 239-266. SLSA Publications

- LE TENSORER, J-M., JAGHER, R., AL-NAHAR, M., ABU GHANEIMEH, K., HOURLANI, F., LE TENSORER, H., WEGMULLER, F., SANSON, A., FALKENSTEIN, V. (2016). The First Human Settlements on the Left Bank of the Jordan Valley – Outcome of the 2015 Survey. *SLASA Annual report 2015*, pp. 161-178. SLASA Publications
- BERGER, J-F., LESPEZ, L., KUZUCUOGLU, C., GLAIS, A., HOURLANI, F., BARRA, A., GUILAINE, J. (2016). Interactions between climate change and human activities during the early to mid-Holocene in the eastern Mediterranean basins. *Climate of the Past*, 12, pp. 1847-1877. Copernicus Publications.
- STUTZ, A.J., SHEA, J.J., BELMAKER, M., RECH, J., PIGATI, J., WILSON, J., ALBERT, R.M., ARPIN, T., CABANES, D., CLARK, J.L., HARTMAN, G., HOURLANI, F., WHITE, C.E. NILSSON STUTZ, L.G. (2015). Early Upper Paleolithic Chronology in the Levant: New ABOX-SC AMS Results from the Mughr el-Hamamah Site, Jordan, *Journal of Human Evolution*, 85, pp. 151-173.
- HOURLANI, F. (2011). Les matériaux de construction en terre. Etude au microscope des composants et des techniques de fabrication. In J. Guillaîne *et al.*, (éd.); *Shillourokambos, un village néolithique précéramiques à Chypre*, pp. 631-648. Paris : Errance
- HOURLANI, F. (2010). Late Chalcolithic/early Bronze I transition settlements in the Middle Jordan Valley: Investigating alluvial sequences as a chronostratigraphical framework, and cycles as a social organising component. *Paléorient*, 36. 1. pp. 119-135. Paris: CNRS éditions.
- HOURLANI, F., KAPTIJN, E., PETIT, L., AL-GHUL, O., VAN DER KOOIJ, G. (2009). Dayr 'Alla Regional Project: Settling the Steppe (Third Campaign 2006). In: *Annual of the Department of Antiquities of Jordan*, Vol. 52. pp. 427-433. Amman : Department of Antiquities
- HOURLANI, F. (2008). Khirokitia (Chypre): un village néolithique les pieds dans l'eau. In : Gumier-Sorbets, ; A.-M., (éd.) ; *L'eau. Enjeux, usages et représentations (Colloques de la Maison René-Ginouvès,5)*. pp. 159-169. Nanterre.
- ASTRUC, L., DAUNE-LE BRUN, O., LE BRUN, A., HOURLANI, F. (2008). Un atelier de fabrication de récipients en pierre à Khirokitia (Néolithique pré-céramique récent, VIIe millénaire av. JC, Chypre). In Cordoba J. M., Molist M., Perez M. C., Rubio I., Martinez S. (eds), *Proceedings of the 5th international Congress on the Archaeology of Ancient Near East (ICAANE) I*, p. 175-186. Madrid: UAM Editions.
- PETIT, L., KAPTIJN, E., HOURLANI, F., AL-GHUL, O., GROOTVELD, E., & VAN DER KOOIJ, G. (2006). Dayr 'Alla Regional Project: Settling the Steppe (Second Campaign 2005). In: *Annual of the Department of Antiquities of Jordan*, Vol. L: pp 179-188 Amman : Department of Antiquities
- HOURLANI, F. (2006). Rivière et habitat à Khirokitia (Chypre). Etude de l'évolution hydro-géomorphologique du bassin du Maroni et de son impact sur l'installation néolithique pré-céramique. *Cahiers des thèmes transversaux ArScAn VI – 2005/2006*, pp. 128-134. Nanterre
- KAPTIJN, E., PETIT, L., GROOTVELD, E., HOURLANI, F., VAN DER KOOIJ, G., & AL-GHUL, O. (2005). Dayr 'Alla Regional Project: Settling the Steppe (First Campaign 2004). In: *Annual of the Department of Antiquities of Jordan*, Vol. XLIX: pp 89-99. Amman : Department of Antiquities.
- HOURLANI, F. (2004). Les témoins microscopiques des techniques de préparation des matériaux de construction en terre. Exemples des sites néolithiques de Khirokitia et de Shillourokambos à Chypre. *Cahiers des thèmes transversaux ArScan IV – 2002/2003*, pp. 144-146. Nanterre
- HOURLANI, F. (2003). Les matériaux de construction en terre à Khirokitia (Chypre): origine, techniques de préparation et emplois. In : de Chazelles, C-A. et Klein, A. (éds.) ; *Echanges transdisciplinaires sur les architectures et les constructions en terre crue*, 1. pp. 161-168. Montpellier: Edition de l'Espérou.

- HOURANI, F. (1999). Natural constraints, space organisation models and rhythm of occupation at Abu Hamid during the seventh and the sixth millennium BP. In: *Studies in the History and Archaeology of Jordan*, No. VI. pp. 67-76. Amman: Department of Antiquities.
- HOURANI, F. & COURTY, M.-A. (1998). L'évolution morpho-dynamique de 10,500 à 5,500 BP dans la vallée du Jourdain. *Paléorient*, vol. 23.2: 95-105. Paris: CNRS éditions.
- HOURANI, F. (1997). Régions et reliefs d'un pays aux franges du désert. *Jordanie sur les pas des archéologues*. pp. 15-21. Paris : Institut du monde Arabe.
- PALUMBO, G., MUNZI, M., COLLINS, S., HOURANI, F., PERUZZETTO, A. & WILSON, M. D. (1996). The Wadi AZ-Zarqa / Wadi Ad-Dulayl Excavations and Survey Project. *Annual of the Department of Antiquities of Jordan J*, vol. XL. pp. 375-422. Amman : Department of Antiquities.
- CHESSON, M.S., FLENDER, M., GENZ, H., HOURANI, F., KUIJT, I. & PALUMBO, G. (1995), Tell es-Sukhne North: An Early Bronze Age II Site in Jordan. *Paléorient*, vol. 21/1, pp. 113-123. Paris: CNRS éditions.

2. Book review

- Brett Hill, J. (2006). *Human Ecology in the Wadi Al-Hasa, Land Use and Abandonment Through the Holocene*, Tucson: The University of Arizona Press. By F. Hourani; *Paléorient*, 2006, 32 (2): 202-204.

3. Book translation

- Dollfus, G. (2007). *The story of Anakou : In the Jordan Valley, 6000 years ago...a child meets some archaeologists*. CD-ROM. French Embassy in Amman - The Cooperation and Cultural Affaires Service. Translation from French to Arabic by Fuad Hourani.

Unpublished work:

- HOURANI, F. (2006). Manual for geoarchaeological researches in the Jordan Valley. Leiden University, Faculty of Archaeology, Leiden.
- HOURANI, F. (2002). *Le cadre paléogéographique des premières sociétés agricoles et agropastorales dans la Vallée du Jourdain*. PhD thesis. Institut National Agronomique, Paris.
- 22 reports on fieldwork and other research activities since 1995.

Communications presented at national and international symposiums

As single author:

- 2016: *Evaluating the Early Anthropocene Hypothesis: The Impact of Early Farming Economies on East and West Asia*. University of Copenhagen, Copenhagen, Denmark, 18-19 February 2016. "Environmental change in the Jordan Valley from 15 ka to 5 ka BP: the predominance of natural effects"
- 2015: *Protecting the Past: Archaeology, conservation and tourism in the north of Jordan*. Jordan Museum, Amman, 28-30 September 2015. "Late Prehistoric landscapes of Northern Jordan: A perspective from the Jordan Valley".
- 2011: *Workshop on Current Research on Protohistoric Settlement in Desert Areas of Jordan*. Inst. Français du Proche Orient & Al Hussein University, Petra, Jordan, 12-13 July 2011. "Geoarchaeological Perspective on the Late Chalcolithic / Early Bronze Age Transition in Southern Levant".

- 2011: *Table ronde (Workshop): Nouvelles données sur les débuts du Néolithique à Chypre (New data on the beginning of the Neolithic in Cyprus)*. Muséum National d'Histoire Naturelle, Paris, France, 23-24 March 2011. "Khirokitia et l'évènement climatique de 8000 BP, concrètement (Khirokitia and the 8th millennium BP climatic event, concretely)".
- 2010: *Workshop PaleoMex: Impacts of climate variability and societal forcings in the Mediterranean since the Neolithic*. Maison de l'Orient Méditerranéen. Lyon, France, 18-19 November 2010. "Landscape changes and settlement dynamics in southern Levant and Cyprus during the Early to Mid-Holocene: The examples of the Jordan Valley and Khirokitia".
- 2010: *11th International Conference on the History and Archaeology of Jordan (ICHAJ 11)*. Paris, France, 7-14 June 2010. "The Natufian Culture and the Transitional Pleistocene/Holocene Environments in the Jordan Valley: New data".
- 2010: *International Congress on Archaeological Sciences in the Eastern Mediterranean and the Near East (ASEMNE)*. Paphos, Cyprus, 29 April – 1 May 2010. "Climate changes and settlement dynamics at the turn of the 7th/6th millennium cal. BC in Cyprus and southern Levant".
- 2009: *1st meeting on the Prehistory of Jordan*. Amman, Jordan, 25-28 May 2009. "Environmental perspectives on the late prehistoric settlements in the Jordan Valley".
- 2008: *6th International Congress on the Archaeology of the Ancient Near-East (ICAANE)*. Rome, Italy, 05-10 Mai 2008. "The structuring effects of agriculture and irrigation on ancient societies in the Zarqa Triangle (Jordan Valley)".
- 2007: *Colloque de la maison René-Ginouvès; L'eau: enjeux, usage et représentations*. Nanterre, France, 06-08 Juin 2007. "Khirokitia (Chypre): un village néolithique les pieds dans l'eau".
- 2006: *5th International Congress on the Archaeology of the Ancient Near-East (ICAANE)*. Madrid, Spain, 03-07 April 2006. "Paleogeographical development and settlement phases in the Jordan Valley from the early Neolithic through the Iron Age".
- 2006 : *Thème transversal n°7 : Outils et méthodes de la recherche - les dégraissants*. Maison René Ginouvès : Archéologie et Ethnologie, Nanterre, France, Février 2006. "Les dégraissants minéraux et végétaux dans les matériaux de construction en terre : reconnaissance et différenciation en lames minces des éléments inhérents et rajoutés".
- 2006 : *Thème transversal n°8: Bâti et habitat- L'architecture et l'eau*. Maison René Ginouvès: Archéologie et Ethnologie, Nanterre, Janvier 2006. "Rivière et habitat à Khirokitia (Chypre). Etude de l'évolution hydro-géomorphologique du bassin du Maroni et son impact sur l'installation du Néolithique Pré-céramique".
- 2003 : *Thème transversal n°8: Bâti et habitat- technique de l'architecture de terre*. Maison René Ginouvès: Archéologie et Ethnologie, Nanterre, France, Mars 2003. "Les témoins microscopiques des techniques de préparation des matériaux de construction en terre".
- 2003: *Eastern Mediterranean / Near Eastern Geoarchaeology Meeting*. Tübingen, Germany, 22-23 May 2003. "Changes observed in the Holocene Jordan Valley landscapes: their climatic significance and cultural implications".
- 2002: *International conference on science and technology in archaeology and conservation*. Hashemite University, Amman + Zarqa, 12-18 August 2002. "Landscapes and climate in the Jordan Valley during the Neolithic and Chalcolithic".
- 2002: *International conference on science and technology in archaeology and conservation*. Hashemite University, Amman-Zarqa, 12-18 August 2002. "Earth construction material at Khirokitia (Chypre): a micromorphological study".
- 2001: *Echanges transdisciplinaires sur les architectures et les constructions en terre crue*. Ecole d'architecture de Montpellier, Montpellier, Novembre 2001. "Les matériaux de construction en terre à Khirokitia (Chypre): origine, techniques de préparation et emplois".

- 1998: 2nd *International conference on global climatic changes*. Yarmuk University, Irbid, May 1998. "The soil record of early Holocene climatic changes in the Jordan valley".
- 1997: *Séminaire sur les marges arides. Maison de l'Orient Méditerranéenne* - Université Lyon II, Lyon, France, Janvier 1997. "Séquences sédimentaires et évolution de la vallée du Jourdain au Néolithique et au Chalcolithique"
- 1996: *International workshop on the 5th-4th millennium BC in Jordan*. Institute of Archaeology and Anthropology – Yarmuk University, Irbid, March 1996. "Abu Hamid, Pella and Ghassul: comparative study of the sedimentary deposits".
- 1995: 6th *International conference of the History and Archaeology of Jordan*. Torino-Italy, June 1995. "Natural constraints, space organisation models and rhythm of occupation at Abu Hamid during the seventh and sixth millennium BP".

With others:

- 2015: *Nouvelles données sur les débuts du Néolithique à Chypre*. Muséum national d'Histoire naturelle, Paris, France, 18-19 March 2015. "Le village et la rivière : nouvelles données sur l'évolution de Khirokitia". O. Daune-Le Brun & F. Hourani.
- 2011: *International Conference of the Çatalhöyük West Mound Project; Times of Change, The Turn from the 7th to the 6th Millennium BC in the Near East and Southeast Europe*. Free University Berlin, Berlin, Germany, 24-26 Novembre 2011. "Changing with the Years: Khirokitia in Cyprus at the Turn of the 7th- 6th Millennium". O. Daune-Le Brun, F. Hourani & A. Le Brun.
- 2010: *International Congress on Archaeological Sciences in the Eastern Mediterranean and the Near East (ASEMNE)*. Paphos, Cyprus, 29 April – 1 May 2010. "Investigating Neolithic earthen architecture at Khirokitia-Cyprus (VIIth-VIth mill): ethno-archaeology, experimentation and micromorphology". O. Daune-Le Brun & F. Hourani.
- 2006: 5th *International Congress on the Archaeology of the Ancient Near-East (ICAANE)*. Madrid, Spain, 03-07 April 2006. "Un atelier de fabrication de récipients en pierre à Khirokitia (Néolithique pré-céramique récent, VII^e millénaire av. JC, Chypre)". L. Astruc, O. Daune-Le Brun, A. Le Brun & F. Hourani.

Posters

- 2005: Exhibition; *European-Jordanian Cooperation in the Field of Archaeology in Jordan. Meetings with the Past: Treasures for the Future*. Amman, Darat al Funun, May-July 2005; European Union, Royal Netherlands Embassy & The Khalid Shoman Foundation. "The Jordan Valley Landscapes and Climate during the Neolithic and the Chalcolithic".
- 1997 Exhibition ; *Jordanie sur les pas des archéologues*, Institut du Monde Arabe. Panner (1) Map of Jordan ; Panner (2) Jordan : Land and history.

Seminars/Lectures (for researchers and post-graduate students)

- Friedrich Alexander University – Erlangen, Germany, Institute of Geography, 1/2/2017. « Soil Micromorphology :an approach to the study of paleoenvironments and past human behavior ».
- The Friends of Archaeology, Amman, 12 Novembre 2010. "*Environmental changes in the Jordan Valley from the Early Natufian through the Early Bronze Age:Their climatic significance and cultural implications*".
- Université Paris I ; Préparation aux concours des conservateurs du patrimoine; 22 June 2010. « *Climat, paysage et société ancienne en Méditerranée orientale : impacts et reconstitutions* ».

- Université Paris I ; Programme Master II (le Néolithique); 7 Nov. 2009. « *Le Néolithique de Chypre et l'évènement climatique de 8,200 cal BP* ».
- Université Paris I ; Préparation aux concours des conservateurs du patrimoine; 07 avril 2009. « *Changements climatiques et sociétés agricoles ancienne en Méditerranée orientale : impacts et reconstitutions* ».
- Université de Tours (France); 02 avril 2008. « *Changements environnementaux et phases de peuplement humain en Jordanie septentrionale au cours de l'Holocène. Reconstitutions paléogéographiques micro-régionales* ».
- Leiden University (The Netherlands) - Faculty of Archaeology; 27 January 2006: "*Landscapes of the Deir 'Alla Region during the past five millennia*".
- Université Paris I "outils et méthodes de la recherche"; Archéologie Expérimentale - séminaire Histoire des Techniques ; 23 novembre 2005. "*Khirokitia : l'analyse microscopiques de la terre à bâtir archéologique, une première étape vers des reconstitutions plus fidèles*".
- Université de Tours; Séances de Master II en architecture et urbanisation "L'interprétation des vestiges architecturaux : outils et méthodes"; 21 novembre 2005. "Les témoins microscopiques des techniques de préparation des matériaux de construction en terre".
- Leiden University - Faculty of Archaeology; 12 March 2004. "*Environments of the first farming and agro pastoral communities in the Jordan Valley*".
- Institut National Agronomique (Paris); 08 February 2000. "*Changements paléo-environnementaux et évolution des sociétés agro-pastorales au Proche- et Moyen-Orient*".
- Yarmuk University - Institute of Archaeology and Anthropology; March 1995. "*Contribution of the soil micromorphology on the study of occupational sequences*" (lecture in Arabic).

Exhibitions (contribution & active participation)

- Maison René Ginouvès, Archéologie et Ethnologie. Univ. Paris X, Juin-Septembre 2007. Exposition photographique : "Chêne d'observations microscopiques : un outil pour la recherche".
- Cyprus Museum (Nicosia), April-May 2006. "Khirokitia : Stone and Earth Architecture. Reconstructing the Neolithic Settlement".
- Maison René Ginouvès, Archéologie et Ethnologie. Univ. Paris-X, January-June 2005 : "Reconstitution de l'habitat néolithique à Khirokitia (Chypre)" Exposition photographique.
- Institut du Monde Arabe, Paris, June-Septembre 1997: Jordanie sur les pas des archéologues. Editing of the exhibition introduction and cartography (First and second banners); editing of the catalogue introduction and active participation on the preparations of the exhibition.

Other Activities

- **Excavations** (participation): (1) Jabal el-Rahil/Tell Sukhneh (Jordan). Roma University, 1993; (2) Tell Ja'deh (Syria). CNRS / MAE, 1993; (3) Tell Abu Hamid (Jordan). CNRS / MAE & Yarmuk University, 1991; (4) Tell Abu Thawab (Jordan). Yarmuk University, 1984-85; (5) Kherbet Zeiraqoun (Jordan). Tübingen University & Yarmuk University, 1984; (6) Tell Deir Alla (Jordan). Leiden University & Yarmuk University , 1983-84; (7) Tell el-Mazar (Jordan). Jordan University, 1980-81; Amman Citadel (Jordan). Free University of Barcelona, 1979.
- **Preventive archaeology:** Gisors deviation (Normandy – France). Archaeological Service-Department of the Eure. 2008/09. In charge of the sector geoarchaeology / geomorphology.

- **Sociability:** Elected president of the residents' committee of the Abreu de Grancher Foundation - International City University (Paris) in 1997 and 1998.
- **Military service** (Jordan), 1981-83