

CURRICULUM VITA

*** Post Tenure

1 - INFORMATION

Name Mônica A. Haddad

Current Rank

Associate Professor, Department of Community and Regional Planning

Degrees Held

Ph.D. in Regional Planning, October 2003; University of Illinois at Urbana-Champaign
Dissertation: Human Development and Regional Inequalities: Spatial Analysis Across Brazilian Municipalities

Master of Urban Planning, January 2000; University of Illinois at Urbana-Champaign
Thesis: Metropolitan Management and Housing Policies: A Case Study in Brazil

Post Graduate Program "Lato Sensu", Planning and Architectural Representations, 1996; Catholic University of Minas Gerais, Brazil

Bachelor of Architecture, 1988; Federal University of Minas Gerais, Brazil

Professional Experience

Academic Positions

August 2012 – Present

Associate Professor, Department of Community and Regional Planning, Iowa State University
Faculty member at the Graduate Program in Sustainable Agriculture.

August 2009 – May 2012

Associate Professor and GIS Extension Specialist, Department of Community and Regional Planning, Iowa State University (a 50% Teaching, 50% Extension position)

August 2003 – May 2009

Assistant Professor and GIS Extension Specialist, Department of Community and Regional Planning, Iowa State University (a 50% Teaching, 50% Extension position)

Spring, 2002

Instructor, Department of Geography, University of Illinois at Urbana-Champaign

Fall, 2001; August 1998 – May 2000; Spring, 1998

Research Assistant, Regional Economics Applications Laboratory (REAL), University of Illinois at Urbana-Champaign

June 2001 – July 2001

Visiting Research Fellow, Department of Economics and Production, Politecnico di Milano, Italy

August 2000 – May 2001

Research Assistant, Imaging Lab – Land Use Assessment Modeling (LEAM) Project, University of Illinois at Urbana-Champaign

Spring, 2000

Research Assistant, Geographic Modeling Systems Lab, University of Illinois at Urbana-Champaign

Other Positions

*** April 2015 – August 2015

Visiting Professor, School of Architecture, Federal University of Minas Gerais, Brazil.

*** January 2015 – March 2015

Research Fellow, Center for Latin America Research and Documentation, University of Amsterdam, Netherlands.

June 2000 – August 2000

Summer Intern, Latin America and the Caribbean Region Environmentally and Socially Sustainable Department (LCSES), World Bank, Washington D.C.

May 1998 – August 1998

Summer Intern, Department of Planning and Development, City of Dallas, TX

January 1990 – December 1996

Architect Director, TH Architecture, Belo Horizonte, Brazil

- Architectural and landscape design for an 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 a leisure area at the Educational Center Itabira, Brazil (1995)
- Conceptual architectural design for a daycare and leisure area at Vila Acaba Mundo, Brazil (1992)
- National architectural competition for the Belo Horizonte Art Museum, Brazil (1990)

2 - SCHOLARSHIP

Refereed Journal Articles

*** Haddad, Mônica, and Joshua Hellyer. 2018. "Decent work and social protection in Belo Horizonte, Brazil." *Journal of Planning Education and Research*, 38(1), 86–97.

- *** Haddad, Mônica, Ricardo Freguglia and Claudia Gomes. 2016. "Public spending and quality of education in Brazil" *Journal of Development Studies*.
- *** Rongerude, Jane and Mônica Haddad. 2016. "Cores and Peripheries: Spatial Analysis of HCV Voucher Distribution in the San Francisco Bay Area Region, 2000 – 2010." *Housing Policy Debate*, 26(3), 417-436.
- *** Macedo, Joseli and Mônica Haddad. 2016. "Equitable distribution of open space: Using spatial analysis to evaluate urban parks in Curitiba, Brazil." *Environment and Planning B: Planning and Design*.
- *** Haddad, Mônica. 2015. "A Framework for Urban Environmental Planning in Brazil." *European Review of Latin American and Caribbean Studies*, Vol 99, pp. 113-125.
- *** Pandey, Pramod, Soupir, Michelle, Haddad, Mônica, and Rothwellc, James. 2012. "Assessing the impacts of watershed indexes and precipitation on spatial in-stream E. coli concentrations." *Ecological Indicators*, Vol. 23, pp. 641-652.
- *** Haddad, Mônica and Ana Fava. 2011. "Bolsa Família and School Attendance: Does Accessibility Matter?" *Journal of Latin America Urban Studies*, Vol. 9, pp. 26-41. Special issue covering the University of Florida Center for Latin American Studies, 58th Annual Conference in 2009.
- *** Haddad, Mônica, Gary Taylor, and Francis Owusu. 2010. "Locational Choices of the Ethanol Industry in the Midwest Corn Belt" *Economic Development Quarterly*, Vol.24, No. 1, pp. 74-86.
- Haddad, Mônica, Paul Anderson, Shannon Thol, Craig Hertel, and Brad Schmidt. 2009. "Assessing the Future of the Bioeconomy in Greene County, Iowa" *Journal of Rural and Community Development*, Vol. 4, No. 1.
- Haddad, Mônica and Paul Anderson. 2008. "A GIS Methodology to Identify Potential Corn Stover Collection Locations" *Biomass and Bioenergy*, Vol. 32, pp. 1097-1108.
- Haddad, Mônica and Thomas Alsbury. 2008. "Using Spatial Analyses to Examine Student Proficiency: Guiding District Consolidation and Reform Policy Decisions" *Planning and Changing*, Vol. 39, No. 1 & 2, pp. 98-126.
- Haddad, Mônica. 2008. "Bolsa Família and the Needy: Is Allocation Contributing to Equity in Brazil?" *Journal of International Development*, Vol. 20, No. 5, pp. 654-669.
- Haddad, Mônica and Zorica Nedović-Budić. 2006. "Using Spatial Statistics to Analyze Intra-urban Inequalities and Public Intervention in São Paulo, Brazil" *Journal of Human Development*, Vol. 7, No.1, pp. 85-109.

Book Chapters

*** Haddad, Mônica. 2018. "Open space provision and environmental preservation strategies: A case study in Brazil." Bhan, G., Srinivas, S. and Watson, V. Routledge Companion to Planning in the Global South. London: Routledge.

*** Hou, Yuwen and Mônica Haddad. 2018. "Site suitability and public participation: a study of bike sharing stations in a college town." Rachel Berney (ed.) *Bicycle Urbanism Reimagining Bicycle Friendly Cities*, Routledge.

*** Haddad, Mônica. 2016. "Análise Exploratória de Dados Espaciais: Suporte aos estudos urbanos com ênfase nos padrões de distribuição." Ana Clara Mourao Moura (ed.), *Tecnologias da geoinformação para representar e planejar o território urbano*.

Haddad, Mônica. 2009. "Examining the Spatial Distribution of Urban Indicators in São Paulo, Brazil: Do Spatial Effects Matter?" Chapter 5 in M. Joseph Sirgy, Rhonda Phillips, and Don R. Rahtz (eds.), *Community Quality-of-Life Indicators: Best Cases III Community Quality-of-Life Indicators Volume 1*. Springer, Netherlands.

Haddad, Mônica. 2008. "A Spatial Analysis of Bolsa Família: Is Allocation Targeting the Needy?" Chapter 10 in Joseph Love and Werner Baer (eds.), *Brazil Under Lula*. Palgrave Macmillan, New York, NY.

Kilkenny, Maureen and Mônica Haddad. 2008. "Rural Human Capital Development" Chapter 9 in Jun Jie Wu, Paul W. Barkley, and Bruce Weber (eds.), *Frontiers in Resource and Rural Economics: Human-nature, Rural-urban Interdependencies*. Resources for the Future Press, Washington, D.C.

Haddad, Mônica. 2007. "Examining the Spatial Distribution of Urban Indicators in São Paulo, Brazil: Do Spatial Effects Matter?" Chapter 5 in M. Joseph Sirgy, Rhonda Phillips, and Don R. Rahtz (eds.), *Community Quality-of-Life Indicators*. International Society for Quality-of-Life Studies, Blacksburg, VA.

Conference Proceedings

*** Rotolo M, Haddad M, Sun Y, Giménez-Lirola L, Bade S, Baum D, Gauger P, Hoogland M, Main R, Zimmerman J. Dec 2016. Spatial autocorrelation and implications for oral fluid-based PRRSV surveillance. Proc 97th Ann Meet Conference of Research Workers in Animal Diseases. Chicago, Illinois. Abstr #173.

*** Rotolo M, Haddad M, Sun Y, Giménez-Lirola L, Bade S, Baum D, Gauger P, Hoogland M, Main R, Zimmerman J. Dec 2016. Spatial autocorrelation and implications for oral fluid-based PRRSV surveillance. Proc North American PRRS Symposium. Chicago, Illinois, Abstr #23.

- *** Carvalho, Grazielle; Haddad, Mônica, and Mourão, Ana Clara. 2014. Comparação entre o crescimento da mancha urbana e a expansão da infra-estrutura de esgotamento sanitário na região metropolitana de Belo Horizonte." Anais do XXVI Congresso Brasileiro de Cartografia, Gramado - RS - Brasil. 03-07 August, 2014.
- *** Fonseca, Bráulio, Mourão, Ana Clara, and Haddad, Mônica. 2014. Definição de áreas prioritárias para conservação na borda nordeste do Quadrilátero Ferrífero por meio da análise de multicritérios em ambiente SIG com vistas ao processo de Geodesign." Anais do XXVI Congresso Brasileiro de Cartografia, Gramado - RS - Brasil. 03-07 August, 2014.
- *** Thol, Shannon, Haddad, Mônica, and Taylor, Gary. 2013. "Bridging metropolitan growth and regional zoning in Greater Des Moines, Iowa U.S." Computers in Urban Planning and Urban Management 2013 Conference Papers.

Research and Professional Reports (Extension-related)

- *** "Identifying Optimal Corn Stover Storage Sites in Central Iowa," prepared for DuPont. May - October 2013. (PI: Haddad, team members Shannon Thol, GIS Analyst; Claudette Sandoval-Green and Ahmad Al-Saygh, graduate research assistants).
- *** "Archival Documentary Analysis" for eight communities named: Cedar Rapids, Charles City, Columbus Junction, Coralville, Iowa City, Mason City, Waterloo, and Waverly, prepared for the Iowa Finance Authority, May 2011 (Research assistants: Nate Freeseemann, Joel Mendez, Justin Peterson, and Clint Sloss). Part of the Extension project "Housing Needs Assessment Model Development".
- *** UERP – Regional Land Use Approach to Northeast Iowa; Spring 2010 developed by CRP 481/581 students under my guidance.
- *** SIMPCO – Bicycle and Pedestrian Trail System to Sioux City MPO; Spring 2010 developed by CRP 481/581 students under my guidance.
- *** Region XII – New Strategies to Region XII Regional Economic Development; Spring 2010 developed by CRP 481/581 students under my guidance.
- "Downtown Waukeet Master Plan" Fall 2008 developed by CRP 532 students under my guidance; the plan was adopted by the city in Spring 2009.
- "A Participatory Approach to Assess the Future of the Bioeconomy in Greene County: Pilot Study for Iowa," prepared for the Greene County Development Corporation, the Iowa Energy Center, and the Leopold Center for Sustainable Agriculture, November 2007 (Paul F. Anderson and Craig Hertel, co-authors) 238 pages.

“Developing a Land Parcel Geodatabase for the City of Hawarden, Iowa,” prepared for the City of Hawarden for the GIS Diagnostics Phase I, Fall, 2006 (Daniel Nack, co-author) 39 pages.

“GIS Site Suitability Modeling to Identify Potential Corn Stover Collection Sites and Processing Plant Locations in Northern Iowa,” prepared for the Iowa Northern Railway Company and the Mells Industries, Summer, 2005 (Paul F. Anderson, Patrick Brown, and Lan Wei, co-authors) 63 pages.

“Site Selection Criteria for the Swaledale Bio Village Project,” prepared for the Swaledale Economic Development Committee, Spring, 2004.

Invited Book Review

*** Haddad, Mônica. “Review of ‘A Framework for Geodesign: Changing Geography by Design’ by Carl Steinitz, ESRI Book Press, 2012” *Journal of Planning Education and Research*, Vol. 35, No. 2, pp 228-230.

Haddad, Mônica. May 2007. “Review of ‘Mastering ArcGIS’ by Maribeth Price, McGraw-Hill, 2006” *Photogrammetric Engineering and Remote Sensing*, Vol. 73, No. 5, pp. 500.

Extension Publications

Haddad, Mônica. 2006. “GIS Diagnostics Program: Beyond Mapping – Using GIS to Enhance Planning Tasks” Iowa State University Publication, Ames, IA, 4 pages.

Articles in Professional Publications

Haddad, Mônica. March 2006. “GIS Diagnostics: A New ISU Extension Program.” *The Iowa County*.

Abstract Publication

Haddad, Mônica. 2005. “Using spatial Statistics to Analyze Intra-Urban Inequalities and Public Intervention in São Paulo” in Susan E. Batty (ed.), *CUPUM 05 – Abstracts of the International Conference, London 2005*. Center for Advanced Spatial Analysis, University College London, pp. 241, (Zorica Nedović-Budić, co-author).

GIS Tutorials (Extension-related)

*** Tutorial for the APA GIS Workshop Addressing Development and Planning Issues with GIS, Summer, 2014.

*** Tutorial for the APA GIS Workshop Beyond Simple Mapping, Summer, 2013 (Shannon Thol, co-author).

*** Tutorial for the APA GIS Workshop Spatial Exploration of the 2010 Census, Summer, 2012 (Shannon Thol, co-author).

Tutorials for the advanced GIS class (CRP 452/552). CRP, Ames, IA, last updated Spring, 2008.

Tutorials for the Public Works Geodatabase Workshop. City of Hawarden, IA, Spring, 2008 (Corey Miciunas, co-author).

Tutorial for the Geocoding Workshop. Iowa Department of Revenue, Spring, 2008 (Shannon Thol, co-author).

Tutorials for the High Schools' GIS class. Mid- Prairie High School, Wellman; Washington High School, Washington; and Columbus High School, Columbus Junction; Summer, 2007.

Tutorials for the Land Parcel Geodatabase Workshop. City of Hawarden, IA, Fall, 2006 (Daniel Nack, co-author).

Conference Presentations

*** "Community participation and site suitability: Searching for innovation in Evaluation Models." Presentation at the 2017 GeoDesign South America. Belo Horizonte, Brazil, December 11-14, 2017 (Yuwen Hou, co-author).

*** "Climate change, water and sanitation: learning from the global south." Presentation at the 57th Association of Collegiate School of Planning (ACSP) Annual Conference. Denver, Colorado, October 12-15, 2017 (Kelly Naumann & Sydney Garland, co-authors).

*** "Commuting in a Residential Segregated Region: Implications for the Urban Poor." Presentation at the 63rd Annual North American Meetings of Regional Science Association International. Minneapolis, MN, November 9-12, 2016.

*** "Institutionalizing ADVANCE: Successes and Challenges of Expanding Equity Advisors to All Colleges." Presentation at the ADVANCE/GSE Program Workshop. Baltimore, May 22-24, 2016 (with Lamont, Larson, and Sundararajan).

*** Rotolo M, Haddad M, Sun Y, Giménez-Lirola L, Bade S, Baum D, Gauger P, Hoogland M, Main R, Zimmerman J. Dec 6, 2016. Spatial autocorrelation and implications for oral fluid-based PRRSV surveillance. 97th Ann Meet Conference of Research Workers in Animal Diseases. Chicago, Illinois.

*** "Decent work and social protection in Belo Horizonte, Brazil." Center for Excellence in the Arts and Humanities – Arts and Humanities Research Summit Lightning Talk Presentation. January 21st, 2016.

*** "A Framework to examine the environmental dimension of urbanization in Brazil." Presentation at the 62nd Annual North American Meetings of Regional Science Association International. Portland, OR, November 11-14, 2015 (Ana Clara Mourão Moura, co-author).

- *** “Decent work and social protection in Belo Horizonte, Brazil.” Presentation at the 55th Association of Collegiate School of Planning (ACSP) Annual Conference. Houston, Texas, October 22-25, 2015 (Joshua Hellyer, co-author).

- *** “Comparing Urban Growth and Infrastructure Expansion in a Brazilian Metropolitan Region.” Presentation at the 61th Annual North American Meetings of Regional Science Association International. Washington D.C., November 13-16, 2014 (Grazielle Carvalho and Ana Clara Mourão Moura, co-authors).

- *** “HCV Voucher Distribution in the San Francisco Bay Area Region, 2000 - 2010.” Presentation at the 60th Annual North American Meetings of Regional Science Association International. Atlanta, Georgia. November 13-16, 2013 (Jane Rongerude, co-author).

- *** “Bridging metropolitan growth and regional zoning in Greater Des Moines, Iowa U.S.”. 13th International Conference on Computers in Urban Planning and Urban Management. Utrecht, Netherlands. July 2-5 2013 (Shannon Thol and Gary Taylor, co-authors).

- *** “Equitable Distribution of Open Space: Using Spatial Analysis to Evaluate Urban Parks in Curitiba, Brazil.” Presentation at the Joint AESOP/ACSP Congress. Dublin, Ireland. July 15-19 2013 (Joseli Macedo, co-author).

- *** “A Site Suitability Study for Bike sharing in a College Town.” Bicycle Urbanism Symposium, Washington. June 2013 (Yuwen Hou, co-author)

- *** “Bridging metropolitan growth and regional zoning in Greater Des Moines, Iowa U.S.” Presentation at the 11th Biennial Iowa Geographic Information Council Conference. Cedar Rapids, Iowa. April 2-4 2013 (Shannon Thol and Gary Taylor, co-authors).

- *** “Spatial Municipal Analysis of Education Inequality in Brazil, 2000-2010.” Presentation at the 59th Annual North American Meetings of Regional Science Association International. Ottawa, Canada, November 7-10, 2012 (Ana Maria Barufi, coauthor).

- *** “An Uniform Zoning Classification for the Des Moines Metro Area.” Presentation at the APA Iowa Chapter Conference, Ames, Iowa. November 2012 (Gary Taylor, co-author).

- *** “Regional Coordination and Governance Case Studies: Examples for The Tomorrow Plan.” Presentation at the APA Iowa Chapter Conference, Ames, Iowa. November 2012 (Carlton Basmajian, co-author).

- *** “Assessing the impacts of watershed indexes and precipitation on spatial in-stream E. coli concentrations.” Presentation at the American Water Research Conference (AWRA) "2012 AWRA

Spring Specialty Conference", New Orleans, Louisiana, March 26-28, 2012 (Pandey, Pramod, Soupir, Michelle, and Rothwell, co-authors)

*** "Quality of Education and Public Resources Allocation in Brazil." Presentation at the 58th Annual North American Meetings of Regional Science Association International. Miami, Florida, November 9-12, 2011 (Ricardo Freguglia and Claudia Gomes, co-authors).

*** "Quality of Education and Public Resources Allocation in Brazil." Presentation at the 52nd Association of Collegiate School of Planning (ACSP) Annual Conference. Salt Lake City, Utah, October 13-16, 2011 (Ricardo Freguglia and Claudia Gomes, co-authors).

*** "Latino Education in the American Midwest: Impacts on Public School Districts' Performance." Presentation at the 51th Association of Collegiate School of Planning (ACSP) Annual Conference. Minneapolis, Minnesota, October 7-11, 2010.

*** "Do Poverty Alleviation Strategies Match Social Need? A Case Study of Cash Assistance in Iowa." Presentation at the 50th Association of Collegiate School of Planning (ACSP) Annual Conference. Crystal City, Virginia, October 1-4, 2009.

"Bolsa Família and School Attendance: Does Accessibility Matter?" Presentation at the 58th Annual Center for Latin American Studies Conference, The Urban Divide in Latin America: Challenges and Strategies for Social Inclusion, Gainesville, FL, January 2009 (Ana Fava, co-author).

"Re-visiting Neighborhood Indicators: An Application for the City of Des Moines." Presentation at the Association of Collegiate Schools of Planning (ACSP) and the Association of European Schools of Planning (AESOP) Fourth Joint Congress, Chicago, IL, July 2008 (Karen Quance Jeske, co-author).

"Plant Location Factors of the Ethanol Industry." Presentation at the Town/Craft Biofuels and the Rural Economy Roundtable, Perry, IA, May 2008 (Gary Taylor and Francis Owusu, co-authors).

"Why Do Ethanol Plants Locate Where They Do? Locational Choices of Ethanol Refineries in the American Midwest." Presentation at the Annual Meeting of the Association of American Geographers, Boston, MA, April 2008 (Gary Taylor and Francis Owusu, co-authors).

"The Politics of Geography, Achievement, and Urban Education." Presentation at the American Educational Research Association Annual Meeting, New York, NY, March 2008 (Thomas Alsbury, co-author).

"Cash Transfer and the Needy: Is Allocation Equitable in Brazil?" Presentation at the 48th Association of Collegiate School of Planning Annual Conference, Milwaukee, WI, October 2007.

“Social Programs and the Needy: Is Allocation Equitable in Iowa?” Presentation at the 8th Biennial GIS Conference – Iowa Geographic Information Council, Sioux City, IA, April 2007 (Kelly Delmonico, co-author).

“A Spatial Approach to Assess Student Performance from Rural and Urban Schools in Brazil.” Presentation at the 53rd Annual North American Meeting of the Regional Science Association International, Toronto, Canada, November 2006 (Raul A. C. Santos, co-author).

“Comparing Student Performance from Rural and Urban Public Schools in Brazil: An Econometric Approach.” Presentation at the 52nd Annual North American Meeting of the Regional Science Association International, Las Vegas, NV, November 2005 (Raul A. C. Santos, co-author).

“GIS Site Suitability Modeling to Identify Potential Corn Stover Collection Sites in Northern Iowa.” Presentation at the 7th Biennial GIS Conference – Iowa Geographic Information Council, Ames, IA, September 2005 (Paul F. Anderson, co-author).

“Using Spatial Statistics to Analyze Intra-urban Inequalities and Public Intervention in São Paulo.” Presentation at the 9th International Conference on Computers in Urban Planning and Urban Management (CUPUM 05), London, UK, July 2005 (Zorica Nedović-Budić, co-author).

“Spatial Analysis for Public School Decision Support.” Presentation at the National Association of Community Development Extension Professionals (NACDEP), Las Vegas, NV, February 2005 (Petrutza Caragea, co-author).

“Spatial Analysis of Employment Centers: A Comparative Approach of US Metropolitan Areas (1990 - 2000).” Presentation at the 51st Annual North American Meeting of the Regional Science Association International, Seattle, WA, November 2004 (Julie Le Gallo and Rachel Guillain, co-authors).

“Growth and the Density of Public Expenditure.” Presentation at the 45th Association of Collegiate Schools of Planning (ACSP) Conference, Portland, OR, October 2004 (Maureen Kilkenny, co-author).

“Human Development and Regional Inequalities: A Spatial Econometrics Analysis Across Brazilian Municipalities.” Presentation at the 50th Annual North American Meeting of the Regional Science Association International, Philadelphia, PA, November 2003.

“An Exploratory Spatial Data Analysis of Human Development in Brazil, 1970-2000.” Presentation at the 42nd Southern Regional Association Meeting, Louisville, KY, April 2003.

“Human Development in the Face of Regional Inequalities: The Case of Brazil.” Presentation at the 44th Association of Collegiate Schools of Planning (ACSP) Conference, Baltimore, MD, November 2002.

“Developing a System for Socially Related Investments.” Presentation at the Hewlett/Brazil Project Semi Annual Workshop, Urbana, IL, December 2002.

“Spatial Human Development Index: A Useful Tool for Planning?” Presentation at the Hewlett/Brazil Project Annual Workshop, Rio de Janeiro, Brazil, August 2002

Poster

*** **“Towards healthy cities: A spatial analysis of prevalence of diseases.”** Poster presentation at the **UCGIS Symposium. Madison, WI, May 22-24, 2018 (Lucas Magalhães, co-author).**

*** Rotolo M, Haddad M, Sun Y, Giménez-Lirola L, Bade S, Baum D, Gauger P, Hoogland M, Main R, Zimmerman J. Dec 2016. Spatial autocorrelation and implications for oral fluid-based PRRSV surveillance. Proc North American PRRS Symposium. Chicago, Illinois, Abstr #23.

*** “Spatial Municipal Analysis of Education Inequality in Brazil, 2000-2010.” Poster presentation at the 13th International Conference on Computers in Urban Planning and Urban Management. Utrecht, Netherlands. July 2-5 2013 (Ana Maria Barufi, co-author).

“Exploratory Spatial Data Analysis of the Distribution of Student Performance and Some of Its Correlates.” Poster presentation at the 9th International Conference on Computers in Urban Planning and Urban Management (CUPUM 05), London, UK, July 2005 (Petrutza Caragea, co-author).

“Reducing Intra-Urban Inequalities: Spatial Analysis of Public Intervention.” Poster presentation at the Faculty Exhibition at the College of Design, Ames, IA, March 2004.

Grants for Research

Applied

*** **“Collaborative research: A Critical Examination of Green Gentrification in Latin American Cities,”** Co-Pi, National Science Foundation, \$400,000, CO-PI: Hamil Pearsall (pending).

*** **“Towards Healthy Cities: Introducing a socio-spatial integrative framework for obesity,”** Principal Investigator, ISU U-TuRN, \$5,000, CO-PIs: Cristina Poleacovschi, Spyridoula Vazou, and Caroline Westort (funded).

*** **“Resilient Micropolitan Areas: Evaluating Coping Mechanisms after Economic shocks.”** CO-Principal Investigator, ISU Presidential Interdisciplinary Research Seed Grant Program (PIRS), \$44,351, Cristina Poleacovschi (PI), David Peters and Eric Rozier (funded).

*** “Geo-technologies, urban governance and the politics of sustainability in Southern cities.” CO-Principal Investigator, Consortium of four universities located in four different countries Belmont-

NSF, €179,623 for ISU, Elisabeth Peyroux (PI), Karin Pfeffer, and Vijayabaskar Manimegalai (not funded).

*** Bruna (not funded)

Honors and Awards

*** Iowa State University. Foreign Travel Grant to present a paper and to chair the session on ‘Spatial Analysis and Visualization’ at the conference GeoDesign South America, Belo Horizonte, Brazil, December 2017 (\$1,407).

*** “Urban planning tools in Brazil: Moving towards environmental protection” Faculty Professional Development Assignment, Spring 2015.

*** Iowa State University. Foreign Travel Grant to be a Research Fellow, Center for Latin America Research and Documentation, University of Amsterdam, Netherlands, January – April 2015 (\$750).

*** “Examining Social Protection and Decent Work in Belo Horizonte, Brazil” \$5,000, the ISU Center for Excellence in the Arts and Humanities, May 2012.

*** Big 12 Fellowship at the University of Texas – Austin, Population Research Center, April 12-21, 2012.

2008-2009 CRP-LA Research/Scholarship Incentive Grant. “Bringing Environmental Sustainability Issues to Iowa Planning Arena” Spring 2009 (\$4,234).

Iowa State University. Foreign Travel Grant to present at the 9th International Conference on Computers in Urban Planning and Urban Management (CUPUM 05), London, UK, July 2005 (\$690).

Iowa State University. President’s Grant for New Faculty. “Spatial Analysis for Local Public Finance Decision Support” (Petruzza Caragea, co-principle investigator), Summer 2004 (\$11,600).

Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign. Outstanding Ph.D. Award, May 2004.

Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign. Conference Travel Grant to present at the 44th Association of Collegiate Schools of Planning (ACSP) Conference, Baltimore, MD, November 2002 (\$250).

Graduate College, University of Illinois at Urbana-Champaign. Conference Travel Grant to present at the 44th Association of Collegiate Schools of Planning (ACSP) Conference, Baltimore, MD, November 2002 (\$250).

Hewlett Foundation. Travel Grant to collect data for my Ph.D. dissertation in Brazil, Summer 2003 (\$3,400).

Center for Latin American and Caribbean Studies, University of Illinois at Urbana-Champaign. Travel Grant to conduct interviews for my Master's thesis, April 1999 (\$2,000).

Graduate College, University of Illinois and Urbana-Champaign. Travel Grant to conduct interviews for my Master's thesis, April 1999 (\$250).

Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign. Student representative on the search committee for a new faculty member in International Planning, October 1998 – February 1999.

Prize winning proposal for the architectural design of a 38 duplex house neighborhood, Mainz, Germany, July 1996.

Gold Medal BIAB'94 at the International Forum of Young Architects, Recife, Brazil, Summer 1994.

Special Mention from the Jury of the National Architectural Competition: Brazilian Pavilion World Expo Sevilla92 in Seville, Spain, 1991.

Federal University of Minas Gerais. Research Fellowship (CNPq) "The Examination of the Norberg-Schulz's Spatial Concepts Focusing on the History of Architecture", February 1987 – February 1988.

Service in professional society

*** North American Regional Science Council (NARSC) Councilor-at-Large for 2015-2017 (elected Summer 2014).

3 - POSITION RESPONSIBILITIES: EXTENSION/PROFESSIONAL PRACTICE

GIS Workshops

*** **Workshop- Introdução à Análise Exploratória de Dados Espaciais, Instituto Universitário de Lisboa, Portugal. June 25, 2018, invited (16 students).**

*** Workshop sponsored by APA Iowa Chapter, ISU Campus, June 02 and June 11, 2014.

*** GIS Workshop "Introduction to GIS for Urban and Regional Planners." Universidade Federal de Viçosa, Brazil. November 2013, invited.

*** APA GIS Workshop "Beyond Simple Mapping with GIS" sponsored by APA Iowa Chapter, ISU Campus, May 20 and May 29, 2013.

*** GIS Workshop “GIS for Social Scientists” Universidade Federal de Juiz de Fora, Brazil. November 2012, invited.

*** GIS Workshop “Planning for Open Space: a Spatial Analysis of Subdivisions in Des Moines” 2012 APA Iowa Chapter Conference, Ames, Iowa. November 2012.

*** APA GIS Workshop “Spatial Exploration of 2010 Census” sponsored by APA Iowa Chapter, ISU Campus, May 22 and August 10, 2012.

Public Works Geodatabase Workshop. Six-hour workshop that provided hands-on experience with Geodatabases using tutorials specially designed for Hawarden staff and spatial data from the city’s entire infrastructure networks. City of Hawarden, IA, May 28, 2008.

Geocoding Workshop. Four-hour workshop for Iowa Department of Revenue employees which covered the basics of Geocoding with ArcGIS 9.2. College of Design GIS Lab, May 21, 2008.

“Mapping a Better Future for the Youth in Iowa”. One-hour workshop for the Iowa State University Office of Precollegiate Programs for Talented and Gifted, College of Design GIS Lab, March 31, 2007.

Land Parcel Geodatabase Workshop. Six-hour workshop that provided hands-on experience about Geodatabases using tutorials specially designed for Hawarden staff and City spatial data. City of Hawarden, IA, December 20, 2006.

Regional Land Use Inventory Workshop. Twelve hour (six hours per day for two days) workshop with hands-on experience covering all the data prepared for the East Central Iowa Council of Governments project. Cedar Rapids, IA, December 11-12, 2006.

GIS Workshop – Basics of ArcGIS 9.0. Fourteen hour (seven hours each day for two days) workshop for Iowans from public and private practice who wanted to learn more about the basics of the technology. College of Design GIS Lab, June 9-10, 2005.

GIS Workshop – Basics of ArcGIS 9.0. Fourteen hour (seven hours each day for two days) workshop for Iowans from public and private practice who wanted to learn more about the basics of the technology. College of Design GIS Lab, May 5-6, 2005.

GIS Workshop – Advanced ArcGIS 9.0. Seven hour workshop for Iowans from public and private practice who wanted to learn more about advanced spatial analytical tools. College of Design GIS Lab, December 3, 2004.

GIS Workshop – Basics of ArcGIS 9.0. Fourteen hour (seven hours each day for two days) workshop for Iowans from public and private practice who wanted to learn more about the basics of the technology. College of Design GIS Lab, November 19-20, 2004.

GIS Workshop – Exploring Spatial Analyst from ArcGIS 8.3 Fourteen hour (seven hours each day for two days) workshop for Iowans from public and private practice who wanted to learn more about raster data analysis. College of Design GIS Lab, June 25-26, 2004.

GIS Workshop – Advanced ArcGIS 8.3 Fourteen hour (seven hours each day for two days) workshop for Iowans from public and private practice who wanted to learn more about advanced spatial analytical tools. College of Design GIS Lab, June 18-19, 2004.

GIS Workshop – Basics of ArcGIS 8.3. Fourteen hour (seven hours each day for two days) workshop for Iowans from public and private practice who wanted to learn more about the basics of the technology. College of Design GIS Lab, June 11-12, 2004.

“Introduction to GIS” Workshop, College of Design Career Days, Ames, IA, March 2004.

Invited presentations/technical assistance to communities

*** “Spatial tools for analyzing urban structures.” Invited presentation at the Utrecht University of Technology, Netherlands. March 26, 2015.

*** “Spatial tools for analyzing urban structures.” Invited presentation at the Center for Latin America Research and Documentation, University of Amsterdam, Netherlands. March 23, 2015.

*** “A Contemporary methodology to analyze spatial structures.” Invited presentation at the Federal University of Minas Gerais, Brazil. March 17, 2014.

*** “Bridging metropolitan growth and regional zoning in Greater Des Moines, Iowa U.S.,” “Equitable Distribution of Green Space: Urban Parks in Curitiba, Brazil” and “Spatial Municipal Analysis of Education Inequality in Brazil, 2000-2010”. Invited presentation at the Federal University of Viçosa, Brazil. August 7, 2013.

*** “Spatial Municipal Analysis of Education Inequality in Brazil, 2000-2010”. Invited presentation at the School of Management and Business, Aberystwyth University, Wales. July 12, 2013.

*** “Spatial Equity and Urban Amenities: the Case of Parks in Curitiba” with co-author Joseli Macedo. Invited presentation at the Socio-spatial Change in Rural-urban Latin America Symposium. College of Design, Ames, Iowa. 5 April 2013.

*** “Regional Coordination and Governance Case Studies: Examples for The Tomorrow Plan” with co-author Carlton Basmajian. The Tomorrow Plan Steering Committee Meeting. September 2012.

*** “Planning for Open Space: a Spatial Analysis of Subdivisions in Des Moines” City of Des Moines planning staff. September 2012.

*** “Planning for Open Space: a Spatial Analysis of Subdivisions in Des Moines.” Invited presentation at the Universidade de Brasilia (UNB). Brasilia, Brazil. July 2012.

*** “Quality of Education and Public Resources Allocation in Brazil” with co-authors Claudia Gomes and Ricardo Freguglia. Brazil Center at the Teresa Lozano Long Institute of Latin American Studies – The University of Texas at Austin. April 17, 2012.

*** “Planning for Open Space: a Spatial Analysis of Subdivisions in Des Moines”. Invited presentation at the School of Natural Resources, University of Nebraska-Lincoln. April 06, 2012.

*** “Searching for Planning-related Documents Pre- and Post-Flood” part of report: Housing Needs Assessment Model: Has Housing Recovered in Iowa Communities After the Floods of 2008? 2011 Housing Iowa Conference. Des Moines, IA, September 8th, 2011.

Communities Radio Times with Doug Cooper. Four-minute interview about my Extension programs and areas of study. August 4, 2008.

Results of Greene County Bioeconomy Project. One and one-half hour presentation to stakeholders involved with Greene County Farms Bureau. Jefferson, IA, February 19, 2008.

Results of Greene County Bioeconomy Project. One and one-half hour presentation to Rotary Club members. Jefferson, IA, December 3, 2007.

PowerPoint presentation about Corn Stover project to Vermeer visit to ISU campus, March 2007.

PowerPoint presentation to Lawler & Swanson, PLC for the lawsuit B.J. Doane, LTD. vs. Cerro Gordo County, Fall, 2006.

PowerPoint presentation about Corn Stover project to ADM visit to ISU campus, September 2006.

“Using Spatial Statistics to Examine Student Proficiency in Iowa.” Presentation at the College of Design’s “This Friday” Seminar Series, Ames, IA, April 2006.

“Educating Young Women on GIS” Guest presentation at the 7th Biennial GIS Conference – Iowa Geographic Information Council, Ames, IA, September 2005.

Results of Corn Stover Project. One-hour presentation at the Value-Added Ag. Support Team meeting. Farm Bureau Federation, IA, August 05, 2005.

“Trends in GIS.” Presentation at the 49th Shade Tree Workshop, College of Design GIS Lab, March 16, 2005.

4-H Youth Tech Team Workshop. Three-hour workshop for K-12 students who were learning GIS through ISU 4-H Extension. College of Design GIS Lab, March 11, 2005.

“Trends in GIS.” Presentation on two different days to 36 people at the 48th Shade Tree Workshop, College of Design GIS Lab, March 9-10, 2004.

Extension-Related Grants, Contracts, and Fee Generation

*** Registration fees. One-day workshop “Addressing Development and Planning Issues with GIS” sponsored by APA Iowa Chapter, June 02 and June 11, 2014 (\$4,500 in registration fees).

*** Registration fees. One-day workshop “Beyond Simple Mapping” sponsored by APA Iowa Chapter, May 20 and May 29, 2013 (\$4,500 in registration fees).

*** “Identifying Optimal Corn Stover Storage Sites in Central Iowa”, prepared for DuPont, May-October 2013 (\$15,500).

*** Registration fees. One-day workshop “Spatial Exploration of 2010 Census” sponsored by APA Iowa Chapter, May 22 and August 10, 2012 (\$4,500 and \$3,750 in registration fees respectively).

*** “The integration of Latino Immigrants in Iowa’s schools: Understanding and enhancing institutional and instructional Capacity for academic success” (unfunded full proposal prepared for the Roy Carver Charitable Trust, \$283,093 unfunded)

City of Waukee. Downtown Waukee Master Plan, CRP 532, PLaCE Program College of Design, Fall 2008 (\$4,654).

City of Waukee. Mail survey, Summer 2008 (\$3,909).

Iowa Department of Revenue. Geocoding project, Spring 2008 (\$3,000).

Neighborhood Development Corporation (NDC). Spatially Examining Neighborhood Indicators for NDC, March – September 2008 (\$9,666).

Greene County Development Corporation, Iowa Energy Center, and Leopold Center for Sustainable Agriculture. Greene County Bioeconomy project (with Paul F. Anderson and Craig Hertel, co-principle investigators), April 2007 – November 2007 (\$11,600).

GIS Diagnostics, Institute for Design Research and Outreach, College of Design. Hawarden Phase II – City of Hawarden Public Works Geodatabase, Spring 2007 (\$7,516).

GIS Diagnostics, Institute for Design Research and Outreach, College of Design. Hawarden Phase I – City of Hawarden Land Use Geodatabase, Fall 2006 (\$5,466).

GIS Diagnostics, Institute for Design Research and Outreach, College of Design. East Central Iowa Council of Governments (ECICOG), Regional Land Use Inventory, Fall 2006 (\$5,466).

GIS Maps for the lawsuit B.J. Doane, LTD versus Cerro Gordo County, Lawler & Swanson, PLC, Fall 2006 (\$500).

Leopold Center for Sustainable Agriculture, W. K. Kellogg Foundation, Iowa Northern Railway Company, and Mells Industries. Corn Stover project, Summer 2005 (\$10,050).

ISU Public Policy and Administration Program. Iowa's Local Government Networks and Interlocal (28e) Agreements, Spring 2005 (\$6,000).

Registration fees. Seven GIS Workshops that took place at the College of Design GIS Lab, June 2004 – June 2005 (\$24,500 in registration fees).

Professional Development

***** Coastlines and People Scoping Workshop project funded by the National Science Foundation (NSF), Chicago, Illinois, September 26-28, 2018.**

***** TRELIS Workshop: Training and Retaining Leaders In STEM - Geospatial Sciences (TRELIS), project funded by the National Science Foundation (NSF), Madison, Wisconsin, May 19-21, 2018.**

*** Early Adopter of Canvas (new ISU teaching online platform), Fall 2017.

*** Faculty Success Program from the National Center for faculty Development and Diversity, Fall 2017.

*** Cornell Interactive Theater Ensemble, October 2017.

*** Inclusive Classroom Faculty Development Workshop at the ISU Center for Excellence in Learning and Teaching, October 10, 2016.

*** Expanding Diversity Perspectives: A Curriculum Development Workshop with Dr. Geneva Gay, at ISU, September 17, 2016.

*** Team-Based Learning Summer Workshop at the ISU Center for Excellence in Learning and Teaching, June 22-24, 2016.

*** Cities and Inequalities in a Transnational World. Joint Area Centers Symposium. University of Illinois at Urbana-Champaign. March 1-3, 2012.

*** Innovation for Poverty Action – Workshop on Randomized Experiments; three-day Summer 2010.

*** Grant Writing Workshops by Dr. David Morrison, Spring 2010.

2008-09 Seminar: Sustaining the Earth: Public Scholarship in the Arts and Humanities, ISU Center for Excellence in the Arts and Humanities, Fall 2008.

Received Human Subjects Certification, June 2007.

Attended Conference "The Small Town in the Bioeconomy," Ames, IA, April 10, 2007.

Attended Iowa Water Conference "Bioenergy Implications for Water Quantity and Quality," Ames, IA, March 2007.

Attended AIA Iowa Conference "Designing Cool Communities," Des Moines, IA, May 2006.

Attended the Center for Excellence in Learning and Teaching Biennial Renewal of the Teaching Spirit Conference, Springbrook Conservation Education Center, Guthrie Center, IA, September 2005.

Attended ESRI workshops "Building Geodatabases I and II," Saint Louis, MO, August 2005.

Attended Geospatial Workshop: Building Partnerships to Reduce Hazard Risks, sponsored by FEMA, Indianapolis, IN, April 19-21, 2005.

Attended Conference "Small Towns towards Success," Decorah, IA, September 2004.

Attended Annual Conference of the Iowa Chapter of the American Planning Association (APA), Fort Dodge, IA, November 2003.

Journal Reviewer

- The Annals of Regional Science;
- Journal of Geoscience Education;
- Journal of Human Development;
- Journal of Planning History;
- Journal of Urban Affairs; ***
- Landscape and Urban Planning; ***
- Land Use Policy; ***
- Rural Sociology; ***
- Biomass and Bioenergy: ***
- Journal of Planning Education and Research; ***
- Papers in Regional Science; ***
- **Cities.** ***

Service in Organizations and Events

*** **Program Chair for the 65th Annual North American Meetings of Regional Science Association International. Santo Antonio, TX, November 7-10, 2018 (forthcoming).**

*** North American Regional Science Council (NARSC). Co-Chair of the NARSC Graduate Student Paper Award contest. September-November, 2014.

*** National Conference of Planning and Development. Member of the Scientific Committee responsible for paper selection. Sponsored by the Programa de Pós-Graduação em Planejamento e Governança Pública) da Universidade Tecnológica Federal do Paraná. July, 2014.

*** Reviewing a paper for the 2014 International Planning History Society conference.

Association of Collegiate Schools of Planning (ACSP) Global Planning Educators Interest Group member, July 2008 – July 2009.

Steering committee member for the 58th Annual Conference of the Center for Latin American Studies (University of Florida) “The urban divide in Latin America: Challenges and Strategies for Social Inclusion,” January 2009, Gainesville, FL.

Article review process for the International Planning History Society, 13th Biennial Conference, July 10-13, 2008, Chicago, IL.

4 - POSITION RESPONSIBILITIES: TEACHING AND ADVISING

Visiting Professorship

*** Visiting Professor at a Brazilian University from a Foreign University. Universidade Federal de Minas Gerais, March 2014.

*** Visiting Professor at a Brazilian University from a Foreign University. Universidade Federal de Viçosa, November 2013.

*** Visiting Professor at a Brazilian University from a Foreign University. Universidade Federal de Juiz Fora. November 2012.

Teaching as a Visiting Professor

*** Graduate class (1 credit) SIG para Planejadores Urbanos e Regionais. Universidade Federal de Minas Gerais, March 2014.

Teaching Assignments and Responsibilities

Courses are listed by course number, from lower to upper levels in the degree programs. I have been responsible for 100 percent of the curriculum development for all of the courses.

When the semester is in *italic* and **bold** is refers to Post-Tenure teaching.

CRP 391 Field Travel (1 credit, a required undergraduate level class)

- **Fall 2012** – Baltimore (Enrollment: 11 students)
- **Fall 2013** – Dallas (Enrollment: 8 students)
- **Fall 2014** – Portland (Enrollment: 8 students)
- **Fall 2015** – Chicago (Enrollment: 11 students)
- **Spring 2017** – Kansas City (Enrollment: 18 students)
- **Spring 2018** – Minneapolis (Enrollment: 14 students)

CRP 498 Portfolio Development and Review

- **Fall 2014** (Enrollment: 12 students)
- **Fall 2015** (enrollment: 6 students)

CRP 564 Introduction to Analytical Methods for Planning (every semester I include an outreach component)

- **Fall 2010** (Enrollment: 11 students)
- **Fall 2011** (Enrollment: 7 students)
- **Fall 2012** (Enrollment: 11 students) – included outreach component
- **Fall 2013** (Enrollment: 14 students) – included outreach component
- **Fall 2014** (Enrollment: 20 students) – included outreach component
- **Fall 2015** (Enrollment: 16 students) – included outreach component
- **Fall 2016** (Enrollment: 11 students) – included outreach component
- **Fall 2017** (Enrollment: 13 students) – included outreach component (Rural Revitalization Needs Assessment Survey for the McClure Engineering Company)
- **Fall 2018** (Enrollment: 14 students)

CRP 460/560 Social Justice and Planning

- **Spring 2013** (Enrollment: 6 students)
- **Spring 2014** (Enrollment: 13 students)
- **Spring 2016** (Enrollment: 11 students) – included outreach component

CRP 481/581 Regional and State Planning

- **Spring 2010** (Enrollment: 17 students)

CRP 532 Community Planning Studio (4 credits, a required graduate level class for MCRP students)

- Fall 2008 (Enrollment: 8 students)

CRP 452/552 Geographic Data Management and Planning Analysis (3 credits, elective for graduate and senior undergraduate students)

- Fall 2003 (Enrollment: 11 students)
- Summer 2004 (Enrollment: 8 students)
- Fall 2004 (Enrollment: 16 students)
- Spring 2005 (Enrollment: 16 students)
- Fall 2005 (Enrollment: 9 students)

- Spring 2006 (Enrollment: 10 students)
- Fall 2006 (Enrollment: 8 students)
- Spring 2007 (Enrollment: 11 students)
- Spring 2008 (Enrollment: 17 students)
- **Spring 2009** (Enrollment: 9 students)
- **Spring 2010** (Enrollment: 18 students)
- **Spring 2011** (Enrollment: 12 students)
- **Spring 2012** (Enrollment: 15 students)
- **Spring 2013** (Enrollment: 17 students)
- **Spring 2014** (Enrollment: 17 students)
- **Spring 2016** (Enrollment: 15 students)
- **Spring 2017** (Enrollment: 14 students)
- **Spring 2018** (Enrollment: 17 students) – included outreach component (Exploratory Spatial Data Analysis for the Greater Des Moines Habitat for Humanity)

CRP 551 Introduction to Geographic Information Systems (3 credits, elective for graduate students)

- Spring 2004 (Enrollment: 23 students)

CRP 595 Seminar in GIS Applications and Research (1 credit, a required graduate level class for GIS Certificate candidates)

- Spring 2004 (Enrollment: 4 students)
- Fall 2004 (Enrollment: 5 students)
- Spring 2005 (Enrollment: 8 students)
- Spring 2007 (Enrollment: 8 students)
- Spring 2008 (Enrollment: 4 students)
- **Fall 2009** (Enrollment: 5 students)
- **Spring 2010** (Enrollment: 7 students)
- **Fall 2010** (Enrollment: ? students)
- **Spring 2011** (Enrollment: ? students)
- **Fall 2011** (Enrollment: 5 students)
- **Spring 2012** (Enrollment 10 students)
- **Fall 2012** (Enrollment 2 students)
- **Spring 2013** (Enrollment 6 students)
- **Fall 2013** (Enrollment: 3 students)
- **Spring 2014** (Enrollment 7 students)
- **Fall 2014** (Enrollment: 1 student)
- **Fall 2015** (Enrollment: 4 students)
- **Spring 2016** (Enrollment: 9 students)
- **Fall 2016** (Enrollment: 1 students)
- **Spring 2017** (Enrollment: 16 students)
- **Fall 2017** (Enrollment: 3 students)
- **Spring 2018** (Enrollment: 11 students)

Curricular Development Activity

New Course Development

*** *CRP 460/560 Social Justice and Planning* - Investigation of the topic of social justice as it relates to the challenge of planning more socially just urban societies, emphasizing the importance of social justice issues to planning in a globalized world. Includes a range of issues and case studies of local social justice initiatives, both US and global. Students will complete individual service learning projects as part of the course requirements.

CRP 595 Seminar in GIS Applications and Research – The course is designed for GIS Certificate candidates only. The objective is to expose students to a variety of GIS applications and research in multiple disciplines. Every semester a series of speakers are invited to present their GIS-related work.

Course Revisions

*** *CRP 481/581 Regional and State Planning* - Analysis of theories, policies, and functions at the metropolitan, regional, and state levels with emphasis on area-wide governance structures and strategies for guiding development.

*** *CRP 564 Introduction to Analytical Methods for Planning* - Applications of analytical methods in planning with emphasis on the collection, description, analysis, presentation, and interpretation of planning data. Introduction to descriptive statistics. Sources of planning information and data including primary and secondary data types and sources. Demographic analysis, population projection techniques for planning at local and regional levels.

CRP 452/552 Geographic Data Management and Planning Analysis – The course is designed to provide students with a variety of spatial analytical tools, using GIS technologies beyond simple mapping. This course was completely revised when I taught it for the second time, in Fall 2004. I have been updating this course every semester I teach it.

CRP551 Introduction to Geographic Information Systems – I redesigned all hands-on experience tutorials in the Spring 2004 when I taught this course because the software being used was obsolete.

Independent Studies

*** **Master Thesis: Building Social Capital through Community Gardens: Empowering the Citizens of Des Moines, Iowa (CRP699, 6 cr.). Fall 2018, Morgan Bradley.**

*** **GIS Independent Study: Seminar (CRP 590, 1 cr.) Fall 2018, Tian Yu.**

*** **GIS Application/Professional Report: Promoting Walkability: An assessment of sidewalk connectivity within the DART public transportation system (CRP 599, 4 cr.) Spring 2018, Daniel Dvorjak.**

*** **GIS Independent Study: Fundamentals of GIS (CRP 590, 3 cr.) Spring 2018, Melinda Sanchez.**

- *** Honors Program Final Project: Examining the Complexities of Urban Water and Sanitation in Latin America (CRP 490, 4 cr.) Summer 2017, Kelly Naumann.
- *** GIS Application/Professional Report: Poverty Suburbanization in US Metropolis: The case of Dallas Fort Worth (CRP 599, 4 cr.) Fall 2016, Helina Sarkodie-Minkah.
- *** Honors Program Final Project: Where should Students Live? A Student Housing Site Suitability Analysis in Ames, Iowa (CRP 490, 4 cr.) Fall 2016, Laurelin Haas.
- *** GIS Application/Professional Report: Gated Communities and Urban Growth: A Case Study in Brazil (CRP 599, 3 cr.) Summer 2016, Devanshi Mehta.
- *** GIS Independent Study: Using Remote Sensing to Detect Urbanization (CRP 590, 2 cr.) Summer 2016, Devanshi Mehta.
- *** GIS Application/Professional Report: Promoting Access to Public Transit: A Predictive Model (CRP 599, 4 cr.) Spring 2016, Stephen Rashid.
- *** GIS Application/Professional Report: Gated Communities and Urban Growth: A Case Study in Brazil (CRP 599, 1 cr.) Spring 2016, Devanshi Mehta.
- *** GIS Independent Study: GIS Analysis and Business Location Decision-Making (CRP 490, 3 cr.) Spring 2016, Nathan Joens.
- *** Independent Study: Social Justice and Planning (CRP 590, 3 cr.), Spring 2016, Moises Monrroy-Castillo.
- *** GIS Application: The Bakken pipeline, Iowa: Environmental Justice considerations (CRP 590, 3 cr.) Fall 2015, Xiaoyun Zhao.
- *** GIS Application: Integrating multi-criteria evaluation and site suitability analysis: A case study for wind farms in Northwest Iowa (CRP 590, 3 cr.) Fall 2015, Braden Boydston.
- *** Independent study: Site suitability analysis using Model Builder (CRP 590, 2 cr.) Fall 2015, Braden Boydston.
- *** Professional Report: Housing Choice Voucher: Location Pattern and Moving Trajectory in San Francisco Bay Area Region (CRP 599, 4 cr.) Fall 2014, Shuo Liu.
- *** Professional Report: (CRP 599, 4 cr.) Coastal Land Use Planning for the State of Qatar (CRP 590, 4 cr.) Fall 2014, Ahmad Al-Saygh.

- *** GIS Application: Regional Bike Trail Connectivity: A Case Study in Iowa (CRP 590, 3 cr.) Fall 2014, Xiujian Xie.
- *** GIS Application: Applying a Geodesign framework in comprehensive plans – the case of Altoona, Iowa (CRP 590, 3 cr.) Spring 2014, Ben Lozano.
- *** GIS Application/Professional Report: The spatial relationship between vehicle-pedestrian accidents and the built environment in Des Moines, Iowa (CRP 590, 4 cr.) Spring 2014, Joseph Drahos.
- *** Professional Report: A Network for Economic Integration of Immigrants: Supporting Latinos/as in New Gateway (CRP 599, 4 cr.) Spring 2014, Johnny Alcivar.
- *** GIS Application: Comparing Walkable Nodes in the Greater Des Moines Region: A Spatial Analysis (CRP 590, 3 cr.) Fall 2013, Aaron Bartling.
- *** Independent Study: Understanding the IDOT Project Management Process (CRP 590, 3 cr.) Fall 2013, Joseph Drahos.
- *** GIS Application/Professional Report: Site suitability study for bike stations in Ames, Iowa: A mixed approach of spatial analysis and community input (CRP 599, 4 cr.) Spring 2013, Yuwen Hou.
- *** GIS Application/PhD Dissertation: Quantifying Impervious Surface Changes Using Time Series Planimetric Data from 1940 to 2011 in Four Central Iowa Cities, U.S.A. (CRP 590, 3 cr.) Spring 2013, Jiayu Wu.
- *** Independent Study: Exploring advanced GIS techniques (CRP 590, 3 cr.) Fall 2012, Bailey Hanson.
- *** CRP451 make-up: Planning for Open Space: A Spatial Analysis of Subdivisions in Des Moines (CRP 590, 1 cr.) Spring 2012, Sam Hiscocks.
- *** CRP451 make-up (CRP 590, 1 cr.) Spring 2012, Jared Foss.
- *** GIS Application: West Des Moines Public Works - Demonstration of geodatabase functionality for an enterprise environment (CRP 590, 3 cr.) Spring 2010, Allen Carlson.
- *** GIS Application: A Spatial Analysis to Assess Farmland Preservation in Scott County, Iowa (CRP 590, 3 cr.) Fall 2009, Alyson Lutz.
- *** GIS Application: The Effects of Open Space on Housing Prices: A Spatial Study of Des Moines, IA (CRP 590, 3 cr.) Fall 2009, Carissa Miller.
- GIS Application: Assessing Iowa's Wind Energy Industry (CRP 590, 3cr.) Spring 2009, Bethany Wilcoxon.

GIS Application: A Web-Based Public Participation Tool: Greene County Bio-Economy Survey (CRP 590, 3 cr.) Spring 2008, Brad Schmidt.

GIS Application: Examining Transportation and Environmentally Protected Lands for the Greene County Pilot Study (CRP 590, 3 cr.) Summer 2007, Kelly Delmonico.

GIS Application: GIS and the Bioeconomy: A Preliminary Assessment of Water Quality, Water Quantity and Co-Location for the Purposes of Creating a Spatial Survey (CRP 590, 3 cr.) Summer 2007, Basil Mahayni.

GIS Application: Modeling of Urbanization Impacts on Natural Resources, Dakota County, Minnesota (CRP 699, 3cr.) Summer 2007, Lan Wei.

Creative jobs in the Midwest (CRP 590, 2 cr.) Spring 2007, Brad Schmidt.

GIS Application: Exploratory Spatial Analysis of Livelihood Capital Index in Western Kenya (CRP 590, 3 cr.) Spring 2007, Mary Nyasimi.

GIS Modeling of Urbanization Impacts on Natural Resources, Dakota County, Minnesota (CRP 699, 3 cr.) Spring 2007, Lan Wei.

The Economic Importance of Micropolitan Areas in Iowa (CRP 699, 9 cr.) Spring 2007, David Inbody.

Designing the Website for Ames Downtown Project (CRP 699, 2 cr.) Spring 2007, Jagadish Melta.

GIS to K-12 Educators (CRP 590, 3 cr.) Fall 2006, Katie Lewis.

GIS to K-12 Educators (CRP 590, 3 cr.) Fall 2006, Elsa Schmidt.

GIS to K-12 Educators (CRP 590, 3 cr.) Fall 2006, Duane VanWinkle.

Literature Review on Public Participation (CRP 699, 2 cr.) Fall 2006, Jagadish Melta.

GIS Application: GIS and Weather Related Power Outages (CRP 590, 3 cr.) Spring 2006, Daniel Nack.

GIS Application: Building a Community Information System with Open Source GIS to Foster Dialogue and Design (CRP 590, 3 cr.) Spring 2006, Jagadish Melta.

GIS Application: Using Exploratory Spatial Analysis to Study Urbanization of the Metropolitan Region of São Paulo (CRP 590, 3 cr.) Fall 2005, Isha Kaphle.

GIS Application: Spatial Analysis of the Clarkson Site Faunal Remains (CRP 590, 3 cr.) Fall 2005, Erik Otarola-Castillo.

GIS Application: GIS as a Tool in Watershed Analysis (CRP 590, 3 cr.) Summer 2005, Vasudha Pinnamaraju.

A Typology of Online Participation Tools to Aid Community Design of Downtowns and Neighborhoods (CRP 598MH, 2 cr.) Summer 2005, Jagadish Metla.

GIS Application: Identifying Site Formation Processes at the Late Paleoindian Clary Ranch Site (CRP 590M, 3 cr.) Spring 2005, Adam Holven.

GIS Application: Campus Facilities Planning and Management (CRP 590M, 3 cr.) Spring 2005, Liang Hu.

GIS Project: Assessing Automobile Dependence in West Des Moines (CRP 590G, 1 cr.) Spring 2005, Debra Lampe.

Redoing GIS Assignments From CRP 552 (CRP 590G, 3 cr.) Fall 2004, Garrett Burchett.

GIS Application: Imperviousness in Planning for Water Quality: A BASINS Evaluation (CRP 699, 3 cr.) Fall 2004, Karen Louise Johnson.

An Alternative for the GIS Application and Seminar (CRP 590M, 4 cr.) Summer 2004, Monica Barbazan.

Coastal Communities and the Environment: Assessing Negative Impacts Using GIS (CRP 590G, 3 cr.) Summer 2004, Elza Adriana Perez Lopez.

Applying BASINS Methodology to the Raccoon River Basins (CRP 699, 3 cr.) Summer 2004, Karen Louise Johnson.

Revisiting the Theory Behind GIS (CRP 590M, 3 cr.) Spring 2004, Elza Adriana Perez-Lopez.

Learning How to Use the Software BASINS (CRP 699, 3 cr.) Spring 2004, Karen Louise Johnson.

Committee Member of Graduate Students (Doctoral and Master's students at ISU)

When the Graduation column is in *italic* and **bold** is refers to committees Post-Tenure.

Name of Student	Department	PhD Dissertation (+++), Thesis, or Creative Component Title	Graduation
Zhen Zhan*	Landscape Architecture	The Influence of Scale on the Landscape Analysis for Resources Management in the Milwaukee Road Rail Yard, Perry, Iowa	Fall 2004

Vladimir Bassis*	Public Administration	Current State of E-transparency in Ukrainian City Governments	Fall 2005
Karen Louise Johnson***	Community and Regional Planning	Imperviousness in Planning for Water Quality: a BASINS Study	Fall 2005
Kanlaya Jintanakul*	Economics	Factors Affecting Hospital Choice For Rural Iowa Residents	Summer 2005
Elza Adriana Perez-Lopez*	Community and Regional Planning	The Impacts of Tourism within Small Coastal Communities	Spring 2006
Erik Otarola Castillo *	Anthropology	Late Prehistoric (Oneota) Exploitation of Deer at the Clarkson Site, Warren County, Central Iowa	Spring 2006
Adam Craig Holven*	Anthropology	A GIS Analysis of Paleoindian Site Structure at the Clary Ranch Site	Spring 2006
Isha Kaphle*	Community and Regional Planning	Evaluating People's Accessibility to Public Parks using Geographic Information Systems: a Case Study in Ames, Iowa	Fall 2006
Daniel Nack*	Electrical and Computer Engineering	Geographic Information Systems (GIS) Applications in Electric Power Engineering	Spring 2007
David Inbody**	Community and Regional Planning & Public Administration	Exploring Micropolitan Areas as a Source of Population Growth in Iowa	Summer 2007
Lan Wei**	Community and Regional Planning & Landscape Architecture	GIS Modeling of Urbanization Impacts on Natural Resources, Dakota County, Minnesota	Fall 2007
Jagadish Metla**	Community and Regional Planning & Landscape Architecture	Participation Technologies: a Framework for the Development of an Online Interactive GIS Application	Fall 2008
Adam Shell**	Community and Regional Planning (transportation)	Environmental Justice Case Study in the Des Moines Metropolitan Area	Spring 2010
Amy Logan***	Community and Regional Planning	Planning for the urban Sustainable Forrestr: A case study of Johnston, Iowa	Spring 2010
Clint Sloss***	Community and Regional Planning	Cluster Development: A rural development strategy for Allamakee County	Spring 2011
Ben Fisher***	Community and Regional Planning	Brownfields Redevelopment and Gentrification: A Socio-Economic Evaluation of the EPA Brownfields Pilot Program	Spring 2011

Aaron Nelson***	Community and Regional Planning	Site suitability analysis for park-and-ride bus lots: An applied method for the Iowa City Urbanized Area	Spring 2012
Jia Gao*	Civil Engineering (Transportation Engineering)	A study on the relationship between asset condition and safety on primary roads in Iowa	Spring 2012
Yuwen Hou***	Community and Regional Planning	Site suitability study for bike stations in Ames, Iowa: A mixed approach of spatial analysis and community input	Spring 2013
Eman Shoeib*	Community and Regional Planning	Iowa landowners' perception of wind power: A case study	Summer 2013
Jiayu Wu*	Natural Resource Ecology and Management +++	Landscape, hydrological and social factors affecting water quantity and quality in urban headwater streams of central Iowa	Summer 2013
Angela Poole*	Civil Engineering (Transportation Engineering)	Using geographic information systems to aid in preliminary wetland mitigation site selection	Fall 2013
Shelley Oltmans*	Community and Regional Planning	A case study of the food retail system in Accra, Ghana	Fall 2013
Xin Tong*	Community and Regional Planning	A Preliminary Multi-Use Trail Site Selection for the Lake Ahquabi State Park, IA	Fall 2013
Johnny Alcivar***	Community and Regional Planning	Economic Integration of Immigrant Populations: The Latino/a Experience in Des Moines, IA	Spring 2014
Joseph Drahos***	Community and Regional Planning	The spatial relationship between vehicle-pedestrian accidents and the built environment in Des Moines, Iowa	Spring 2014
Laurimar Vendrusculo*	Agricultural and Biosystem Engineering +++	Modelling gully growth and location using data mining technique and high resolution elevation data	Summer 2014
Julie Whitson*	Community and Regional Planning	Bridging the Gap: The Farm and Ranch Lands Protection Program in Iowa	Fall 2014
Shuo Liu***	Community and Regional Planning	Examining the effectiveness of HCV program to de-concentrate poverty in San Francisco Bay Area, 2000 to 2010	Fall 2014
Ahmad Al-Saygh***	Community and Regional Planning	Impacts of population distribution policies on the urban spatial structure of City of Doha	Spring 2015
Stephen Rashid***	Community and Regional Planning	Promoting Access to Public Transit: A Predictive Model	Spring 2016

Jonathan Stytz*	Community and Regional Planning	Safe Pedestrian Routes in Preston Heights, IL: A Walkability Study	Spring 2016
Elizabeth Dippold*	Political Science	Evaluating the Effects of Food Aid on Conflict in Sub-Saharan Africa: A Disaggregate Approach	Spring 2016
Devanshi Metla***	Community and Regional Planning	Gated Communities and Urban Growth: A Case Study in Brazil	Fall 2016
Amelia Schoeneman*	Community and Regional Planning	Downtown Housing in Midwestern College Towns: Trends in Housing Demand and Social Impacts	Spring 2017
Helina Sarkodie-Minkah***	Community and Regional Planning	Poverty Suburbanization in US Metropolis: The case of Dallas Fort Worth	Spring 2017
Brandon Klein*	Community and Regional Planning	Adapting the Densify Sample Network Tool for a Site Suitability Analysis of Automatic Traffic Recorder Locations	Spring 2017
Rachana Awale*	Community and Regional Planning	Residential Property Values and Open Spaces: Comparing Des Moines, Iowa and Fort Worth, Texas	Summer 2017
Jacob Howe*	Community and Regional Planning/ Sustainable Agric.	TBD (Food pantries in Des Moines)	Spring 2018
Elisa Cárdenas*	Sociology/ Sustainable Agric. +++	Are Indigenous Women Integrated in Ecuador's Emerging Quinoa Value Chain? If so, how?	Spring 2019
Teresa Blader*	Entomology	Estimating milkweed stem density effects on monarch butterfly oviposition on gravel roadsides in Iowa utilizing GIS	Spring 2018
Daniel Pierce*	Transportation	Improving implementation of the American with Disabilities Act for DART	Spring 2018
Daniel Dvorjak***	Community and Regional Planning	Promoting Walkability: An assessment of sidewalk connectivity within the DART public transportation system	Fall 2018
Melinda Sanchez***	Community Development	Economic Integration and Refugees in Des Moines	Spring 2019
Morgan Bradley***	Community and Regional Planning/ Sustainable Agric.	Community Gardens and Social Capital in Des Moines	Fall 2018

Andrea Wagner***	Community and Regional Planning/ Sustainable Agric.	TBD	<i>Fall 2020</i>
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OBS: * Committee member

** Co-Major Professor

*** Major Professor

Graduate Students (Doctoral students outside ISU)

Doctoral Defense

HADDAD, Mônica. A.; MOURA, Ana Clara M.; ARAÚJO, Rogério Palhares Z.; GONTIJO, B.; ROCHA, Leonardo C.. Participação em banca de Bráulio Magalhães Fonseca. Conceitos e práticas do Geodesign aplicados ao Ordenamento Territorial do Município de São Gonçalo do Rio Abaixo, Região do Médio Piracicaba/MG. May 2015, PhD in Geography, Federal University of Minas Gerais.

HADDAD, Mônica. A., GONTIJO, B.; MOURA, Ana Clara M.;; ELMIRO, M. A. T.; CARVALHO, V. L. M.; MORAIS, Marcelino Santos; AZEVEDO, A. A.. Participação em banca de Rodrigo Pinheiro Ribas. Análise espacial da conectividade estrutural na paisagem: uma aplicação no mosaico de áreas protegidas do Espinhaço, Alto Jequitinhonha - Serra do Cabral. May 2015, PhD in Geography, Federal University of Minas Gerais.

HADDAD, Monica; MOURA, Ana Clara M.; MORAES, Fernanda. B.; OLIVEIRA, Francisco H.; Borges, K.V.A.. A.. Participação em banca de Sheyla Aguilar de Santana. Geoprocessamento na Modelagem Parametrizada da Paisagem Territorial: aplicações da geovisualização na simulação da paisagem urbana. March 2014, PhD in Architecture, Federal University of Minas Gerais.

Qualifying Exam

HADDAD, Monica; MOURA, Ana Clara M.; MORAES, Fernanda. B.; A.. Participação em banca de Camila Marques Zyngier. Planning Support Systems (PSS): Geovisualização no planejamento de paisagens urbanas. 2014. Exame de qualificação (Doutorando em Arquitetura) - Universidade Federal de Minas Gerais.

Mentoring at ISU

***** Kelly Naumann: A CRP undergraduate student who was at the Honor's Program. I was her advisor for her Final Project, and mentored her towards moving to graduate school.**

***** Daniela Propst: A CRP undergraduate student who took my CRP460 in the spring 2016. She demonstrated a high potential to succeed as a planner. In 2017, I nominated Miss Propst and she was awarded the prestigious Wallace E. Barron All-University Senior Award.**

***** Laurelin Haas: Haas was a CRP undergraduate student selected to participate in the Research in the Capitol event on March 29, 2016. Haas' research poster - "Site Suitability Analysis for Student**

Housing in Ames, Iowa" - used multiple spatial criteria to examine different scenarios for student housing development. Haas' poster won first place in the Iowa American Planning Association (APA) Student Poster Contest on October 20, 2016. Haas also presented her poster on April 5, 2016 at the ISU Undergraduate Research Symposium and on November 30, 2016 at the ISU Honors Poster Presentation.

*** Lauren Whetstone: A CRP undergraduate student who participated in the APA Iowa Poster Contest held at the Sioux City APA Conference in the fall of 2015. She created a poster entitled "Planning for the Future of the Sioux City Farmers' Market" where she suggested policies and plans to ensure that the Farmers' Market had a permanent location. She used GIS to map out the proposed locations and also interviewed a few key members including the Sioux City Chamber of Commerce, Farmers' Market chair members, and a local food policy group. Whetstone went on to win third place in the contest.

*** Molly Carpenter: A CRP undergraduate student who was selected to participate in the event "Research in the Capitol" on April 01, 2014, in Des Moines, IA. Carpenter's research poster—"Housing Market in College Towns: The Case of Ames, Iowa"—examined the relationship between Ames population (including students and non-students) and the housing stock. She used GIS to analyze the housing market as a whole, as well as local housing and demographic data. Molly also presented her poster on April 15, 2014, at the ISU Symposium on Undergraduate Research and Creative Expression.

Bethany Wilcoxon: A CRP undergraduate student who was selected to participate in the event "Research in the Capitol" on March 10, 2008, in Des Moines, IA. Wilcoxon's research poster—"The Corn Belt's Ethanol Plants: Do Locational Factors Matter?"—examined the locational factors for ethanol production to determine the optimal locations of ethanol plants, and then compared those locations with the actual and proposed locations of these plants.

Kelly Delmonico: A CRP undergraduate student who was selected to participate in the event "Research in the Capitol" on March 5, 2007, in Des Moines, IA. Delmonico's research poster—"Social Programs and the Needy: Is Allocation Equitable in Iowa?"—focused on three social programs in Iowa and analyzed whether each program was reaching its target population.

5 – POSITION RESPONSIBILITIES: INSTITUTIONAL SERVICES

University

College of Design Equity Adviser: January 2016 to present.

- **Fall 2017 & Spring 2018: wrote A Report on Gender & Equity for the Faculty in the College of Design**
- Spring 2016 & Fall 2016: awarded grant and Dr. Gay workshop

CRP Senator: August 2015 to May 2016.

Judiciary and Appeals Committee (Senate): August 2015 to May 2016.

Director of Certificate Studies (DOCS) for the ISU GIS Certificate: August 2003 to present.

ISU GIS Certificate Admission Committee: August 2003 to present.

ISU GIS Certificate Curriculum Committee: August 2003 to present.

CRP Senator (substituting Owusu): Spring 2009

CRP representative at the Search Committee for the Dean of the College of Design: May 2008 to May 2009.

College of Design representative at the ISU Recognition and Faculty Development Board: August 2006 to May 2007.

Collegiate

College-wide research course Ad Hoc Committee: Spring 2018

Equity Advisor, ADVANCE Representative at the search committee for the CoD Senior Associate Dean:
Spring 2017

Diversity Committee member: January 2017 to present

GIS Minor Committee member: Fall 2014 to present.

CRP representative at the GIS/GeoDesign High Impact Faculty Search Committee: Spring 2014.

CRP representative at the CoD international Program Advisory Committee: August 2013 to present.

CRP representative at the CoD Budget Advisory Committee: August 2013 to present.

CoD Budget Advisory Committee representative at the Research Extension and Outreach Council: August 2013 to May 2014.

CRP representative at the Ad Hoc Committee on College Governance Appendix: August 2013 to January 2014.

CRP representative at the College of Design Recognition and Faculty Development Board: August 2003 to May 2013.

CRP representative at the College Computer Advisory Board: August 2004 to present.

CRP representative at the Digital Media Minor group: August 2004 to December 2016.

Director Design GIS Lab: August 2003 to May 2006.

CRP representative at the Design Representation Task Force: Spring, 2004.

Departmental

Member of CRP Graduate Admission Committee: Fall 2017 to present

Member CRP Promotion and Tenure Committee: Fall 2009 to present

Member CRP Chair Review Committee: Fall 2012

Member of the Search Committee for two (2) faculty positions: Spring 2008.

Member of the research workgroup for the Planning Accreditation Board Report Missions, Goals and Objectives: August 2007 to May 2008.

Member of the Search Committee for Associate Professor/Associate Chair: Summer 2005.

Member of the Search Committee for Program Assistant 1: Fall 2003.