

Rana Al-Jammal

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EDUCATION

University of Massachusetts-Amherst

Ph.D. in Civil Engineering, Expected February 2006

Field of Study: Transportation Planning.

Dissertation: "A Comprehensive Representation and Analysis Framework For Trip Chaining Activity Pattern Modeling For Travel Behavior of Individuals with Fixed Activities."

University of Massachusetts-Amherst

Master of Regional Planning, February 1998

Thesis: "The Role of Architectural Image in the Residential Neighborhood."

University of Jordan-Amman

Bachelor of Science in Architecture Engineering, May 1991

Final Design Project and Thesis: "National Museum of Jordan", Graduated with Distinction.

RESEARCH EXPERIENCE

University of Massachusetts-Amherst

Dissertation Research (08/01 – Present)

Designed a combined qualitative and quantitative analysis framework. Applied activity based travel analysis to model travel behavior. Utilized concepts of space-time prisms and cluster analysis to study individual activity patterns over six weeks. Modeled travel behavior by developing econometric discrete choice and hazard based models using the 1999 Mobidrive German travel diary survey.

Research Assistant, UMass Transit Services (01/05 – 05/05)

Conducted phone interviews, researched Intelligent Transportation Systems technology use in case studies, and compiled lessons learned from regional traveler information centers around the nation. Provided recommendations for building requirements to house the new traveler information center for western Massachusetts located on campus in conjunction with the design of the new bus garage and training center. Researched state of the art bus operator multi media training tools to enhance current training program.

Research Assistant, Baystate Roads Program, Department of Civil and Environmental Engineering (03/03 – 01/05)

Researched and acquired new state of the art reference and video materials to enhance and update the Local Technical Assistance lending library.

Master's Thesis Research (01/95 – 01/98)

Researched the field of environmental aesthetics to study the importance of the image of an environment to its residents; selected the graduate residential complex as a case study; designed and conducted a post occupancy survey; suggested improvements to existing spaces based on survey results, focusing on spaces for human interaction and development; explored the interaction between architecture, urban design and planning.

Spirit of Place II Class Project: "Exploring Indonesia's Architectural and Cultural Heritage", Analyzed travel philosophies and designed a month's itinerary for Java and Bali (02/98 – 05/98)

Research Assistant, Department of Civil and Environmental Engineering (03/97 – 08/97)

Analyzed the effects of the bus service on volumes of student cross-registration for classes between five different campuses.

Facilities Research Coordinator, Planning and Operations-Housing Services

Researched funding possibilities for new projects (09/95 – 05/96)

Studio II Team Project, Pioneer Valley Planning Commission, West Springfield, MA

“Potential Corridors for Non-Motorized Transportation” (09/94 – 12/94)

Created base-study for non-motorized transportation plan in Hampshire and Hamden counties.

Housing Policy Class Project: “Review of Northampton Housing Bi-Laws” (02/95 – 05/95)

Analyzed the discriminatory effects of policies on minorities.

Studio I Team Project: “The Future of the Masonic Lodges,” (02/94 – 05/94)

Assessed architectural significance of lodges as downtown landmarks in 20 communities and investigated reuse possibilities.

Research Assistant, Center for Economic Development (09/93 – 12/93)

Investigated innovative ways to increase town services without raising taxes in the town of Pelham, MA.

TEACHING, TRAINING, AND MANAGEMENT EXPERIENCE

University of Massachusetts-Amherst

Guest Lecturer, Department of Civil and Environmental Engineering (10/05)

“Urban Transportation Planning”

Residence Director, Residence Life-Housing Services (08/99 – 02/03)

Managed a residence hall of 575 students; supervised a staff of twenty; conducted staff selection processes, as the hiring authority, and oversaw personnel procedures; advised student leadership; conducted weekly staff meetings; presented bi-annual and on going departmental staff training for undergraduate, graduate and professional staff.

Assistant Residence Director, Residence Life-Housing Services (08/96 – 05/99).

Supervised 12 students; advised house council leadership; advised in-hall activity planning; managed the cluster office including: handling of room keys, mail, staffing and training.

Teaching Assistant, Department of Landscape Architecture and Regional Planning

(01/95 – 05/95), (01/94 – 05/94)

Lab course: Microcomputer Applications in Resource and Service Management.

Teaching Assistant, Department of Landscape Architecture and Regional Planning

Lecture course: Dynamics of Human Habitation (09/94 – 12/94)

University of Jordan-Amman

Teaching Assistant, Center for Scientific and Engineering Consulting (01/95)

Lab course: AutoCAD for Engineers.

PROFESSIONAL PRACTICE

Designer and Project Architect, Arab Architects, Amman, Jordan (09/91 – 07/93)

Conducted site analysis, building and landscape design, interior details, model making, client presentations, and site visits. Directed structural, mechanical and electrical works. Participated in architectural critique for team projects. Researched and analyzed vernacular architecture.

Architect Intern, Jorba i Valls, Rubi-Barcelona, Spain (06/90 – 07/90)

Performed landscape design, building extensions, residential design, and site visits.

Architect Trainee, Mahadin and Kefaieh Architects, Amman, Jordan (06/89 – 07/89)

Completed working drawings for downtown public plaza. Designed gateway and residential interior layout.

Surveyor, Dr. Salim Al-Faqih, Department of Architecture, University of Jordan (06/88 – 07/88)

Conducted architectural typology and land use site survey for two different locations: al-Suweifiyeh new suburb in Amman, and the historic village of Khirbet Souf.

ACADEMIC SERVICE

University of Massachusetts-Amherst.

Developed and presented a study report for the Executive Director of the Five Colleges, Incorporated: “The Five Colleges’ Bus Service” (03/97 – 10/97)

Recommended improvements to current bus schedules service linking the five colleges in the consortium to increase the feasibility of student interchange.

Organized a lecture by an outside speaker, Institute of Transportation Engineers Seminar Series, Transportation Planning & Engineering Program (10/96)

Prepared and presented an educational slide show, the 4th Annual International Fair (04/96)
“The architecture of the Middle East featuring: Jerusalem, Damascus and Jordan”,

Conducted a poster design workshop, Graduate Student Complex (03/95)

Applied art therapy for stress relief. Secured space and permission for students to transform their hallways into an art gallery using their finished work to improve the environmental aesthetics of the building and foster community pride.

UNIVERSITY SERVICE

University of Massachusetts-Amherst

Staff Development Committee, Residence Life-Housing Services (08/02 – 02/03)

Leadership Development Committee, Residence Life-Housing Services (08/00 – 05/01)

Residential Committee, Residence Life-Housing Services (01/00 – 05/00)

Programming Committee, Asian Dance and Music, Fine Arts Center (09/98 – 05/01)

Chancellor’s Conference Planning Committee, “ Going Public with Spirituality in Higher Education and the Work Place” National Conference (09/99 - 08/01)

Assistant Residence Director Search, Residence Life-Housing Services (09/98 – 05/99)

Institute of Transportation Engineers Student Chapter, Vice President (09/97 – 08/98)

Institute of Transportation Engineers Student Chapter, Activities Coordinator (09/96 - 08/97)

HONORS AND AWARDS

Making a Difference Scholarship, University of Massachusetts, Amherst (04/05)

Tony Platt Build Boston Scholarship, Boston Society of Architects. Attended Build Boston workshops: 1) Cities fit for people-International models 2) Livable cities, smart growth: the dream vs. reality. 3) The education of a designer (11/03)

Travel Grant, Graduate School and Vice Chancellor for Research. Present research findings at the annual Transportation Research Board Meeting, Washington D.C. (01/03)

Staff Development Fund, Housing Services. Attended the Northeast College and University Housing Officials New Professionals Conference at Skidmore College, N.Y. (02/02)

Professional Development Fund, Housing Services. Attended the American College Personnel Association National Convention, Boston, MA (03/01)

Professional Development Fund, Housing Services. Participated in the International Photo Competition of the American College and University Housing Officials (06/00)

Student of the Week, University of Massachusetts' Daily Collegian. Recognized for student leadership and campus service (02/99)

Honor's Degree in Architecture and First Rank Certificate (06/91)

First Rank in Class Annual Scholarship, University of Jordan (09/86 – 06/91)

PUBLICATIONS AND PRESENTATIONS:

"Identifying Groups In Data In Search For Unique Patterns Of Activity Travel Behavior", paper presented in session 12.13: Travel Behavior Modeling and Forecasting, October 28, 2005, Kansas City, Missouri.

"The Application of Cluster Analysis and Space-Time Prisms to Study Activity Travel Patterns", poster session at the Student Poster Exhibit, APA National Planning Conference, Washington D.C. April 26, 2004.

Al-Jammal, Rana and Emily Parkany, **"Integration of Qualitative and Quantitative Methodologies: Framework and Quick Examples"**, *Transportation Research Record 1854*, A Journal of the Transportation Research Board, National Research Council, Washington, D.C., 2003, pp. 171-179.

"The Integration of Qualitative and Quantitative Methodologies: Framework and Quick Examples," co-authored with Dr. Emily Parkany and presented at the Transportation Research Board Annual Meeting, Washington D.C. Jan 13, 2003.

"The Influence of Fixed Commitments on Trip Chaining," poster session, the New England Institute of Transportation Engineers Annual Meeting, University of Massachusetts, April 9, 2002.

PROFESSIONAL MEMBERSHIPS

2004 to Present	Association of Collegiate Schools of Planning
2003 to Present	Transportation Research Board
1996 to Present	Institute of Transportation Engineers
1995 to Present	American Planning Association
1991 to Present	Jordanian Engineers Association