

**Monica A. Haddad**

Assistant Professor and GIS Specialist  
Department of Community and Regional Planning  
126, College of Design  
Ames, IA, 50011-3095

**Education**

**University of Illinois at Urbana-Champaign, IL**

Department of Urban and Regional Planning

*Ph.D. on Regional Planning, October 2003*

Concentrations: Spatial Analysis (Geographic Information Systems) for Urban and Regional Planning; Regional Development Policies; and International Planning

Dissertation: "Human Development and Regional Inequalities: Spatial Analysis Across Brazilian Municipalities"

Committee: Prof. Geoffrey Hewings, Prof. Werner Baer, Prof. Zorica Nedovic-Budic, Prof. Kieran Donaghy

*Outstanding PhD Award, May 2004*

**University of Illinois at Urbana-Champaign, IL**

Department of Urban and Regional Planning

*Master on Urban Planning, January 2000*

Concentrations: Public Sector Management and Poverty

Thesis: "Metropolitan Governance and the Response to the Low-Income Housing Problem: A Comparative Analysis"

Advisor: Prof. Gerrit Knaap

Extra-curricular activity: students' representative in the search committee for a new faculty position in the field of International Planning (October 1998 - February 1999)

**Catholic University of Minas Gerais, Brazil**

Post Graduate Program "Lato Sensu" - Planning and Architectural Representations (July 1994 - January 1996)

**Federal University of Minas Gerais, Brazil**

*Bachelor in Architecture, December 1988*

Honors: Research Fellowship (CNPq) for the development of theoretical studies about "The examination of the Norberg-Schulz's spatial concepts focusing on the history of architecture" (February 1987 - February 1988)

## Work Experience

### Iowa State University

Department of Community and Regional Planning

*Assistant Professor and GIS Extension Specialist* (August 2003 to present)

### University of Illinois at Urbana-Champaign, IL

Department of Geography

*Instructor* (Spring 2002, full time; Fall 2002, part time)

GEOG 205: Business Location Decision-Making - Theory and Practice

### University of Illinois at Urbana-Champaign, IL

Regional Economics Applications Laboratory-REAL

*Research Assistant* (August - December 2001; August 1998 - May 2000; January -May 1998)

Spatial Analysis using ArcGIS for regional simulations in the Chicago Metropolitan Area; statistical analysis; and elaboration of G.I.S. (ArcView) maps

Imaging Lab - LEAM Project (Land Use Assessment Modeling)

*Research Assistant* (August 2000 - May 2001)

Elaboration of GIS maps (ArcView and ArcInfo) and modeling Open Space and Transportation Sub-models for LEAM

Geographic Modeling System Lab

*Research Assistant* (January - May 2000)

Elaboration of G.I.S. (ArcInfo) maps

### Politecnico di Milano, Italy

Department of Economics and Production

*Visiting Research Fellow* (June - July 2001)

Development of a regional model to identify competition and complementarities among Italian regions: "Italian Interregional Competition and its Implications to National and EU Regional Investments"

### The World Bank, Washington D.C.

LCSES - Latin America and the Caribbean Social and Environmentally Sustainable

*Summer Inter* (June - August 2000)

Participant of a mission to Medellin, Colombia, to identify the different municipal behaviors regarding low-income housing in the Medellin Metropolitan Region; and elaboration of a report: "Colombia Slum Upgrading Project: a Metropolitan Overview"

### Department of Planning and Development, Dallas, TX

*Summer Intern* (May - August 1998)

Downtown Streetscape Guidelines

## **TH Architecture, Belo Horizonte, Brazil**

### *Director*

- Architectural and Landscape design for a Urban Square at Campo Alegre, Brazil (1996)
- Residential Project in Nova Lima, Brazil (1996)
- Architectural Design Standards for the Urban Development Program of Bahia, Brazil (1995)
- Architectural Design Competition for the Cultural Center Usiminas at Ipatinga, Brazil (1995)
- Architectural and Landscape Design for Leisure Area at Educational Center Itabira, Brazil (1995)
- Conceptual Architectural design for daycare and leisure area at Vila Acaba Mundo, Brazil (1992)
- National Architectural Competition for the Belo Horizonte Art Museum (1990)

## **Credireal Bank, Belo Horizonte, Brazil**

### *Architect at Architectural Design Department (1994)*

- Architectural projects for local branches (Vitoria, Rio de Janeiro, Passos, São Sebastião do Paraíso, and Lavras)

## **City Hall, Belo Horizonte, Brazil**

### *Consultant in the Central Area Branch (1992)*

- Urban projects' evaluation at the Central South Regional Administration

## **Papers Presented at Conferences**

"Spatial Analysis of Employment Centers: a Comparative Approach of US Metropolitan Areas (1990 and 2000)". 51<sup>st</sup> Annual North American Meeting of the Regional Science Association International. Seattle, November 12<sup>th</sup>, 2004.

"Growth and the Density of Public Expenditure". 45<sup>th</sup> Association of Collegiate School of Planning - ACSP- Conference. Portland, October 21<sup>st</sup>, 2004.

"Human Development and Regional Inequalities: A Spatial Econometrics Analysis Across Brazilian Municipalities". 50<sup>th</sup> Annual North American Meeting of the Regional Science Association International. Philadelphia, PA. November 22<sup>nd</sup>, 2003.

"An Exploratory Spatial Data Analysis of Human Development in Brazil, 1970-2000". 42<sup>nd</sup> Southern Regional Association Meeting. Louisville, Kentucky. April 12<sup>th</sup> 2003.

"Human Development in the Face of Regional Inequalities: the Case of Brazil". 44<sup>th</sup> Association of Collegiate School of Planning - ACSP - Conference. Baltimore, Maryland. November 23<sup>rd</sup> 2002.

“Developing a System for Socially Related Investments”. Hewlett/Brazil Project Semi Annual Workshop. Urbana, IL, USA. December 07<sup>th</sup> 2002.

“Spatial Human Development Index: a Useful Tool for Planning?”. Hewlett/Brazil Project Annual Workshop. Rio de Janeiro, Brazil. August 02<sup>nd</sup> 2002.

## Languages

Portuguese: native language

English: fluent

Italian: advanced

Spanish: working knowledge

## Computer Skills

ArcView, ArcInfo, ArcGIS, Splus, SpaceStat, GeoDa, Microsoft Office 2000, SAS, SPSS, Microstation, EViews.

## Research Grants & Awards

- ISU Research Grant “Spatial Analysis for Local Public Finance Decision Support”, with Petrutza Caragea (US\$11,600) (April 2004).
- Department of Urban and Regional Planning (UIUC). Conference Travel Grant. (November 2002)
- The Graduate College (UIUC). Conference Travel Grant. (November 2002)
- Hewlett Foundation Grant. Travel Grant. (US\$3,400) (Summer 2002)
- Center for Latin American and Caribbean Studies at UIUC. Travel Grant. “Metropolitan Management and Housing Policies: a case study in Brazil.” (US\$2,000) (April 1999)
- The Graduate College (UIUC). Master Thesis Grant. Travel Grant. “Metropolitan Management and Housing Policies: a case study in Brazil.” (US\$250) (April 1999)
- Prize winner proposal for a 38 duplex house neighborhood at Mainz, Germany (July 1996)
- Gold Medal BIAB’94 at International Forum of Young Architects at Recife, Brazil (1994)
- Special Mention from the Jury of the National Architectural Competition: Brazilian Pavilion World Expo Sevilla92 in Seville, Spain (1991)

## Related Background

GEOG 205: Business Location Decision-Making - Theory and Practice (UIUC)

Brief Course Description: Analysis of location decision-making with emphasis on industrial and commercial location patterns. Identification of important institutional factors and their changing roles over the recent past. Focuses on national as well as global economic actors and their spatial behaviors. Exploration of several major economic sectoral location patterns along with the introduction of industrial organizational approach.

CRP 451/551: Introduction to Geographic Information Systems (ISU)

Introduction to geographic information systems, including discussions of GIS hardware, software, data structures, data acquisition, analytical techniques, and implementation procedures. Laboratory emphasizes practical applications and uses of GIS. Software ArcGIS 9.0.

CRP452/552: Geographic Data Management and Planning Analysis (ISU)

It builds upon the knowledge and skills covered in CRP 451/551 to explore advanced spatial techniques related to the creation, exploration, analysis, modeling, visualization, interpretation, and management of geographic data. Two software GeoDa 9.5-i and ArcGIS 9.0 (and its extensions) will be used intensively to accomplish the above tasks. GeoDa 9.5-i is designed to implement techniques of exploratory spatial data analysis (ESDA), using concepts of spatial statistics.

CRP 595X: Seminar in GIS Application and Research (ISU)

This seminar is the last step for graduate ISU students who are pursuing the GIS Certificate Program. It is designed to meet once a week. Students will present their GIS Application. During the semester, ISU faculty and GIS professionals from across the state will also present their GIS-oriented work.

## Students

Major Professor

Karen Louise Johnson - Master of Community and Regional Planning

Land Use and Water Quality: a BASINS Evaluation (completion December 2004)

Co-major Professor

Zhen Zhan - Master of Landscape Architecture and Master in Community and Regional Planning

The influence of scale on landscape analysis for resource management in Milwaukee Road rail yard, Perry, Iowa (completion July 2004)