

## Dr. HAJ HUSSEIN Muhannad

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### EDUCATIONION

- 2012** Ph.D. Architectural sciences and techniques, University of Bordeaux 1 and High National School of Architecture and Landscape of Bordeaux (ENSAP-Bx), France.  
Thesis' title: "*Investigation sur la qualité des ambiances hygrothermiques et lumineuses des habitats palestiniens. La cour : contribution environnementale et socioculturelle* "
- 2005** M.Sc. Master Degree "Ambiance and comfort for architecture and urban planning, University of Bordeaux 1 and ENSAP-Bx, France.
- 2001** B.Sc. Architectural Engineering, NNU, Nablus Palestine.

### ACADEMIC EXPERIENCE

- 2013 – present** Assistant professor at Building Engineering Department-NNU.
- 2012 – present** Research Associate at GRECAU laboratory, ENSAP-Bx, France.
- 2010-2012** Lecturer (part time) at ENSAP-Bx, France.
- 2005-2008** Lecturer at Building Engineering Department - NNU.
- 2004-2005** Research (Master degree) at Laboratory of GRECO, Toulouse, France.
- 2001-2003** Research & Teaching Assistant at Department of Architecture- NNU.

### ADDITIONAL CAREER EXPERIENCE-PART TIME

- 2013 – present** **Freelance Sustainability Consultant:**  
Member, Sustainable Palestine Group (SPG),
- Fev.-Sept., 2008** **Environmental Consultant:** Thermal, lighting and acoustical studies in different architectural projects, at Engineering studies and consulting center (AMAR), Nablus, Palestine.
- June – Sept., 2001** **Architect:** Architectural Design for public and private constructions, at Serena office for Architecture, Nablus, Palestine.
- June – Sept., 2000** **Urban planning studies:** urban database collection, master plan, at Urban planning Center of NNU, Nablus, Palestine.
- May - Oct.. 1997** **Construction of a database:** architectural database for Palestinian traditional buildings at Riwaq for Architectural Conservation, Ramallah, Palestine.

### CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

- Member, engineers Association: Jerusalem center, Palestine.
- Member, Technical committee, Palestine Green Building Council, Ramallah, Palestine.
- Member, advisory committee of Construction and Transportation Research Unit, NNU.

## SOCIAL & ORGANIZATIONAL SKILLS

- **Coordinator**, *Al-Maqdisi-partner-oriented research project, Towards Zero Energy School in Palestine*, financed by the French government, Palestine. 2013-2015.
- **Member**, *Al-Maqdisi-partner-oriented research project, Improving residential building energy and environmental performance in Palestine*, financed by the French government, Palestine. 2016 -2018.
- **Member**, *pilot committee, Environment, Energy, Sustainable development"* (ARCUS-E2D2), France, 2014.
- **Member of the scientific committee**, 31<sup>th</sup> International Conference "PLEA 2015 – Architecture in (R)evolution", Italy, Sept. 2015.
- **Member of the scientific committee**, 1<sup>st</sup> International Conference on Civil Engineering ICCE, NNU & Engineers Association, 2013.
- **Member of the scientific committee**, 5<sup>th</sup> International Energy Conference, Engineers Association, 2014.
- **Member, scientific committee**, faculty of Engineering & IT, NNU, 2013-Present.
- **Ph.D Jury member**, entitled: "*L'habitat durable en Arabie Saoudite: Dimension climatique et socio-culturelle. Cas d'étude: La ville de Djeddah*", University of Bordeaux, France, 7 January 2015.
- **Ph.D Jury member**, entitled: "*L'architecture en terre crue dans la vallée du Jourdain ;Une filière en reconstruction...temporaire*", University of Versailles, France, 7 October 2015.

## AWARDS

- Best poster presentation award (1<sup>st</sup> place): Sustainable house in Palestine, International Conference on Renewable Energy: Generation and Applications (ICREGA'14), Al-Ain, United Arab Emirates, 2014
- PhD. Scholarship, French government, 2008.
- MSc. Scholarship, French government, 2003.
- Honorable mention, UNESCO and the municipality of Nablus, Urban & architectural design Competition for public spaces in the old city of Nablus, 2005.

## COURSES TAUGHT

- Acoustics
- Integrated architectural design
- Building Illumination
- Architectural design basics
- Graduation project
- Building simulation
- Thermal in building
- Sustainable Architecture (master level)
- Architectural Design Studio
- Energy efficient building
- Environmental design studio (in France)

## COMPUTER SKILLS

- Microsoft Office.
- Building performance simulation: designbuilder, Ecotect, Solene, dialux, Dialux-evo, Relux, Dialeurope, Zorba.
- Field measurements: Onset HOBOWare pro.
- Drafting/Rendering: Sketchup, AutoCAD 2D/3D, Revit.
- Illustration/Editing: Photoshop, InDesign.
- Qualitative analysis: Sphinx, SPSS.

## PUBLICATIONS

- Haj Hussein M., Baba M., Barlet A., & Semidor, C. “Towards Zero Energy School in Palestine”, *5<sup>th</sup> International Energy Conference*, Al-Bireh, Palestine, 27-28 January 2015.
- Hijazi I., Haj Hussein M. & Koenig R. “Enabling Geo-design: evaluating the capacity of 3D city model to support thermal design in building”, *9th International 3DGeoInfo*, Dubai, UAE, 11-13 November 2014.
- Haj Hussein, M. & Semidor, C. “An Investigation into Luminous Comfort in the Summer Season of Palestinian Dwellings: Inhabitants' Point of View”, *AFE-CIE International Conference Towards a new century of Light*, Paris, 15-16 April 2013.
- Haj Hussein M., Barlet A., & Semidor C. “Socio-environmental dimensions in outdoor spaces of contemporary Palestinian housing”. *Open House International Journal*, Vol.35, No.2, pp. 67- 76, 2010
- Haj Hussein M. & Semidor C. Design Strategies for Sustainable Housing in Palestine, case studies: Jericho and Nablus. *The 1<sup>st</sup> Built Environment Development Symposium: Real Estate and Housing Sustainability*. University of Dammam, Saudi Arabia. 25-27 October 2010.
- Haj Hussein M., Barlet A., & Semidor C. The Significance and Usage of Contemporary Open Spaces In Housing Buildings: Inhabitants' Responses In Palestine. *ENHR2010 Conference « European Network For Housing Research »*, Istanbul, Turkey, 4-7 July 2010.
- Haj Hussein M., Barlet A., & Semidor C. Courtyard concept: A sustainable strategy for the future housing buildings in Palestine. *SAUD 2010*, Amman, Jordan, 12-14 July 2010.

### **Poster presentations:**

- Sahar Wasfi, Muhannad HAJ HUSSEIN, Sustainable house in Palestine, *International Conference on Renewable Energy: Generation and Applications (ICREGA'14)*, Al-Ain, United Arab Emirates; 03/2014 (Best poster presentation award: 1<sup>st</sup> place)
- 1stDay-long symposium for doctoral students at Ensap, entitled « Stratégies Architecturales pour un Habitat Durable en Palestine. La cour : choix socio-environnemental », Bordeaux, 17 march 2011.
- Day-long symposium for doctoral students at doctoral school SPI- university of Bordeaux 1, entitled « Contribution à la conception architecturale d'un habitat durable en Palestine : la cour comme réponse socio environnementale », Bordeaux, 28 April 2011