

## Mahbubur R. Meenar

Assistant Professor, Department of Geography, Planning, and Sustainability, Rowan University

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### Education:

- Ph.D. Geography and Urban Studies, Temple University, Philadelphia, PA  
Dissertation Title: “*Food Justice in Post-Industrial US Cities: The Role of Nonprofit Organizations*”
- M.U.P. Urban and Regional Planning, University at Buffalo, Buffalo, NY
- B.Arch. Architecture, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

### Academic Appointments:

- 2016 – Assistant Professor, Geography, Planning, and Sustainability Department, Rowan University
- 2002 – 2016 Adjunct Faculty, Planning and Community Development Department, Temple University, PA
- 1998 – 1999 Adjunct Lecturer, Architecture Department, Ahsanullah University of Science and Technology, Bangladesh
- 1997 – 1998 Lecturer, Interior Design Certificate Program, Exterior-Interior Pvt. Ltd., Bangladesh

### Current Research Grants and Contracts:

- 2017 – 2019 Brownfields Area-Wide Plan for Philadelphia’s Lower North Delaware Industrial District  
US EPA Brownfields Area-Wide Planning Program #96351701  
Role: Lead Principal Investigator  
Award Amount: \$174,699  
Location of Project: Rowan University
- 2017 – 2018 Equitable Distribution of Green Stormwater Infrastructure Projects in Philadelphia  
US EPA Science to Achieve Results (STAR) Program through a sub-award from Temple University; Lead-PI Toran, Temple University, \$995,995  
Role: Principal Investigator (for the sub-award)  
Sub-award Amount: \$41,020  
Location of Project: Rowan University
- 2018 – 2019 Geo-spatial Planning and Design for Camden County's Green Infrastructure  
Contract with Camden County Municipal Utilities Authority  
Role: Lead Principal Investigator  
Award Amount: \$53,175  
Location of Project: Rowan University
- 2018 Watershed Storytelling: Experiential Tools for Connecting People, Place and Water  
Contract with New Jersey Council for the Humanities; Lead-PI Kitson  
Role: Principal Investigator  
Award Amount: \$5,000  
Location of Project: Rowan University
- 2018 – 2019 Listen. Record. Play. Equitable Placemaking and Environmental Park Design in Camden through Audio Storytelling; Lead-PI Kitson  
Rowan Research Experience for Diversity and Inclusion (REDI) grant  
Role: Co-Principal Investigator  
Award Amount: \$5,000  
Location of Project: Rowan University

**Completed Research Grants and Contracts (selected):**

- 2017 – 2018 Using Immersive and Multi-Sensory Virtual Reality in Participatory Planning  
Rowan University SEED Grant  
Role: Lead Principal Investigator  
Award Amount: \$10,000  
Location of Project: Rowan University
- 2017 – 2018 New Jersey Municipal Asset Profiler (NJMAP) and Watershed Explorer  
Contracts with Geraldine R. Dodge Foundation and Kirby Foundation; Lead-PI Hasse  
Role: Investigator  
Award Amount: \$82,000  
Location of Project: Rowan University
- 2017 The Montessori School Stormwater Management and Landscape Master Plan  
Contract with The Montessori School through a sub-award from Partnership for the Delaware Estuary and PA DEP's Growing Greener Program  
Role: Lead Principal Investigator  
Award Amount: \$14,000  
Location of Project: Rowan University
- 2015 – 2016 Brownfields Area-Wide Plan for Philadelphia's Lower North Delaware Industrial District  
US EPA Brownfields Area-Wide Planning Program  
Role: Lead Principal Investigator  
Award Amount: \$25,301  
Location of Project: Temple University
- 2014 – 2016 Visioning Green Stormwater Infrastructure Projects through a Community-Driven Geodesign Process  
US EPA Urban Waters Small Grant  
Role: Lead Principal Investigator  
Award Amount: \$60,000  
Location of Project: Temple University
- 2012 – 2014 Watershed-Based Stormwater Management Plan to Improve Water Quality through Community Engagement: Ambler Area Watersheds  
US EPA Urban Waters Small Grant  
Role: Lead Principal Investigator  
Award Amount: \$60,000  
Location of Project: Temple University
- 2010 – 2012 Impact Assessment of Projected and Alternative Land Use Development Patterns in Pennypack Creek Watershed  
PA DEP Coastal Zone Management Program  
Role: Lead Principal Investigator  
Award Amount: \$50,000  
Location of Project: Temple University
- 2010 Food Insecurity and Spatial Inequality in Lower-Income Urban Neighborhoods: Analyzing the Role of Community Gardens  
PA DCED through a sub-award from Pennsylvania Green Growth Partnership  
Role: Lead Principal Investigator  
Award Amount: \$40,000  
Location of Project: Temple University

- 2007 – 2009 3D GIS Visualization: Fort Washington Office Park Revitalization Project  
PA DCED through a sub-award from Pennsylvania Green Growth Partnership  
Role: Lead Principal Investigator  
Award Amount: \$175,000 (two phases)  
Location of Project: Temple University
- 2006 – 2009 Philadelphia Community Food Access: The Need and Access to Hunger Relief Services  
Contract with Philabundance, PA  
Role: Lead Principal Investigator  
Award Amount: \$104,000 (five phases)  
Location of Project: Temple University
- 2007 Environmental Resources Inventory of Upper Dublin Township, PA  
Contract with Upper Dublin Township, PA  
Role: Lead Principal Investigator  
Award Amount: \$16,000  
Location of Project: Temple University

#### Referred Journal Articles:

1. **Meenar, M.**, Fromuth, R., & Soro, M. (2018). Planning for watershed-wide flood-mitigation and stormwater management using an environmental justice framework . *Environmental Practice.*, 20(2-3), 55-67.
2. **Meenar, M.** (2017). Using participatory and mixed-methods approaches in GIS to develop a Place-Based Food Insecurity and Vulnerability Index. *Environment & Planning A*, 49(5), 1181–1205.
3. **Meenar, M.**, Morales, A., & Bonarek, L. (2017). Regulatory practices of organized urban agriculture: connection to planning and policy. *Journal of American Planning Association*, 83(4), 389-403.
4. **Meenar, M.** (2017). Assessing the spatial connection between urban agriculture and equity. *Built Environment* (special issue on Planning for Equitable Urban and Regional Food Systems), 43(3), 364–375.
5. Mandarano, L. & **Meenar, M.** (2017). Equitable distribution of green stormwater infrastructure: a capacity-based framework for implementation in disadvantaged communities. *Local Environment*, 22(11), 1338-1357.
6. **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.
7. Mandarano, L., & **Meenar, M.** (2015). E-participation: Comparing trends in practice and the classroom. *Planning Practice and Research*, 30(4), 457–475.
8. 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.
9. 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.
10. **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.
11. 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.
12. Sorrentino, J., **Meenar, M.**, & Flamm, B. (2008). Suitable housing placement: a GIS-based approach. *Environmental Management*, 42(5), 803–820.
13. **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 and Encyclopedia Entries:

1. **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.

2. **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.
3. **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.
4. **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.
5. **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.
6. 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 Magazine Articles:

1. **Meenar, M.,** Duffy, J., & Bari, A. (2006). Life on the floodplain: remapping watersheds, neighborhoods, and lives. *Planning*, 72(7), 30–33.
2. **Meenar, M.** (2006). Managing storm water. *ArcUser*, 9(4), 30–31.
3. **Meenar, M.,** & Ambrus, A. (2006). Three-dimensional models encourage public participation. *ArcUser*, 9(2), 34–37.
4. **Meenar, M.,** Bari, A., & Paulsen, K. (2006). Developing a watershed inventory for vulnerability assessment using ArcGIS. *ArcUser*, 9(1), 20–23.
5. 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 or Technical Reports:

1. **Meenar, M.,** Harris, S., & Gladfelter, R. (2017). The Montessori School Stormwater Management and Landscape Master Plan, Technical report submitted to The Montessori School and the Partnership for Delaware Estuary.
2. **Meenar, M.** (2017). Planning for Green Stormwater Infrastructure using Community-Driven Geodesign Process, Research report submitted to U.S. EPA.
3. **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.
4. **Meenar, M.** (2013). A survey of Philadelphia’s farmers’ market customers. Independent study.
5. **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.
6. **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.
7. **Meenar, M.** (2008). GIS-based environmental resources inventory. Research report submitted to Upper Dublin Township, Pennsylvania.
8. 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.
9. **Meenar, M.** (Ed.). (2006). Pennypack creek watershed study. Research report submitted to FEMA and William Penn Foundation.
10. **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: (underlined names indicate student author)

##### Peer-Reviewed Conference Papers

1. **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.

2. **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.
3. **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.
4. 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.
5. **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.
6. **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

7. 2018: Planning and designing green stormwater infrastructure to address climate change: Lessons learned from Philadelphia. *World Congress Climate Change Impacts and Responses*, Rome, Italy.
8. 2018: Spatial connection between green stormwater infrastructure and equity. *Annual Meeting of American Association of Geographers*, New Orleans, LA (with Mandarano, L.)
9. 2017: Participatory planning and design process for brownfields redevelopment. *57<sup>th</sup> Annual Conference of the Association of Collegiate Schools of Planning*, Denver, CO (with Howell, J.).
10. 2017: Understanding human emotion and perception in Brownfields redevelopment process: use of photovoice and qualitative geovisualization. *Annual Meeting of American Association of Geographers*, Boston, MA.
11. 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.).
12. 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.
13. 2015: Placemaking via community design: planning for green stormwater infrastructure. *5<sup>th</sup> Annual International Conference on Urban Studies & Planning*, Athens, Greece.
14. 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.
15. 2014: Inter-organizational spatial networks. *Eighth International Conference on Geographic Information Science*, Vienna, Austria.
16. 2014: An exploratory examination of inter-organizational relationships and spatial networks. *Annual Meeting of American Association of Geographers*, Tampa, FL.
17. 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.)
18. 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)
19. 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.
20. 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.)
21. 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.
22. 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.)

23. 2007: Mapping community food access. *Annual Conference of Urban and Regional Information Systems Association*, Washington, D.C.
24. 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.](#))
25. 2006: Natural and built environment GIS inventory. *Annual Conference of American Planning Association*, San Antonio, TX.

#### Local and Regional Conferences and Events

26. 2018: Brownfields Revitalization & Environmental Justice for All. *PA Brownfields Conference*, Bethlehem, PA (with A. Goodman).
27. 2018: Using Immersive Virtual Reality in Participatory Spatial Planning. *Rowan University Faculty Research Day*, Glassboro, NJ.
28. 2017: Engaging Your Community in Green Stormwater Planning. *The Watershed Congress along the Schuylkill River*, Pottstown, PA (with Vassalotti, V., Harris, S., & Baumgarten, D.).
29. 2015: Lessons learned from a multi-disciplinary geodesign studio. *ESRI Mid-Atlantic User Conference*, Baltimore, MD.
30. 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.).
31. 2011: The edible city? Mapping community food insecurity and urban agriculture. *Annual Pennsylvania GIS Conference*, Grantville, PA (with [Popek, M.](#)).
32. 2009: Philadelphia metro area hunger relief and community food access study. Poster presentation. *Annual meeting of the Pennsylvania Chapter of American Planning Association*, King of Prussia, PA (with [Guie, K.](#)).
33. 2009: Retrofitting suburban office park. Poster presentation at *Build Green Conference*, Philadelphia, PA (with [Getty, F.](#)).
34. 2008: 3D GIS visualization of sustainable urban area redevelopment. Poster presentation at *Pennsylvania Green Growth Partnership Forum*, Hershey, PA (with [Walters, A.](#)).
35. 2007: Pennypack creek watershed study: an interdisciplinary research. *ESRI Mid-Atlantic User Group Conference*, Philadelphia, PA.
36. 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.).
37. 2007: Sustainable design with GIS. Poster presentation at *Pennsylvania Green Growth Partnership Forum*, Hershey, PA.
38. 2006: Digital defense against natural disaster: can you see what you can get? *Pennsylvania Chapter of American Planning Association*, Harrisburg, PA.
39. 2006: GIS for green streets and better stormwater management. *Fourteenth Annual Pennsylvania GIS Conference*, Camp Hill, PA.
40. 2005: Visioning communities: the 3D GIS approach. *Geographic Information Systems for Local Government Conference*, State College, PA.
41. 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 User Conferences, San Diego, CA

42. 2007: Working in floodplains? A sustainable office park redesign with GIS.
43. 2007: Environment, GIS, and sustainability. Poster presentation.
44. 2004: Growth management plan for Milford Township, PA: suitability analysis and buildout scenarios (with Bari, A. and [Sherry, J.](#)).
45. 2001: Development of a GIS-based model for designing a citywide recreational bikeway network for the City of Buffalo, NY.

## **Courses Taught:**

### Department of Geography, Planning, and Sustainability, Rowan University

1. **Community Planning & Site Design** (PLAN 31486). Redeveloped course curriculum in 2017. Undergraduate enrollment: 22 (2018); 23 (2017). 3 credit hours.
2. **Community and Environmental Planning** (PLAN 31389). Redeveloped course curriculum in 2018. Undergraduate enrollment: 25 (2018). 3 credit hours.
3. **Geovisualization** (GEOG 16316). Redeveloped course curriculum in 2016. Undergraduate enrollment: 21 (2017); 22 (2016). 3 credit hours.
4. **Introduction to Mapping and Geographic Information Science** (GEOG 16160). Undergraduate enrollment: 22 (2017). 3 credit hours.
5. **Senior Seminar** (GEOG 16490). Undergraduate enrollment: 14 (2018). 3 credit hours.

### Department of Planning and Community Development, Temple University

6. **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.
7. **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.
8. **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.
9. **Spatial Planning with Digital Visualization** (CRP 8870). Special topic course. Developed course curriculum. Graduate enrollment: 6 (2015). 3 credit hours.
10. **Sustainable Community Design and Development** (CRP 3256). Updated course curriculum. Undergraduate enrollment: 12 (2014). 3 credit hours.
11. **Sustainable Food Systems Planning** (CRP 2252/5521). Updated course curriculum. Graduate and undergraduate enrollments: 16 (2015). 3 credit hours.
12. **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.

### Department of Urban and Regional Planning, University at Buffalo

13. **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

14. **Design Studio VI**. Co-developed course curriculum. Undergraduate enrollment: 12 (1998). Co-taught with M. Malik. 3 credit hours.
15. **Design Studio VII**. Co-developed course curriculum. Undergraduate enrollment: 16 (1999). 3 credit hours. Co-taught with S. Shams.
16. **Design Theory**. Developed course curriculum. Undergraduate enrollment: 12 (1998). 3 credit hours.
17. **Interior Design Studio**. Developed course curriculum. Undergraduate enrollment: 16 (1999). 3 credit hours.

## **Professional Certificates and Workshops Taught:**

1. **GIS and Geo-Visualization in Transportation Planning**. Developed workshop curriculum. Enrollment: 25 (2018), 14 (2017). National Summer Transportation Institute program in New Jersey

(NJSTI), organized by The Center for Research and Education in Advanced Transportation Engineering Systems (CREATES), Rowan University.

2. **3-D Visualization Using ArcGIS and SketchUp.** Developed workshop curriculum. Enrollment: 8 (2008). Non-credit program, Temple University.
3. **GIS for Local Government Officials.** Developed workshop curriculum. Enrollment: 5 (2008). Non-credit program, Temple University.
4. **Interior Design Certificate Program.** Developed course curriculum. Student enrollment: 18 (1997 – 1998). One year professional certificate program, Exterior Interior Pvt. Ltd., Bangladesh.

#### **Invited Course Lectures:**

1. Spring 2018: *Research design and dissertation preparation.* Course: Research Design, taught by J. Stahler, Department of Geography and Urban Studies, Temple University.
2. Fall 2016: *Brownfields redevelopment.* Course: Graduate Design Studio, taught by M. Myers, Department of Landscape Architecture & Horticulture, Temple University.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Spring 2011: *Analysis and visualization of spatial data in GIS.* Course: Digital Media: Methodologies + Techniques, taught by R. Drummond, Department of Architecture, Temple University.
11. 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.
12. 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.
13. 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.
14. 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.
15. Fall 2000: *Network analysis using GIS.* Course: GIS for Planning, taught by G. Page, Department of Urban and Regional Planning, University at Buffalo.

#### **Invited Public Lectures:**

1. October 2015: *Urban agriculture and hunger relief services.* Hunger Action Summit, Temple University.
2. March 2012: *Urban agriculture in ecological cities: form, landscape, community, and zoning.* Sustainability Lecture Series, Temple University.
3. April 2011: *Analyzing and mapping spatial data in GIS.* Technology Day 2011, Temple University.
4. July 2009: *Applications of GIS in environmental planning research.* Temple University Summer Academy.
5. January 2008: *An inside look at major GIS projects at Temple CSC.* MUSA Brownbag Series, University of Pennsylvania School of Design.
6. November 2005: *Planning/ GIS as a career choice.* Lansdale Catholic High School, PA.
7. April 2005: *Planning/ GIS as a career choice.* Sandy Run Middle School, PA.



8. March 2005: *Introduction to GIS*. W.B.Saul High School, PA.
9. August 2004: *GIS in environmental decision making*. Watershed Facilitators Institute. Temple University.
10. November 2003: *Introduction to GIS*. Upper Dublin High School, PA.

#### Design Reviews and Critiques:

1. Fall 2016: Critique, *Graduate Design Studio*, taught by M. Myers, Department of Landscape Architecture & Horticulture, Temple University.
2. Spring 2006: Critique, *Junior Design Studio*, taught by K. Ashraf, Department of Architecture, Temple University.
3. 1998 – 1999: Served as a critique in 10+ design studio jury sessions at Ahsanullah University of Science and Technology, Bangladesh.

#### Graduate Student Supervision:

Student Name	Training Period	Program/University	Type of Work	Role	Current Status
Samain Sabrin	2018	Civil and Environmental Engineering/Rowan University	Research	Supervisor	Student
Sanjana Ahmed	2016 – 2017	Architecture and the Built Environment/Delft University of Technology	Post-Master's Thesis	External Advisor	Graduated in 2017
Tanner Adamson	2015 – 2016	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2016
Leonard Bonarek	2015 – 2016	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2016
Jason Hachadorian	2014 – 2015	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2015
Brandon Hoover	2010	Geography and Urban Studies/Temple University	Research	Supervisor	Graduated in 2011
Jillian Puleo	2009	Community and Regional Planning/Temple University	Master's Project	Co-Advisor	Graduated in 2009
Suneeth Varghese	2009	Computer Engineering/Temple University	Research	Supervisor	Graduated in 2010
Sujin Park	2008 – 2009	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2009
Andreea Ambrus	2006 – 2008	Community and Regional Planning/Temple University	Research and Master's Project	Supervisor and Co-Advisor	Graduated in 2008
Straso Jovanovski	2006 – 2008	Community and Regional Planning/Temple University	Research and Master's Project	Supervisor and Co-Advisor	Graduated in 2008
Alice Walters	2007 – 2008	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2008
Lan Jiang	2006 – 2007	Community and Regional Planning/Temple University	Research and Master's Project	Supervisor and Co-Advisor	Graduated in 2007
Dennis Dalbey	2005 – 2006	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2006
Griselle Rodriguez-Herrera	2004 – 2005	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2005
Jesse Sherry	2004 – 2005	Community and Regional Planning/Temple University	Research	Supervisor	Graduated in 2005

Justin Ryan	2004	Community and Regional Planning/Temple University	Master's Project	Co-Advisor	Graduated in 2004
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#### Undergraduate Student Supervision:

Student Name	Training Period	Program/University	Student	Role	Current Status
Giavanni Rizzo	2018 –	Community and Environmental Planning/ Environmental Studies/Rowan University	Research Assistant	Supervisor	Student
Marie DiLeonardo	2018	Spanish and Subject Matter Education K12/Rowan University	Research Assistant	Supervisor	Graduated in 2018
Joseph Foti	2017 –	Disaster Management/Rowan University	Research Assistant	Supervisor	Student
Kira Rose	2018	Civil and Environmental Engineering/Rowan University	Research Assistant	Supervisor	Student
Cassie Shugart	2016 – 2018	Community and Environmental Planning, Geography/Rowan University	Research Assistant	Supervisor	Graduated in 2018
Robert Kearney	2017	Geography, Community and Environmental Planning, GIS/Rowan University	Research Assistant	Supervisor	Graduated in 2017
Amy Mann	2017	English/Rowan University	Research Assistant	Supervisor	Student
Donald Morrison	2017	GIS/Rowan University	Research Assistant	Supervisor	Graduated in 2018
Herivin Simmasalam	2017	GIS/Rowan University	Intern - GeoClinic	Supervisor	Graduated in 2018
Shane Walsh	2017	Geography, Community and Environmental Planning, GIS/Rowan University	Research Assistant	Supervisor	Graduated in 2018
Noah Berkowitz	2016 – 2017	GIS, Community and Environmental Planning/Rowan University	Research Assistant	Supervisor	Graduated in 2017
Matthew Bettin	2016 – 2017	Environmental Studies, Biology, GIS/Rowan University	Research Assistant	Supervisor	Graduated in 2017
Samantha Dimeglio	2016 – 2017	Environmental Studies, Community and Environmental Planning, GIS/Rowan University	Research Assistant	Supervisor	Graduated in 2017
Daniel Bramhall	2015	Landscape Architecture/Temple University	Research Assistant	Supervisor	Graduated in 2015
Mike Levitt	2015 – 2016	Community Development/Temple University	Research Assistant	Supervisor	Graduated in 2016
Christine Thomas	2014	Community Development/Temple University	Research Assistant	Supervisor	Graduated in 2015
Jason Flax	2009	Architecture/Temple University	Research Assistant	Supervisor	Graduated in 2009

#### Selected Student Projects:

1. **GIS-based walkability study at Ambler and Upper Dublin areas.** 2009. Final project of Intro GIS course, Temple University, by Byma, Maher, and Tsang. Awarded third prize at the American Planning Association PA southeast chapter 2009 scholarship competition.

2. **Spatial analysis of food insecurity and hunger relief.** 2008. Final project of Advanced GIS course, Temple University, by Puleo, Walters, Ennis, Park, and Jovanovski. Awarded second prize at the American Planning Association PA southeast chapter 2008 scholarship competition.

**Services:**

Rowan University

- 2018 Member, Rowan University Sustainability Master Plan Committee
- 2018 Co-organizer, External consultant visit, MS in Urban and Regional Planning program proposal, Geography, Planning, and Sustainability Dept.
- 2018 Search Committee Member, Lecturer position (n=3), Geography, Planning, and Sustainability Dept.
- 2018 Proposal reviewer, SEED grant
- 2018 Proposal reviewer, Program for Inclusive Pedagogy and Educational Reform (PIPER) grant
- 2018 Proposal reviewer, Research Experience for Diversity and Inclusion (REDI) grant
- 2017 – Member, Rowan University Autism Task Force and its “Research” sub-group
- 2017 Primary sponsor, MS in Urban and Regional Planning program proposal, Geography, Planning, and Sustainability Dept.
- 2017 Primary sponsor, new course proposals, Geography, Planning, and Sustainability Dept.
1. Introduction to Planning: Past, Present, and Future (PLAN 31580)
  2. Research Methods in Planning (PLAN 31590)
  3. Planning Communication (PLAN 31593)
  4. Fundamentals of Geographic Information Systems (GEOG 31660)
  5. Environmental and Sustainability Planning (PLAN 31589)
  6. Planning Practice, Law, and Ethics (PLAN 31685)
  7. Community Planning and Site Design (PLAN 31686)
  8. Planning Studio (PLAN 31695)
  9. Geovisualization (GEOG 16661)
- 2017 Author, guidelines and requirements for AICP accreditation of the BS in Community and Environmental Planning program, Geography, Planning, and Sustainability Dept.
- 2016 – 2017 Participant, Junior Faculty Learning Community
- 2016 Co-sponsor, new course proposals, Geography, Planning, and Sustainability Dept.
1. Graduate Seminar in Food Systems Planning (Primary sponsor: Dr. Hasse) (PLAN 31587)
  2. Food Systems Planning (Primary sponsor: Dr. Hasse) (PLAN 31387)
- 2016 Author, white paper proposing a new graduate program in Urban and Regional Planning

Wider Community

- 2018 Co-organizer and lead facilitator, community design workshop for Town Center, Glassboro, NJ. Total number of attendees: 40.
- 2017 – Member, Glassboro Arts Advisory Committee (former Creative Glassboro), Glassboro, NJ
- 2017 – Participant, Association of Collegiate Schools of Planning (ACSP) Junior Faculty Mentorship Program. (Mentor: Dr. Kathe Newman, Rutgers University)
- 2018 Organizer, community listening and visioning meeting, Glassboro Arts and Entertainment District planning process, Glassboro, NJ. Total number of attendees: 40.
- 2018 Organizer, community design charrette for North of Lehigh neighborhood, Philadelphia. Total number of attendees: 50.
- 2017 Organizer, day-long event at Rowan Glassboro Campus, Rowan Technology Park, Rowan Boulevard, and Edelman Fossil Park. Participants included 15 architecture students and faculty visiting from the SJB School of Architecture and Planning, Bangalore, India, and faculty and students from Rowan Geography, Planning, and Sustainability Dept.
- 2017 Organizer, walking tour of the North of Lehigh neighborhood in Philadelphia. Community partner: New Kensington CDC, Philadelphia. Total number of participants: 19.
- 2015 – Co-moderator, American Planning Association’s Facebook page “APA Technology”.
- 2012 – Member, Editorial Committee, *Journal of Agriculture, Food Systems, and Community Development*.

- 2013 – 2016 Member, Environmental Advisory Committee, Montgomery Township, PA.
- 2016 Organizer, community design charrette for Montessori School, Dresher, PA. Total number of attendees: 50.
- 2015 Organizer, community design charrette for Philadelphia's 6<sup>th</sup> and Diamond vacant lot improvement. Community partner: Asociación Puertorriqueños en Marcha, Philadelphia. Total number of attendees: 30.
- 2015 Organizer, community design charrette for Philadelphia's Memphis St Academy schoolyard improvement. Community partner: New Kensington CDC, Philadelphia. Total number of attendees: 35.
- 2015 Organizer, community design charrette for Philadelphia's Hostos Charter School improvement. Community partner: Tookany/Tacony-Frankford Watershed Partnership, Philadelphia. Total number of attendees: 25.
- 2011 – 2015 Member, Stakeholder Committee, Regional Food System Planning, Delaware Valley Regional Planning Commission.
- 2013 Pro bono design service provided to Urban Tree Connection, Philadelphia. Conceptual master plan of an urban farm.
- 2007 – 2013 Voting Member, Ambler Campus Sustainability Council, Temple University.
- 2012 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.
- 2006 – 2010 Pro bono website design service provided to 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, Temple University.

#### Journal Reviews

- Journal of Agriculture, Food Systems, and Community Development* (2012, 2013x2, 2015, 2016, 2017, 2018)
- Social Science Computer Review* (2013)

#### Book Chapter Reviews

- 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. (2011). Reviewed one chapter.
- Handbook of Research on Geoinformatics*, by Karimi, H. (ed.). Pennsylvania: IGI Global. (2009). Reviewed two chapters.
- Artificial Crime Analysis Systems: Using Computer Simulations and Geographic Information Systems*, by Liu, L. and Eck., J. (eds.) Pennsylvania: Idea Publishing. (2008). Reviewed two chapters.

#### Grant Proposal Review

- 2017 Member, Sustainable Jersey's Blue Ribbon Selection Committee for municipal 2017 Small Grants Program, funded by Public Service Enterprise Group (PSEG). Reviewed 21 proposals.

#### Curriculum Review

- 2010 – 2011 The Green Food and Farm Workforce Training Program by Green link Philadelphia. Reviewed two courses.

#### Professional Affiliations and Memberships

- 2017 – American Planning Association (APA) New Jersey Chapter
- 2014 – Association of Collegiate Schools of Planning (ACSP)
- 2008 – American Association of Geographers (AAG)

#### **Honors and Awards:**

- 2017 – 2019 Faculty Fellow, "Cultivating the Environmental Humanities" program, Rowan University, sponsored by National Endowment of Humanities (Drs. Howell and Crowley, co-Directors)
- 2017 The Assistant Professor and Instructor Travel Grant, \$1,500, Rowan University

- 2010 Faculty mentor, Teaching, Learning, and Technology Roundtable, \$2,000, Temple University (Mentees: Drs. Flamm, Malm, and Sorrentino)
- 2007 Research award, Vice President for Research and Graduate Studies, \$38,000, Temple University
- 2001 Academic Excellence Award, School of Architecture and Planning, University at Buffalo
- 2001 Service Award, Department of Urban and Regional Planning, University at Buffalo
- 2000 Dean's Award, School of Architecture and Planning, University at Buffalo
- 2001 Student Scholarship, Environmental Science Research Institute (ESRI)
- 1999 International Travel Grant, University Grant Commission, Bangladesh

**Prior Research Positions:**

- 2008 – 2016 Assistant Director, GIS Operations and Research, Center for Sustainable Communities, Temple University, PA
- 2004 – 2008 Senior GIS Design Specialist, Center for Sustainable Communities, Temple University, PA
- 1999 – 2002 Graduate Research Assistant, University at Buffalo, NY – (i) Center for Urban Studies, (ii) Department of Urban and Regional Planning, and (iii) The Regional Institute

**Other Relevant Experience:**

- 2002 – 2004 Program Coordinator, Temple University, PA
- 2000 Planning Intern, Lee County Division of Planning, Fort Myers, FL
- 1997 – 1999 Architect, DIO Architects and Consulting Options Pvt. Ltd., Bangladesh

**Professional Certification:**

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