

## **CURRICULUM VITAE**

### **EMAD B. DAWWAS**

Assistant Professor of Urban Planning

An-Najah National University

#### **Contact Information:**

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#### **Personal Data:**

- Date&place of Birth: Feb.13.1976,  
Tubas-Palestine.
- Marital Status: Married.

#### **Current Positions:**

- Coordinator of the Community Based Learning Unit, An-Najah National University, P.O. Box 7, Nablus – West Bank, Palestine.
- Assistant Professor at Urban Planning Department – An-Najah National University, West Bank/Palestine.

#### **Education:**

- **PhD in Urban Design and Planning 2006/2011**  
University of Washington, Seattle, U.S.A., 2012, GPA 3.7/4.0
- **Master's Degree in Space Systems on Earth Observation- Remote Sensing and GIS Applications 2001/2002**  
Lecce University (ISUFI Institute), Lecce, Italy, Final grade Excellent (Honor List)
- **Master's Degree in Transportation and Highway engineering 2000/2005.**  
An-Najah National University, Nablus, Palestine, GPA 89.8% (Honor List)
- **B.Sc. Degree in Civil Engineering 1995/2000**  
An-Najah National University, Nablus, Palestine, GPA 85.9% (Honor List)

#### **Specialized Training and Courses:**

- **Remote Sensing (RS) and Geographic Information Systems (GIS) Applications in:**  
Monitoring Urban Areas; Monitoring Industrial and Natural Hazards and Disasters (fires, landside, flooding); Monitoring Agricultural, Forest and Water Resources; Monitoring Coastal Zones (pollution, erosion);
- **Advanced GIS and Modeling:**  
Urban Simulation, GIS Programming and Geoprocessing.
- **Urban Planning:**  
Urban Morphology, Urban Form, Planning Evaluation, Advanced Land Use Planning and Visioning;

## **Transportation Engineering and Planning:**

Urban Transportation Planning, Travel Demand Forecasting, Transportation and the Environment, Geography of Transportation, Transportation Facilities Engineering, Highway Design and Pavement Design;

## **Languages:**

- Arabic: The mother language
- English: Excellent

## **Teaching and Academic Experience:**

- **January 2012 – Present:**  
Assistant Professor, Urban Planning Department, Faculty of Engineering, An-Najah National University, West Bank, Palestine
- **June 2011 – September 2011:**  
Instructor, Urban Design and Planning Department, Faculty of Built Environment, University of Washington, Seattle, U.S.A.
- **June 2010- April 2011:**  
Visiting Scholar, Urban Planning Department, The College of Design, Construction and Planning- University of Florida, Gainesville, U.S.A.
- **June 2009- September 2009:**  
Visiting Scholar, Urban Planning Department, The College of Design, Construction and Planning- University of Florida, Gainesville, U.S.A.
- **November 2002 – June 2006:**  
Instructor, Civil Engineering Department, Faculty of Engineering, An- Najah National University, Nablus, Palestine.
- **December 2000- November 2001**  
Teacher Assistant, Civil Engineering Department, Faculty of Engineering, An- Najah National University, Nablus, Palestine.

## **Working Experience:**

- **Senior Staff and Consultant, February, 2014 – currently**  
*Municipality of Tubas City, Palestine (Voluntary work)*
  - Working on the planning an industrial area and proposing strategies to move light and medium industries from the Tubas City boundaries to the new industrial area.
  - A member in a technical committee working on planning a stadium in the city with the collaboration with the engineering department at the municipality.
- **Senior Staff, 2005-2006**  
*Regional and Urban Planning Center, An-Najah National University.*
  - Working on physical plans of Hewara town

- Working on physical plans of Al-Bathan villages.
- **Engineer Practice June 2002 -October 2000**  
*Territory and Environment Laboratory of Tecnopolis, Bari, Italy.*  
Working on usage of High Resolution Remotely Sensed Data to monitor urban areas at micro spatial scale using GIS(ArcGIS 8.0.2) and RS(ER Mapper 6.2) software as tools.
- **Designer Engineer June 2000- Sep. 2000**  
*Al-Hanbaly Consultant Engineering Company, Nablus, Palestine*  
Structure and Reinforced Concrete Designer.

### **Community Based Learning Projects:**

- **Project 1: Building a Physical Properties and Infrastructures GIS Database for Tubas Municipality (September, 2014 – Present).**  
With the collaboration of Tubas City Municipality and the Urban Planning Department at An-Najah National University and as community project in the Geographic Information Systems Class.
- **Project 2: An Analysis and Evaluation of the Pavement Conditions and Geometric Design for the Road Network in Nablus City Using GIS (January – May 2014).**  
With the collaboration of the Municipality of Nablus city and Urban Planning Department at An-Najah National University and as community project in the Soil and Materials Properties Class.
- **Project 3: Design and Implementation of Building GIS Database for Aqqaba Village (January, 2014)**  
With the collaboration of Aqqaba Municipality and An-Najah National University. Voluntary work prepared by urban planning students and under my supervision.
- **Project 4: Building a Structures and Infrastructures Geodatabase for Beit Wazan Village Using GIS (September, 2013 – May, 2014).**  
With the collaboration of Beit Wazan Village Council and the Urban Planning Department at An-Najah National University, and as community project in the Geographic Information Systems Class.
- **Project 5: Mapping Nablus City for Earthquake Evacuation Project Using GIS Technology (September, 2012 – December, 2013).**  
With the collaboration of Urban Planning and Disaster Risk Reduction Center, the Municipality of Nablus city and the Civil Engineering Department at An-Najah National University.

## **Teaching and Training Experience:**

- **Community Based Learning (CBL): What...Why... and How?**  
A series of workshops aims to introduce the CBL to the university instructors. I give this workshop on semester bases at An-Najah National University for faculty members from different colleges. I have given the workshop also in three Palestinian Universities: Khodury University, Polytechnic University and Hebron University.
- **Selected Graduate Courses:**
  - *University of Washington, Seattle, U.S.A*
    - Advanced Geostatistical Analysis Using GIS
    - Coordinator of a Colloquium entitled: Bridging the Gap between Education and Practice in Urban Planning
  - *An-Najah National University, Palestine*
    - Geographic Information Systems and its Environmental Applications
    - Statistical Analysis and its Applications in Urban and Regional Planning
    - Aspects of Urban and Regional Planning in Palestine
- **Undergraduate Courses: (An-Najah National University, Palestine)**
  - Geographic Information Systems as a Community Based Learning Class
  - Advanced Geographic Information Systems and their Applications in Urban Planning
  - Application of Geographic Information Systems in Civil Engineering
  - Regional Planning
  - Transportation Engineering
  - Urban Transportation Planning
  - Land Use Planning

## **Academic Achievement and Research:**

- **Theses:**
  - Spatio-temporal Analysis of Urban Development Patterns in Palestinian Communities: Bethlehem-Hebron Region as a Case (PhD Dissertation)
  - GIS as a Tool for Route Location and Highway Alignment (Master's Thesis)
  - Using High Resolution Remotely Sensed Data for Urban Monitoring and Control (Master's Project)
- **Other Research:**
  - The Evolution of GIS as a Land Use Planning Conflict Resolution Tool: A Chronological Approach. *American Journal of Geographic Information System* 2014, 3(1): 38-44.
  - Geographic Information Systems as a Community Based Learning Class: Challenges and Learning Opportunities. *Journal of Educational and Instructional Studies in the World* 2013, 3 (1): 181 – 190.
  - Urban Planning Students Make a Difference through a Community Based Learning Class. A conference paper presented at the 5<sup>th</sup> International Conference on New Trends in Education and their Implications 2014. Antalya, Turkey.
  - Challenges of Teaching Geographic Information Systems as a Community Based Learning Class: the Case of An-Najah National University. A conference paper

presented at the 4<sup>th</sup>International Conference on New Trends in Education and their Implications 2013. Antalya, Turkey.

- Modeling Land Suitability for Urban Expansion Using Analytical Hierarchy Process and GIS: A Case Study from the West Bank-Palestine (a Paper Presented in Palestinian Faculty Development Program Conference, Austin, Texas, U.S.A., 2010).
- Modeling Driving Factors of Urban Development Using GIS and Geographically Weighted Regression (a Paper Presented in Palestinian Faculty Development Program Conference, Syracuse, New York, U.S.A., 2011).
- Using GIS in Estimating Vehicle Emissions in the West Bank: Impact of the Israeli Check points (coauthor, unpublished paper)

### **References:**

- Prof. Donald Miller, University of Washington, Seattle, U.S.A.:  
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