

# Mahbubur R. Meenar, PhD, GISP

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## EDUCATION

- 2014 PhD, Geography and Urban Studies, Temple University  
2002 MUP, Urban and Regional Planning, State University of New York at Buffalo (SUNY Buffalo)  
1997 BArch, Architecture, Bangladesh University of Engineering and Technology

## EMPLOYMENT

- 2016 – Present Assistant Professor, Department of Geography and Environment, Rowan University  
2008 – 2016 Assistant Director, Center for Sustainable Communities, Temple University  
2002 – 2016 Adjunct Professor, Department of Planning and Community Development, Temple University  
2004 – 2008 Senior GIS Design Specialist, Center for Sustainable Communities, Temple University  
2002 – 2004 Program Coordinator, Center for Sustainable Communities, Temple University  
1999 – 2002 Graduate Research Assistant, SUNY Buffalo – (i) Center for Urban Studies, (ii) Department of Urban and Regional Planning, and (iii) The Regional Institute  
2000 Planning Intern, Lee County Division of Planning, Fort Myers, FL  
1998 – 1999 Lecturer, Department of Architecture, Ahsanullah University of Science and Technology, Bangladesh  
1997 – 1998 Faculty, Interior Design Certificate Program, Exterior-Interior Pvt. Ltd., Bangladesh  
1997 – 1999 Architect, DIO Architects, Riddhi Architects, and Consulting Options Pvt. Ltd., Bangladesh

## RESEARCH GRANTS AND AWARDS

- 2015 U.S. Environmental Protection Agency, *Brownfields Area-Wide Plan*, **\$200,000**.  
2014 U.S. Environmental Protection Agency, *Visioning Green Stormwater Infrastructure Projects through a Community-Driven Geodesign Process*, **\$60,000**.  
2012 U.S. Environmental Protection Agency, *Watershed-Based Stormwater Management Plan to Improve Water Quality through Community Engagement: Ambler Area Watersheds*, **\$60,000**.  
2010 Pennsylvania Department of Environmental Protection, *Impact Assessment of Projected and Alternative Land Use Development Patterns in Pennypack Creek Watershed*, **\$50,000**.  
2010 Pennsylvania Department of Community and Economic Development, via sub-contract to Pennsylvania Green Growth Partnership, *Food Insecurity and Spatial Inequality in Lower-Income Urban Neighborhoods: Analyzing the Role of Community Gardens*, **\$40,000**.  
2010 Temple University Teaching, Learning, and Technology Roundtable, Faculty Mentor, **\$2,000**.  
2007 – 2009 Pennsylvania Department of Community and Economic Development, via sub-contract to Philadelphia University, *3D GIS Visualization: Fort Washington Office Park Revitalization Project*, **\$175,000** (two phases).  
2006 – 2009 Philabundance, Pennsylvania, *Philadelphia Community Food Access: The Need and Access to Hunger Relief Services*, **\$104,000** (five phases).  
2007 Temple University Vice President for Research and Graduate Studies, **\$38,000**.  
2007 Upper Dublin Township, Pennsylvania, *Environmental Resources Inventory*, **\$16,000**.

## RESEARCH EXPERIENCE

- 2015 – 2017 **Principal Investigator**, *Brownfields Area-Wide Plan* (\$200,000 – U.S. Environmental Protection Agency)  
2014 – 2016 **Principal Investigator**, *Visioning Green Stormwater Infrastructure Projects through a Community-Driven Geodesign Process* (\$60,000 – U.S. Environmental Protection Agency)  
2013 – 2017 Research team member, *An Integrated Strategy to Improve Green Infrastructure Approaches in Philadelphia* (\$999,995 – U.S. Environmental Protection Agency)  
2014 – 2016 Research team member, *Watershed Protection in Upstream Suburban Philadelphia Cluster* (\$1.235 million – William Penn Foundation)  
2012 – 2014 **Principal Investigator**, *Watershed-Based Stormwater Management Plan to Improve Water Quality through Community Engagement: Ambler Area Watersheds* (\$60,000 – U.S. Environmental Protection Agency)

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- 2010 – 2012 **Principal Investigator**, *Impact Assessment of Projected and Alternative Land Use Development Patterns in Pennypack Creek Watershed* (\$50,000 – Pennsylvania Department of Environmental Protection)
- 2010 – 2011 **Principal Investigator**, *Food Insecurity and Spatial Inequality in Lower-Income Urban Neighborhoods: Analyzing the Role of Community Gardens* (\$40,000 – Pennsylvania Department of Community and Economic Development)
- 2010 – 2014 Research team member, *Wissabickon Creek Watershed Study* (\$500,000 – Philadelphia Water Department, Montgomery County Community Development Block Grant, Pennsylvania Department of Environmental Protection, and participating municipalities)
- 2010 Research team member, *Sustainable 19125 Performance Measures Study* (\$20,000 – New Kensington Community Development Corporation, Philadelphia)
- 2007 – 2009 **Principal Investigator**, *3D GIS Visualization: Fort Washington Office Park Revitalization Project* (\$175,000 – Pennsylvania Department of Community and Economic Development)
- 2006 – 2009 **Principal Investigator**, *Philadelphia Community Food Access: The Need and Access to Hunger Relief Services* (\$104,000 – Philabundance, PA)
- 2008 – 2010 Research team member, *Act 167 Plan for Pennypack Creek Watershed* (\$120,000 – Philadelphia Water Department)
- 2007 – 2008 **Principal Investigator**, *Upper Dublin Environmental Resources Inventory* (\$16,000 – Upper Dublin Township, PA)
- 2006 – 2008 Research team member, *Fort Washington Area Flooding and Transportation Improvement Study* (\$420,000 – U.S. Federal Transportation Earmark through Upper Dublin Township)
- 2005 – 2012 Research team member, *Temple - Villanova Sustainable Stormwater Initiative* (\$440,000 – William Penn Foundation and \$212,220 – Pennsylvania Department of Environmental Protection)
- 2005 – 2006 Research team member, *Sandy Run and Ambler Area Watersheds Project* (\$200,000 – U.S. Federal Emergency Management Agency)
- 2003 – 2006 Research team member (Co-Chair, GIS Mapping and Data Analysis Committee), *Applying the EPA's Regional Vulnerability Assessment (ReVA) Approach to the Pennypack Creek Watershed* (\$300,000 – U.S. Environmental Protection Agency and Pennsylvania Department of Environmental Protection)
- 2002 – 2006 Research team member, *Pennypack Creek Watershed Study* (\$330,000 – William Penn Foundation, \$192,500 – U.S. Federal Emergency Management Agency, and \$100,000 – participating municipalities)
- 2003 – 2004 Research team member, *Milford Township Growth Management Plan* (\$80,000 – U.S. Department of Housing and Urban Development, through Milford Township, PA)
- 2001 – 2002 Research Assistant, *State of the Region*, The Regional Institute, SUNY Buffalo
- 2000 – 2001 Research Assistant, (i) *Buffalo Community-Based Healthy Homes Initiative*, (ii) *Bethel Village Head Start Project*, and (iii) *The Health Status of the Near East Side Black Community: A Study of Wellness and Neighborhood Conditions*, Center for Urban Studies, SUNY Buffalo

### TEACHING EXPERIENCE

#### ***Courses Taught***

Department of Geography and Environment, Rowan University

**Geovisualization** (Geog 16316). Redeveloped course curriculum in 2016. Undergraduate enrollments: 22 (2016). 3 credit hours.

**Community Planning & Site Design** (Geog 31486). Redeveloped course curriculum in 2017. Undergraduate enrollments: 22 (2017). 3 credit hours.

Department of Planning and Community Development, Temple University

**Spatial Analysis Techniques/GIS** (CRP 2524/5524). Co-developed course curriculum in 2002, made significant revision in 2010. Graduate and undergraduate enrollments: 3 (2015 summer), 14 (2014 fall), 7 (2014 summer), 23 (2013 fall), 11 (2012 summer), 20 (2010 fall), 19 (2010 summer), 24 (2009 spring), 10 (2009 summer), 15 (2008 spring), 12 (2008 summer), 24 (2007 spring), 10 (2007 summer), 20 (2006 spring), 9 (2006 summer), 25 (2005 spring), 13 (2005 summer), 26 (2004 spring), 14 (2004 summer), and 16 (2002 spring). 3 credit hours. Co-taught with A. Bari from 2002 to 2006.

**Advanced Topics and Techniques in GIS** (CRP 5525). Co-developed course curriculum in 2003, made significant revision in 2015. Graduate enrollment: 10 (2015), 6 (2010), 10 (2009), 11 (2008), 12 (2007), 10 (2006), 7 (2005), 13 (2004), and 9 (2003). 3 credit hours. Co-taught with A. Bari from 2003 to 2005.

**Urban Form and Design** (CRP 2114/8114). Developed course curriculum. Graduate and undergraduate enrollments: 18 (2013), 19 (2012), 18 (2011), 24 (2010), 19 (2009), and 9 (2008). 3 credit hours. Co-taught with S. Mysore in 2008.

**Spatial Planning with Digital Visualization** (CRP 8870). Special topic course. Developed course curriculum. Graduate enrollment: 6 (2015). 3 credit hours.

**Sustainable Community Design and Development** (CRP 3256). Updated course curriculum. Undergraduate enrollment: 12 (2014). 3 credit hours.

**Sustainable Food Systems Planning** (CRP 2252/5521). Updated course curriculum. Graduate and undergraduate enrollments: 16 (2015). 3 credit hours.

**Internet and Digital Technologies for Community Engagement** (CRP 3555/8555). Developed course curriculum. Online Course. Graduate and undergraduate enrollments: 8 (2016), 6 (2015), 6 (2014), 7 (2013), 13 (2012), 7 (2009). 3 credit hours.

Department of Urban and Regional Planning, State University of New York at Buffalo

**Environmental Design Workshop I: Urban Information and Analysis**. Graduate Assistant (Teaching).

Demonstrated GIS and LandCADD software. Instructor: K. Lucas. Undergraduate enrollment: 20 (2000). 3 credit hours.

Department of Architecture, Ahsanullah University of Science and Technology, Bangladesh

**Design Studio VII**. Co-developed course curriculum. Undergraduate enrollment: 16 (1999). 3 credit hours. Co-taught with S. Shams.

**Interior Design Studio**. Developed course curriculum. Undergraduate enrollment: 16 (1999). 3 credit hours.

**Design Studio VI**. Co-developed course curriculum. Undergraduate enrollment: 12 (1998). Co-taught with M. Malik. 3 credit hours.

**Design Theory**. Developed course curriculum. Undergraduate enrollment: 12 (1998). 3 credit hours.

Exterior Interior Pvt. Ltd., Bangladesh

**Interior Design Certificate Program**. Developed course curriculum. Student enrollment: 18 (1997 – 1998).

One year professional certificate program.

**Professional Workshops**

2008: 3-D Visualization Using ArcGIS and SketchUp. 8 participants, including students and GIS professionals.

Non-credit program, Temple University.

2008: GIS for Local Government Officials. 5 participants, including township manager, planning directors, and

IT professionals. Non-credit program, Temple University.

**Invited Course Lectures**

Fall 2014: *Philadelphia as a food system innovator*. Course: Sustainable Food Systems Planning, taught by D. Howe, Department of Planning and Community Development, Temple University.

Spring 2014: *A mixed-methods research on food justice and the role of NPOs*. Course: Research Design Methods, taught by E. McCoy, Department of Landscape Architecture and Horticulture, Temple University.

Fall 2013: *Philadelphia food systems and nonprofit organizations*. Course: Sustainable Food Systems Planning, taught by D. Howe, Department of Planning and Community Development, Temple University.

Fall 2012: *Addressing hunger and malnutrition: Key barriers to hunger relief*. Course: History of Poverty and Welfare in the U.S., taught by C. Stutman, Department of Arts and Humanities, Pennsylvania State University.

Fall 2012: *Philadelphia as a food system innovator*. Course: Sustainable Food Systems Planning, taught by D. Howe, Department of Planning and Community Development, Temple University.

Spring 2012: *3D GIS visualization using ArcScene and SketchUp*. Course: Advanced Techniques in GIS, taught by D. Manhardt, Department of Planning and Community Development, Temple University.

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- Fall 2011: *A mixed methods research on Philadelphia's community gardens*. Course: Food Systems Planning, taught by D. Howe, Department of Planning and Community Development, Temple University.
- Spring 2011: *Analysis and visualization of spatial data in GIS*. Course: Digital Media: Methodologies + Techniques, taught by R. Drummond, Department of Architecture, Temple University.
- Spring 2006: *To be or not to be ...*. Course: Sustainable Community Design and Development, taught by L. Mandarano, Department of Planning and Community Development, Temple University.
- Fall 2003: *Role of buildout scenarios in growth management plan*. Course: Planning Studio, taught by S. Loveless, Department of Planning and Community Development, Temple University.
- Spring 2003: *Scope of higher education in architecture and planning in the U.S.* Course: Undergraduate Seminar, taught by Z. Matin, Department of Architecture, Ahsanullah University of Science and Technology.
- Fall 2002: *Introduction to planning support systems*. Course: Introduction to Community and Regional Planning, taught by J. Featherstone and S. Loveless, Department of Planning and Community Development, Temple University.
- Fall 2000: *Network analysis using GIS*. Course: GIS for Planning, taught by G. Page, Department of Urban and Regional Planning, SUNY Buffalo.

### ***Design Reviews and Critiques***

- Spring 2006: Critique, *Junior Design Studio*, taught by K. Ashraf, Department of Architecture, Temple University.
- 1998 – 1999: Served as a critique in 10+ design studio jury sessions at Ahsanullah University of Science and Technology, Bangladesh.

### ***Selected Student Projects***

- 2009: GIS-based walkability study at Ambler and Upper Dublin areas. Final project of Intro GIS course (Byma, Maher, and Tsang). Third prize at the APA PA SE 2009 scholarship competition.
- 2008: Spatial analysis of food insecurity and hunger relief. Final project of Advanced GIS course (Puleo, Walters, Ennis, Park, and Jovanovski). Second prize at the APA PA SE 2008 scholarship competition.

### ***Co-Advisor (Master's Project)***

- 2009: A spatial analysis of food insecurity (Jillian Puleo)
- 2008: A GIS assessment of LEED certification potential in Fort Washington office park (Andreea Ambrus)
- 2008: A GIS-based analysis of flooding in Hatboro Borough, Pa (Straso Jovanovski)
- 2007: A GIS-based approach to spatial analysis of community food access for Philadelphia (Lan Jiang)
- 2004: Flood-prone properties of Pennypack watershed municipalities (Justin Ryan)

## **PUBLICATIONS**

### ***Dissertation***

- Meenar, M.** (2014). Food Justice in Post-Industrial U.S. Cities: The Role of Nonprofit Organizations.

### ***Double-Blind Peer-Reviewed Journal Articles***

- Meenar, M.** (2017). Using participatory and mixed-methods approaches in GIS to develop a Place-Based Food Insecurity and Vulnerability Index. *Environment & Planning A*, OnlineFirst version available at <http://journals.sagepub.com/doi/abs/10.1177/0308518X16686352>
- Meenar, M.** (2015). Nonprofit-driven community capacity building efforts in community food systems. *Journal of Agriculture, Food Systems, and Community Development*, 6(1), 77-94.
- Mandarano, L., & **Meenar, M.** (2015). E-participation: Comparing trends in practice and the classroom. *Planning Practice and Research*, 30(4), 457–475.
- Sorrentino, J., **Meenar, M.**, Wargo, D., & Lambert, A. (2014). Housing location in a Philadelphia metro watershed: Can profitable be green? *Landscape and Urban Planning*, 125, 188–206.
- Flamm, B., Sutula, K., & **Meenar, M.** (2014). Changes in access to public transportation for cycle-transit users in response to service reductions. *Transport Policy*, 35, 154–161.
- Meenar, M.**, & Hoover, B. (2012). Food security via community gardens: Understanding people, place, economy, and accessibility from food justice perspective. *Journal of Agriculture, Food Systems, and Community Development*, 3(1), 143–160.

- Mandarano, L., **Meenar, M.**, & Steins, C. (2011). Building social capital in the digital age of civic engagement. *Journal of Planning Literature* (special issue on Communicative Cities), 25(2), 123–135.
- Sorrentino, J., **Meenar, M.**, & Flamm, B. (2008). Suitable housing placement: a GIS-based approach. *Environmental Management*, 42(5), 803–820.
- Meenar, M.** (2006). Using geoinformation technology to develop a vulnerability assessment model in natural disaster-prone areas. *Daffodil International University Journal of Science and Technology*, 1(1), 25–33.

### ***Book Chapters***

- Meenar, M.** (2012). Feeding the hungry: food insecurity in lower income communities. In N. Reid, J. Gatrell, & P. Ross (Eds.), *Local Food Systems in Old Industrial Regions* (pp. 71-91). Surrey, England: Ashgate.
- Meenar, M.** (2008). GIS-based simulation and visualization of urban land use change. In L. Liu, & J. Eck (Eds.), *Artificial Crime Analysis Systems: Using Computer Simulations and Geographic Information Systems?* (pp. 50–69). Pennsylvania: Idea Publishing.

### ***Encyclopedia Entries***

- Meenar, M.** (2014). Gardening and quality of life. In A. C. Michalos (Ed.), *Encyclopedia of Quality of Life and Well-Being Research* (pp. 2396–2399). Springer, Dordrecht, Netherlands: Springer.
- Meenar, M.**, & Sorrentino, J. (2009). Dealing with 3D surface models: Raster and TIN. In H. Karimi (Ed.), *Handbook of Research on Geoinformatics* (pp. 73–81). Pennsylvania: IGI Global.
- Meenar, M.**, Sorrentino, J., & Yesmin, S. (2009). Coupling GPS and GIS. In H. Karimi (Ed.), *Handbook of Research on Geoinformatics* (pp. 277–284). Pennsylvania: IGI Global.
- Sorrentino, J., & **Meenar, M.** (2006). Poverty in the United States. In M. Odekon (Ed.), *The Encyclopedia of World Poverty* (pp. 1106–1116). California: Sage Publications.

### ***Professional Magazines***

- Meenar, M.**, Duffy, J., & Bari, A. (2006). Life on the floodplain: remapping watersheds, neighborhoods, and lives. *Planning*, 72(7), 30–33.
- Meenar, M.** (2006). Managing storm water. *ArcUser*, 9(4), 30–31.
- Meenar, M.**, & Ambrus, A. (2006). Three-dimensional models encourage public participation. *ArcUser*, 9(2), 34–37.
- Meenar, M.**, Bari, A., & Paulsen, K. (2006). Developing a watershed inventory for vulnerability assessment using ArcGIS. *ArcUser*, 9(1), 20–23.
- Spinella, S., & **Meenar, M.** (2006). Turning threats into assets: Floodplain management using GIS technology. *International Association of Emergency Managers*, 23(7), 14–6.

### ***Selected Research Reports***

- Meenar, M.** (Ed.). (2014). Flooding and stormwater management plan for Ambler area watersheds. Research report submitted to U.S. EPA, U.S. Army Corps of Engineers, Ambler Borough, Upper Dublin Township, and Whitpain Township.
- Meenar, M.** (2013). A survey of Philadelphia's farmers' market customers. Independent study.
- Meenar, M.** (2012). Impact assessment of projected and alternate land use development pattern in Pennypack creek watershed. Research report submitted to PA DEP and NOAA.
- Meenar, M.**, & Hoover, B. (2011). Food insecurity and spatial inequality in Philadelphia's lower-income neighborhoods: Analyzing the role of community gardens. Research report submitted to PA DCED.
- Meenar, M.** (2008). GIS-based environmental resources inventory. Research report submitted to Upper Dublin Township, Pennsylvania.
- Sorrentino, J., Featherstone, J., & **Meenar, M.** (2007). Applying the EPA's regional vulnerability assessment (ReVA) approach to the Pennypack creek watershed. Research report submitted to U.S. EPA.
- Meenar, M.** (Ed.). (2006). Pennypack creek watershed study. Research report submitted to FEMA and William Penn Foundation.
- Meenar, M.**, et. al. (2005). Vulnerability assessment for smaller watersheds: A GIS inventory of the Pennypack creek watershed. Technical report submitted to U.S. EPA.

## CONFERENCE PAPERS AND PRESENTATIONS

### *Peer-Reviewed Papers*

- Meenar, M.**, Featherstone, J., & Magaziner, J. (2015). Addressing flooding issues in an environmental justice community: A complicated and multi-layered case study. 51<sup>st</sup> *International Society of City and Regional Planners (ISOCARP) Congress*, Amsterdam, Netherlands.
- Meenar, M.**, Featherstone, J., & Magaziner, J. (2014). What makes implementation happen? Can we fool Mother Nature and atone for our past sins? Lessons learned from an urban revitalization plan for a flood prone office park. 50<sup>th</sup> *International Society of City and Regional Planners (ISOCARP) Congress*, Gdynia, Poland.
- Meenar, M.**, Featherstone, J., Mandarano, L., & Olszak, B. (2013). Effective community engagement tools in watershed plans: Examples from the USA. 49<sup>th</sup> *International Society of City and Regional Planners (ISOCARP) Congress*, Brisbane, Australia.
- Flamm, B., Sutula, K., & **Meenar, M.** (2013). Changes in access to public transportation for cycle-transit users in response to service reductions. *Transportation Research Board 92<sup>nd</sup> Annual Meeting*, Washington, DC.
- Meenar, M.**, Featherstone, J., Cahn, A. L., & McCabe, J. (2012). Urban agriculture in post-industrial landscape: a case for community generated urban design. 48<sup>th</sup> *International Society of City and Regional Planners (ISOCARP) Congress*, Perm, Russia.
- Meenar, M.** (2010). Feeding the hungry. *Local Food Systems in Old Industrial Region Conference* organized by the International Geographical Union's Commission on the Dynamics of Economic Spaces, Toledo, OH.

### *National/ International Conference Presentations*

- 2016: Visualizing the emotional experience of travel: an application of qualitative GIS and sketch-based content analysis. 56<sup>th</sup> *Annual Conference of the Association of Collegiate Schools of Planning*, Portland, OR (with Flamm, B. & Bonarek, L.).
- 2016: Assessment and prioritization of stormwater infrastructure scenarios in flood prone communities: a mixed-methods GIS approach. *Annual Meeting of American Association of Geographers*, San Francisco, CA.
- 2015: Placemaking via community design: planning for green stormwater infrastructure. 5<sup>th</sup> *Annual International Conference on Urban Studies & Planning*, Athens, Greece.
- 2014: An examination of nonprofit-driven community capacity building efforts in community food planning. 54<sup>th</sup> *Annual Conference of the Association of Collegiate Schools of Planning*, Philadelphia, PA.
- 2014: Inter-organizational spatial networks. *Eighth International Conference on Geographic Information Science*, Vienna, Austria.
- 2014: An exploratory examination of inter-organizational relationships and spatial networks. *Annual Meeting of American Association of Geographers*, Tampa, FL.
- 2013: Targeting food insecurity in the Philadelphia metro region. *Biennial Conference of the United States Society for Ecological Economics*, Burlington, VT (with Sorrentino, J. – presenter and Buggé, R.)
- 2012: Food insecurity and urban agriculture: a GIS-based approach. *Biennial Conference of the International Society for Ecological Economics*, Rio de Janeiro, Brazil (with Sorrentino, J. – presenter)
- 2012: Developing a GIS-based community food insecurity and vulnerability model: A social ecology perspective. *Annual Meeting of American Association of Geographers*, New York, NY.
- 2011: Housing placement in a Philadelphia suburb: profitability, sustainability or both? *Biennial Conference of the United States Society for Ecological Economics*, East Lansing, MI (with Lambert, A., Sorrentino, J. – presenter, and Wargo, D.)
- 2011: Food insecurity and spatial inequality in lower-income urban neighborhoods: analyzing the role of community gardens. *Annual Conference of Urban Affairs Association*, New Orleans, LA.
- 2010: Impact assessment of alternative land use development patterns in Pennypack creek watershed. *Annual Conference of American Water Resources Association*, Philadelphia, PA (with Fromuth, R., Featherstone, J., and Awda, M.)
- 2007: Mapping community food access. *Annual Conference of Urban and Regional Information Systems Association*, Washington, D.C.
- 2007: Rethinking the built environment in natural disaster-prone areas. *Annual Conference of Urban and Regional Information Systems Association*, Washington, D.C. (with Ambrus, A.)
- 2006: Natural and built environment GIS inventory. *Annual Conference of American Planning Association*, San Antonio, TX.

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### **Local and Regional Conferences**

- 2015: Lessons learned from a multi-disciplinary geodesign studio. *ESRI Mid-Atlantic User Conference*, Baltimore, MD.
- 2011: Remaking the city: From vacant lots to community gardens. Annual meeting of the Pennsylvania Chapter of American Planning Association, Scranton, PA (with Heckert, M., Hoover, B., & Rosan, C.).
- 2011: The edible city? Mapping community food insecurity and urban agriculture. *Annual Pennsylvania GIS Conference*, Grantville, PA (with Popek, M.).
- 2009: Philadelphia metro area hunger relief and community food access study. Poster presentation at *Pennsylvania Chapter of American Planning Association*, King of Prussia, PA (with Guie, K.).
- 2009: Retrofitting suburban office park. Poster presentation at *Build Green Conference*, Philadelphia, PA (with Getty, F.).
- 2008: 3D GIS visualization of sustainable urban area redevelopment. Poster presentation at *Pennsylvania Green Growth Partnership Forum*, Hershey, PA (with Walters, A.).
- 2007: Pennypack creek watershed study: an interdisciplinary research. *ESRI Mid-Atlantic User Group Conference*, Philadelphia, PA.
- 2007: A new criterion for designing infiltration basins. *Pennsylvania Stormwater Management Symposium*, Philadelphia, PA (with Boufadel, M., Li, H., Bobo, A., Featherstone, J., and Nalbandian, R.).
- 2007: Sustainable design with GIS. Poster presentation at *Pennsylvania Green Growth Partnership Forum*, Hershey, PA.
- 2006: Digital defense against natural disaster: can you see what you can get? *Pennsylvania Chapter of American Planning Association*, Harrisburg, PA.
- 2006: GIS for green streets and better stormwater management. *Fourteenth Annual Pennsylvania GIS Conference*, Camp Hill, PA.
- 2005: Visioning communities: the 3D GIS approach. *Geographic Information Systems for Local Government Conference*, State College, PA.
- 2002: Evaluation of land development scenarios through 3D analyses. *Intergovernmental Technology Conference*, Hershey, PA (with Featherstone, J., Granger, J., and Bari, A.).

### **ESRI International GIS Conferences, San Diego, CA**

- 2007: Working in floodplains? A sustainable office park redesign with GIS.
- 2007: Environment, GIS, and sustainability. Poster presentation.
- 2004: Growth management plan for Milford Township, PA: suitability analysis and buildout scenarios (with Bari, A. and Sherry, J.).
- 2001: Development of a GIS-based model for designing a citywide recreational bikeway network for the City of Buffalo, NY.

### **INVITED PUBLIC LECTURES**

- October 2015: *Urban agriculture and hunger relief services*. Hunger Action Summit, Temple University.
- March 2012: *Urban agriculture in ecological cities: form, landscape, community, and zoning*. Sustainability Lecture Series, Temple University.
- April 2011: *Analyzing and mapping spatial data in GIS*. Technology Day 2011, Temple University.
- July 2009: *Applications of GIS in environmental planning research*. Temple University Summer Academy.
- January 2008: *An inside look at major GIS projects at Temple CSC*. MUSA Brownbag Series, University of Pennsylvania School of Design.
- November 2005: *Planning/ GIS as a career choice*. Lansdale Catholic High School, PA.
- April 2005: *Planning/ GIS as a career choice*. Sandy Run Middle School, PA.
- March 2005: *Introduction to GIS*. W.B.Saul High School, PA.
- August 2004: *GIS in environmental decision making*. Watershed Facilitators Institute. Temple University.
- November 2003: *Introduction to GIS*. Upper Dublin High School, PA.

### **EVENT ORGANIZATION**

- 2015: Key Organizer. Community design charrette for 6<sup>th</sup> and Diamond vacant lot improvement. Community partner: Asociación Puertorriqueños en Marcha, Philadelphia. Total number of attendees: 30.

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- 2015: Key Organizer. Community design charrette for Memphis St Academy schoolyard improvement. Community partner: New Kensington Community Development Corporation, Philadelphia. Total number of attendees: 35.
- 2015: Key Organizer. Community design charrette for Hostos Charter School improvement. Community partner: Tookany/Tacony-Frankford Watershed Partnership, Philadelphia. Total number of attendees: 25.
- 2012: Key Organizer. Open public forum to discuss flooding issues. Community partners: Borough of Ambler, Upper Dublin Township, and Whitpain Township, PA. Total number of attendees: 110.

### SERVICES

- 2013 – Present Moderator, *American Planning Association* Facebook page APA Technology.
- 2013 – 2016 Member, Environmental Advisory Committee, Montgomery Township, PA.
- 2013 Design services provided to Urban Tree Connection, Philadelphia.
- 2013 Manuscript reviewer, *Social Science Computer Review*.
- 2012 – Present Member, Editorial Committee, *Journal of Agriculture, Food Systems, and Community Development*.
- 2011 – Present Member, Stakeholder Committee, Regional Food System Planning, Delaware Valley Regional Planning Commission.
- 2011 Manuscript reviewer, *Local Food Systems in Old Industrial Regions: Concepts, Spatial Context, and Local Practices*, by Reid, N., Gatrell, J. and Ross, P. (eds.). Surrey, U.K.: Ashgate Publishing. Reviewed a chapter.
- 2010 – 2011 Faculty Mentor, Teaching, Learning, and Technology Roundtable-2, Temple University. Mentees: Dr. J. Sorrentino, Dr. E. Malm, and Dr. B. Flamm.
- 2010 – 2011 Curriculum reviewer, *The Green Food and Farm Workforce Training Program* by Green link Philadelphia. Reviewed two courses.
- 2009 Manuscript reviewer, *Handbook of Research on Geoinformatics*, by Karimi, H. (ed.). Pennsylvania: IGI Global. Reviewed two chapters.
- 2008 Manuscript reviewer, *Artificial Crime Analysis Systems: Using Computer Simulations and Geographic Information Systems*, by Liu, L. and Eck., J. (eds.) Pennsylvania: Idea Publishing. Reviewed two chapters.
- 2007 – 2013 Voting Member, Ambler Campus Sustainability Council, Temple University.
- 2006 – 2010 Website Designer, Ambler Campus Sustainability Council, Temple University.
- 2004 – 2009 Team Leader, EarthFest Exhibitors for Center for Sustainable Communities, Community and Regional Planning, and Ambler Campus Sustainability Council.

### PROFESSIONAL CERTIFICATION

GISP (GIS Professional) from the GISCI, Park Ridge, IL, Certificate number: 90324