

## David L. Tulloch, Ph.D.

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**Director, SEBS General Honors Program**  
**Associate Director, Grant F. Walton Center**  
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### **Overview**

Rutgers faculty since 1997; Tenured faculty since 2003, 35 peer reviewed papers, 28 reports, 9 book chapters

Director, General Honors Program, Rutgers School of Environmental and Biological Sciences, 2021-present

Professional leadership through UCGIS, and LAAB; State leadership through NJ Geospatial Forum Executive Committee

Education: Ph.D. in Land Resources, University of Wisconsin-Madison, May 1997; M.L.A., Louisiana State University, May 1994; B.S.L.A., University of Kentucky, May 1992

Inaugural Chair, Diversity, Communication and Philanthropy Committee, School of Environmental and Biological Sciences, 2016-2020

Acting Graduate Program Director, Rutgers Landscape Architecture. 2013

Undergraduate Program Director, Rutgers Environmental Planning and Design (including Landscape Architecture program). 2002-2011

Landscape Architecture Accreditation Board Visiting Review Committee Leader, 10 visits . 2007-present

Board of Trustees for the Universities Consortium for Geographic Information Science ([www.ucgis.org](http://www.ucgis.org)) 2004-2007

\$9.2 million externally funded research from NIH, RWJF, USDA, FGDC, NJ DEP, US Forest Service and others

## Refereed Papers

1. Gomez Samper, A., G. E. Herrera-Almario, D. Tulloch, D. Blanco, L. Lucia Cardoso, R. E. Nunez Roacha, R. Thayagrajan, V. Gracias, and J. Hanna, 2022. A Granular Analysis of Service Delivery for Surgical System Strengthening: Application of the Lancet Indicators for Policy Development in Colombia, *Lancet Regional Health - Americas*, (<https://doi.org/10.1016/j.lana.2022.100217>), 10 (June): 100217-100230.
2. Schoolman, E., D. Tulloch, and F. Halprin, 2022, Are direct markets for local food an example of environmental justice? Access to sustainable, locally-grown produce at farmers markets in New Jersey, *Local Environment* .(Accepted pending revisions)
3. Acciai, F., DeWeese, R.S., Yedidia, M.J., Lloyd, K., Tulloch, D., DeLia, D. and Ohri-Vachaspati, P., 2022. Differential Associations Between Changes in Food Environment and Changes in Body Mass Index Among Adults Living in Urban, Low-Income Communities. *The Journal of Nutrition* (DOI: . 10.1093/jn/nxac186)
4. DeWeese, R.S., Acciai, F., Tulloch, D., Lloyd, K., Yedidia, M.J. and Ohri-Vachaspati, P., 2022. Active commuting to school: A longitudinal analysis examining persistence of behavior over time in four New Jersey cities. *Preventive Medicine Reports*, p.101718. (<https://doi.org/10.1016/j.pmedr.2022.101718>)
5. Sabatino, M.E., R. J. Dennis, P. Sandoval-Trujillo, S. Valencia, K. Moreno-Medina, D. Londoño, A. E. Garcia-Torres, D. Tulloch, G. E. Herrera-Almario, G. L. Peck, N. Sandoval. 2022. Access to Pediatric Cardiac Surgery in Colombia: A Population-Based Study, *European Journal of Cardio-Thoracic Surgery* (<https://academic.oup.com/ejcts/advance-article-abstract/doi/10.1093/ejcts/ezab404/6378469>)
6. Ohri-Vachaspati, P., Acciai, F., Lloyd, K., Tulloch, D., DeWeese, R.S., DeLia, D., Todd, M. and Yedidia, M.J., 2021. Evidence That Changes in Community Food Environments Lead to Changes in Children's Weight: Results from a Longitudinal Prospective Cohort Study. *Journal of the Academy of Nutrition and Dietetics*, 121(3), pp.419-434.
7. Hanna, J.S., G.E. Herrera-Almario, M. Pinilla-Roncancio, D. Tulloch, S. A. Valencia, M. E. Sabatino, C. Hamilton, S. U. Rehman, A. K. Mendoza, L. C. Gómez Bernal, M. F. Moreno Salas, M. A. Peña Navarro, R. Nemoyer, M. Scott, M. Pardo-Bayona, A. M. Rubiano, M. Vasco Ramirez, D. Londoño, I. Dario-Gonzalez, V. Gracias, and G. L. Peck. 2020. "Use of the six core surgical indicators from the Lancet Commission on Global Surgery in Colombia: a situational analysis," *Lancet Global Health*, 8: (May) 5, pp. e699-e710.
8. Ohri-Vachaspati, P., DeWeese, R.S., Acciai, F., DeLia, D., Tulloch, D., Tong, D., Lorts, C. and Yedidia, M.J., 2019. Healthy food access in low-income high-minority communities: A longitudinal assessment—2009–2017. *International Journal of Environmental Research and Public Health*, 16(13), p.2354. (<https://doi.org/10.3390/ijerph16132354>).
9. Lorts, C., M. A Adams; N. Tasevska; D. Tulloch; M. Yedidia; S. Hooker; and P. Ohri-Vachaspati. 2019. "Community Food Environment Moderates Association between Health Care Provider Advice to Lose Weight and Eating Behaviors," *Preventive Medicine Reports*, (Published online, June 2019) (<https://doi.org/10.1016/j.pmedr.2019.100926>).
10. Tulloch, D. 2019. "Geohealth meets Geodesign: The multidisciplinary challenges of informing the regional design studio with human health research," *Journal of Digital Landscape Architecture*. 4: 300-307 (<https://gispoint.de/gisopen-paper/5574-geohealth-meets-geodesign-the-multidisciplinary-challenges-of-informing-the-regional-design-studio-with-human-health-research.html>).
11. Lorts, C., N. Tasevska, M. Adams, M. Yedidia, D. Tulloch, S. Hooker, and P. Ohri-Vachaspati. 2019. "Participation in the Supplemental Nutrition Assistance Program and Dietary Behaviors: Role of Community Food Environment," *Journal of the Academy of Nutrition and Dietetics*, 119 (6): 934-943 (<https://doi.org/10.1016/j.jand.2018.11.021>).
12. Tulloch, D. and W. Im, 2018. "Analysis of Park Use and Design using Geotagged Social Media," *Journal of Digital Landscape Architecture*, 3: 227-234 (<https://gispoint.de/gisopen-paper/4370-towards-using-social-media-as-a-geospatial-tool-for-measuring-design-impact-on-human-experiences.html>).
13. Tulloch, D. 2017. "Towards a working taxonomy of geodesign projects," *Transactions in GIS*, 10.1111/tgis.12245, 21 (4): 635–646.

14. Tulloch, D. 2016. "Relinquishing a bit of control: questions about the computer's role in geodesign," *Landscape and Urban Planning*, Special Issue on Geodesign 156: (December) 17–19 (<http://www.sciencedirect.com/science/article/pii/S0169204616301852>).
15. Cavanaugh, C. E., K. Mial, and D. Tulloch, 2016. "Assessing and mapping the availability of the female condom in the Philadelphia Metropolitan Area," *AIDS and Behavior*, 20: 2845 (doi: 10.1007/s10461-016-1317-x).
16. Brenner, C., K. Leach, and D. Tulloch. 2014. "Plyler Children: 21st century challenges with judicial-policy implementation affecting immigrant children in New Jersey," *Journal of Public Management & Social Policy*. 20: 1, 98-116.
17. Tang, X., P. Ohri-Vachaspati, J. K. Abbott, R. Aggarwal, D. Tulloch, and K. Lloyd. 2014. "Associations between Food Environment around Schools and Professionally Measured Weight Status for Middle and High School Students," *American Journal of Preventive Medicine* (<http://www.ncbi.nlm.nih.gov/pubmed/25343730>).
18. Ohri-Vachaspati, P., K. Lloyd, D. DeLeia, D. Tulloch, N. Petlick, D. Martinez, M. Yedidia. 2013. "A Closer Examination of Measures of Food and Physical Activity Environments as They Relate to Childhood Obesity," *Preventive Medicine*, 57: 162–167 (<http://www.rwjf.org/en/research-publications/find-rwjf-research/2013/05/a-closer-examination-of-the-relationship-between-children-s-weight.html>).
19. DeWeese, R., M, J. Yedidia, D. Tulloch, P. Ohri-Vachaspati. 2013. "Neighborhood Perceptions and Active School Commuting in Low-Income Cities," *American Journal of Preventive Medicine*, 45(4): 393–400.
20. Tulloch, D. 2013. "Learning from Students: Geodesign lessons from the Regional Design Studio," *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*, 6:3, 256-273.
21. Tulloch, D. 2012. "Geographic information systems and landscape architectural design and scholarship. A source of heritage and tension," *Revue Internationale de Géomatique* Special Issue: Geodesign: From Theory to Practice, 22:2, 169-184.
22. Tulloch, D. 2008. "Is VGI participation? From vernal pools to video games," *GeoJournal* 72: 161-171. (Most cited)
23. Tulloch, D., and E. Graff. 2007. "Green Map exercises as an avenue for problem-based learning in a data-rich environment," *Journal of Geography* Special Issue on Geographic Data and Education, 106 (6): 267-276.
24. Tulloch, D., and F. Harvey. 2007, "When Data Sharing Becomes Institutionalized: Best Practices in Local Government GI Relationships," *URISA Journal*, 19: 2, 51-59 ([http://www.urisa.org/files/Journal\\_Vol19No2.pdf](http://www.urisa.org/files/Journal_Vol19No2.pdf)).
25. Tulloch, D. 2007. "Many, many maps: Empowerment and the rapid growth of online participatory mapping," *First Monday* 12:2 (online at: [http://www.firstmonday.org/issues/issue12\\_2/tulloch/index.html](http://www.firstmonday.org/issues/issue12_2/tulloch/index.html)).
26. Lathrop, R.G., D. Tulloch, C. Hatfield. 2007. "Consequences of Land Use Change in the New York-New Jersey Highlands, USA: Landscape Indicators of Forest and Watershed Integrity," *Landscape and Urban Planning* 79: 2, 150-15
27. Harvey, F., and D. Tulloch. 2006. Local Government Data Sharing: Evaluating the Foundations of Spatial Data Infrastructures. *International Journal of Geographical Information Science*. 20(7), 743-768.
28. Tulloch, D., and T. Shapiro. 2003, "The Intersection of Data Access and Public Participation: Impacting GIS Users' Success?" *URISA Journal* (<http://www.urisa.org/Journal/APANo2/Tulloch.pdf>).
29. Tulloch, D., Hasse, J., Myers, J., Parks, P., and Lathrop, R. 2003. The Challenge of Automating Public Farmland Preservation Techniques, *Landscape and Urban Planning* 63:1, 33-48.
30. Tulloch, D. 2002. Data Shaping the Landscape: How Institutionalizing GIS Can Impact Public Decision Making and Policies About Our Landscapes, *Council of Educators in Landscape Architecture 2002 Conference Proceedings*.
31. Tulloch, D. 2002. "Locally Produced Geodetic Control and Cadastral Framework Data in the United States," *Surveying and Land Information Systems*, 61 (3): 201-205.
32. Tulloch, D., and E. Epstein. 2002. "Benefits of Community MPLIS: Efficiency, Effectiveness, and Equity," *Transactions in Geographic Information Systems*, 6 (2): 195-212.

33. Tulloch, D., and J. Fuld. 2001. "County-level Production of Framework Data: Pieces of a National Spatial Data Infrastructure?" *Journal of the Urban and Regional Information Systems Association*, 13 (2), 11-21. Available on-line at: "[http://www.urisa.org/Journal/Under\\_Review/tulloch/exploring\\_county\\_level\\_production\\_of.htm](http://www.urisa.org/Journal/Under_Review/tulloch/exploring_county_level_production_of.htm)")
34. Tulloch, D., and M. Robinson. 2000. A Progress Report on a U.S. National Survey of Geospatial Framework Data, *Journal of Government Information*, 27: 285-298.
35. Tulloch, D. 2000. "Data Shaping The Landscape: GIS and Stewardship," *Landscape Journal*, 19: 211-219.
36. Tulloch, D. 1999. "Theoretical Model of Multipurpose Land Information Systems Development," *Transactions in Geographic Information Systems*, 3: 3, 259-83.
37. Tulloch, D., D. Barnes, D. Bartholomew, D. Danielson, and N. von Meyer. 1997. "The Wisconsin Land Information Program: Supporting Community Land Information System Development," *Surveying and Land Information Systems*, 57 (December): 4, 241-248.
38. Tulloch, D. 1994. "Areal Changes in US Forested Wetlands from 1940-1990," *Wetlands Ecology and Management*, 3 (1994) 1, 49-53.

### **Funded Research and Projects**

Yedidia, MJ and P. Ohri-Vachaspati. 2017-21. "Examining Obesity Declines among School Children: The Role of Changes in the Food and Physical Activity Environments," National Institute of Child Health and Development (NIH/NICHD), D. Tulloch co-investigator. \$2,950,306 (Grant through Rutgers Center for State Health Policy).

Tulloch, D., and H. Fenyk. 2019. "Mapping the Hidden Streams of the Lower Raritan Watershed," Raritan River Research Consortium Mini-Grant, \$7950.

Taylor, M, D. Tulloch, K. Lyons, R. Waddell, and L. Lawson. 2018. "Urban agriculture feasibility for the City of Camden," Cooper's Ferry Partnership, \$20,000.

Tulloch, D. 2016-2017. "Geohealth Workshops: A healthier Elizabeth through assessment and design," New Jersey Healthy Communities Network, \$20,000.

Yedidia, MJ and Ohri-Vachaspati P.. 2012-18. "Impact of Environmental Changes on Children's BMI and Behaviors: A Panel Study," National Institute of Child Health and Development (NIH/NICHD), D. Tulloch co-investigator. \$3,027,486 (Grant through Rutgers Center for State Health Policy).

Ohri-Vachaspati P, PI. 2012-17. "Tracking the Impact on Children of Changes in the Food and Physical Activity Environments in Five New Jersey Cities over Five Years," Robert Wood Johnson Foundation, \$559,798. MJ Yedidia co-PI, D. Tulloch co-investigator. (Grant through Rutgers Center for State Health Policy).

Hartman, J., H. Nelson, and D. Tulloch. 2010-11. "St Croix Site Planning Project," Office of Insular Affairs, US Department of Interior, \$56,322.

Yedidia, M., PI. 2008-11. "New Jersey Childhood Obesity Study," Robert Wood Johnson Foundation, \$1,638,000. P. Ohri-Vachaspati, D. Tulloch co-investigators. (Grant through Rutgers Center for State Health Policy).

Fine, J., J. DeFilippis, and U. Berg (PIs) 2009-10. Rutgers Immigrant Infrastructure Map (RIIM), with K. Newman, R. Rodriguez, M. Sidney, C. T. Brenner, and D. Tulloch (Faculty) and S. Munn (Project Director), Carnegie Foundation, \$50,000.

Fine, J., J. DeFilippis, and U. Berg (PIs) 2009-10. Rutgers Immigrant Infrastructure Map (RIIM): An Inter-Disciplinary Planning Grant, with K. Newman, R. Rodriguez, M. Sidney, C. T. Brenner, and D. Tulloch (Faculty) and S. Munn (Project Director), Rutgers Academic Excellence Fund Award, \$60,000.

Tulloch, D. 2008. "Data Analysis of Food Supply Issues in New Jersey," contract with Philadelphia Food Trust (supported by Robert Wood Johnson Foundation) \$10,000.

Lathrop, R. and D. Tulloch. 2007-8. "Enhancing Spatial Literacy Education," Charlesworth Family Donation, \$40,000.

Lathrop, R. 2006-7. "New Jersey LiDAR Workshop," NASA-IAGT, \$5,000 (Project Team).

Tulloch, D. 2007-12. Umbrella station project, "Advancing New Jersey Landscape Change Research," New Jersey Agricultural Experiment Station. (Amount unspecified)

Tulloch, D. 2006-07 "The NJ E-Scape: A Landscape Information Resource for the New Millennium," NJASLA/ASLA Chapter Initiative Program grant.

Cook College. 2006-07. "Waste Stream and BioEnergy Technology Assessment Project," NJ Board of Public Utilities \$160,000. Proposal Co-author, GIS team leader.

Tulloch, D. 2006-07. "GIS Case Studies in Landscape Architecture," Rutgers University, Research Council Grant, \$1,000.

Tulloch, D., and J. Myers. 2006. "Exploratory Study Using GIS and Aerial Photography to Remotely Identify Equine Facilities," through New Jersey Agricultural Experimentation Station, \$2,500.

Future City, Inc. 2005-06. Sustaining Our Spaces, Elizabeth River/Arthur Kill Watershed, Geraldine R. Dodge Foundation, \$35,000. (Co-author, research leader)

Lathrop, R., and D. Tulloch, 2003-4. "New Jersey Remote Sensing Workshop," NASA-IAGT, \$5,000.

Lathrop, R., and D. Tulloch. 2004. "Advancing GIS-based Tools for Land Use Planning in the New Jersey Highlands," USDA Forest Service \$45,000.

Tulloch, D., and R. Lathrop, 2003. "Evaluation of New Jersey Land Use Change in Relation to Spatial Proximity to Wetlands" New Jersey Center for Environmental Indicators, \$5,000.

Lathrop, R., and D. Tulloch. 2002-03. "Applying GIS-based Tools for Land Use Planning in the New Jersey Highlands," Geraldine R. Dodge Foundation \$45,000.

Lathrop, R., D. Tulloch and C. Hatfield. 2001-2. "Assessment of the New York/New Jersey Highlands," US Forest Service/US Congress, \$175,000.

Harvey, F., and D. Tulloch, 2001-2. "Building the NSDI at the Base: Establishing Best Sharing and Coordination Practices among Local Governments" UCGIS/FGDC, \$45,000.

- Tulloch, D. 2000. "Exploratory Studies of the NSGIC/FGDC Framework Survey: Looking at the State of the Nation," The Universities Consortium for Geographic Information Sciences, \$29,000.
- Tulloch, D. 1999. "Comparative Study of Community GIS," Rutgers University, Research Council Grant, \$900.
- Tulloch, D., R. Lathrop, and P. Parks, 1999-2001. United States Department of Agriculture Cooperative State Research, Education, and Extension Service, National Research Initiative Competitive Grants Program, "Developing Community-based Tools for Farmland Preservation Evaluation," \$145,000.
- Tulloch, D. 1998-2006. "Study of Local Government Development and Application of Geo-Spatial Technologies," Hatch grant - New Jersey Agricultural Experiment Station. (Amount unspecified)
- Strom, S., J. M. Hartman, and D. Tulloch. 1997-99. United States Department of Agriculture - National Urban and Community Forestry Advisory Council, \$104,700.

### **Poster Sessions**

- Lorts, C., M. Adams, N. Tasevska, S. Hooker, D. Tulloch, M. Yedidia, P. Ohri-Vachaspati, 2018. "Does Community Food Environment Matter For Following Health Care Provider Advice on Eating Behaviors?" American Society for Nutrition, Boston, MA.
- Tulloch, D., B. Allen, K. Brandt, and G. Lautenbach. 2017. "Elizabeth, NJ Geohealth Workshop: Food and Physical Activity Environment Assessments." New Jersey Healthy Communities Network, September 2017, Plainsboro, NJ.
- Cavanaugh, C. E., K. Mial, and D. Tulloch, 2015. "Evaluating The Availability of the Female Condom in Urban Areas Disproportionately Affected by HIV in The United States," Society for Prevention Research Conference, May 2015, Washington, DC.
- Tulloch, D. 2014. "CyberGIS as a spatial data infrastructure for geodesign," Poster Presentation, CyberGIS 2014, August 2014, Redlands, CA.
- Shao, N., J. Hasse, D. Tulloch, J. Hartman, S. Strom. 1999. "The Value of Green in the City: Analyzing Relationships of Housing to Components of Urban Forestry Using GIS and Remote Sensing Imagery," Contributed Poster Session, International Association for Landscape Ecology: 5th World Congress, Snowmass, CO.

### **Reports**

- Almario, G.E.H., J Hanna, G. Peck, and D. Tulloch. 2018. Fulfilling Colombia's universal health coverage through national surgical system strengthening. Joint report by Rutgers Global Surgery, Geohealth Lab, LAIRC, and Universidad de los Andes to the Colombian Ministry of Health, December 2018.
- Tulloch, D., B. Allen, K. Brandt, and G. Lautenbach. Geodesign Studio, 2017, "Elizabeth, NJ Geohealth Workshop: Food and Physical Activity Environment Assessments," Geohealth Lab @ CRSSA, New Brunswick, NJ.

- Geodesign Studio, Fall 2016, "Designing a Healthier Somerset: A Series of Recommendations for a Healthier Future,"  
Semester Studio project with Somerset County Office of Planning.
- Fine, J., A. Mann, D. Tulloch, F. S. Bentley. 2014. Meet the Neighbors: Organizational and Spatial Dynamics in Immigrant  
New Jersey. Rutgers Eagleton Institute of Politics ([http://epid.rutgers.edu/wp-content/uploads/2014/02/MEET-THE-NEIGHBORS.FINAL\\_.pdf](http://epid.rutgers.edu/wp-content/uploads/2014/02/MEET-THE-NEIGHBORS.FINAL_.pdf))
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, D. Martinez, M. Yedidia. 2010. *Food Environment Maps Chart Book, Camden: The  
New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8400.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, J. Chou, M. Yedidia. 2010. *Physical Activity Environment Maps Chart Book,  
Camden: The New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8540.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, D. Martinez, M. Yedidia. 2010. *Food Environment Maps Chart Book, Newark: The  
New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8420.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, J. Chou, M. Yedidia. 2010. *Physical Activity Environment Maps Chart Book,  
Newark: The New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8550.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, D. Martinez, M. Yedidia. 2010. *Food Environment Maps Chart Book, New  
Brunswick: The New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8440.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, J. Chou, M. Yedidia. 2010. *Physical Activity Environment Maps Chart Book, New  
Brunswick: The New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8560.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, D. Martinez, M. Yedidia. 2010. *Food Environment Maps Chart Book, Trenton: The  
New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8460.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, J. Chou, M. Yedidia. 2010. *Physical Activity Environment Maps Chart Book,  
Trenton: The New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8570.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, D. Martinez, M. Yedidia. 2010. *Food Environment Maps Chart Book, Vineland: The  
New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8480.pdf>)
- Ohri-Vachaspati, P., D. Tulloch, N. Petlick, J. Chou, M. Yedidia. 2010. *Physical Activity Environment Maps Chart Book,  
Vineland: The New Jersey Childhood Obesity Study*. Rutgers Center for State Health Policy.  
(<http://www.cshp.rutgers.edu/Downloads/8580.pdf>)

- Food Trust. 2009. *Food for Every Child: The Need for More Supermarkets in New Jersey*. Food Trust: Philadelphia, PA.
- Rutgers Equine Science Center. 2007. *The New Jersey Equine Industry 2007; Economic Impact*. NJAES: New Brunswick, NJ ([http://esc.rutgers.edu/news\\_more/PDF\\_Files/2007\\_Equine\\_Economic\\_Impact\\_Study\\_Report.pdf](http://esc.rutgers.edu/news_more/PDF_Files/2007_Equine_Economic_Impact_Study_Report.pdf)).
- Tulloch, D. 2007. "Public participation mapping," *Green Map News*, p. 3.
- Lathrop, R.G., C. Hatfield and D. Tulloch. 2003. Section 2: Land Resources. In: *New York-New Jersey Highlands Regional Study Technical Report*. Ed. M. Hoppe. USDA Forest Service NA-TP-04-03, Newtown Square, PA. pp. 45-219.
- US Forest Service. 2002. *The Highlands of New York and New Jersey Regional Assessment: Final Report*. Government Printing Office: Washington, DC.
- Tulloch, D. 2002. "Institutional GIS," Draft Research Challenge for the Universities Consortium for Geographic Information Sciences. (<http://www.crssa.rutgers.edu/InstitutionalGIS.html>)
- Carlile, J., B. H. Davis, P. Brainard, D. Tulloch, and J. M. Hartman. 2002. *High Lakes Greenway: Vision Plan*, Morris Land Conservancy. Boonton, NJ.
- Tulloch, D. 2001. "Position Paper on Landscape Change," for the Workshop on Landscape Change, Santa Barbara, CA, January 2001. (<http://www.ncgia.ucsb.edu/landscape-2/landscape.htm>)
- Tulloch, D. 1999. "The Portland Community: A Working Model of Framework Data Sharing and Coordination," sidebar article in *Framework Data Survey Preliminary Report*, a Supplement to *Geo Info Systems*, p. 32.
- Tulloch, D., E. F. Epstein, D. D. Moyer, B. J. Niemann, S. J. Ventura, and R. Chenoweth. 1998. "GIS and Society: A Research Agenda," *ViewPoint*. Winter 1998.
- Tulloch, D., D. D. Moyer, and B. J. Niemann. 1998. "Modernizing Dane County's Register of Deeds: Saving Property Owners \$4.6 Million," *Land Information Bulletin*, No. 1.
- Tulloch, D., E. F. Epstein, B. J. Niemann, and S. J. Ventura. 1997. *Multipurpose Land Information Systems Development Bibliography: A Community-wide Commitment to the Technology and its Ultimate Applications*. National Center for Geographic Information Analysis Technical Report 97-1. Santa Barbara, CA.
- Tulloch, D., B. J. Niemann, S. J. Ventura, and E. F. Epstein. 1996. "The Final Stages of Land Records Modernization and Their Associated Benefits: The Pot at the End of the Rainbow?" *White Paper for the Workshop on The Future of Spatial Data and Society*, Mapping Science Committee, National Academy of Sciences/National Research Council, April 1996.
- Tulloch, D., and B. J. Niemann. 1996. "Adoption and Diffusion of GIS: Working Bibliography," *White Paper for the Workshop on The Future of Spatial Data and Society*, Mapping Science Committee, National Academy of Sciences/National Research Council, April 1996.



## Conference Presentations

- Tulloch, D., 2021, Shaping Communities with Geodesign: Facing the multidisciplinary challenges of the Green New Deal with smart applications, International Conference for Smart Green Infrastructure, SangMyung University, Graduate School of Green New Deal Convergence Technology Specialization, October 2021 (online).
- Sabatino M, Dennis R, Sandoval-Trujillo P, Valencia S, Moreno-Medina K, Londoño D, Garcia-Torres A, Tulloch D, Herrera-Almario G, Peck G, Sandoval-Reyes N. Access to Pediatric Cardiac Surgery in Colombia: A Population-Based Study. InCUGH 2021 Virtual Conference. CUGH.
- Ohri-Vachaspati, P., Acciai, F., Lloyd, K., Tulloch, D., DeWeese, R., DeLia, D., Todd, M. and Yedidia, M., 2020, October. Changes in food environments near children's homes can significantly impact children's BMI—evidence from a longitudinal study. In APHA's 2020 VIRTUAL Annual Meeting and Expo (Oct. 24-28). American Public Health Association.
- Tulloch, D., 2019, "Expanding the value of national surgical systems analyses with GIS and health geography," ISPOR Latin America, Bogota, Colombia, September 2019.
- Tulloch, D., 2019. "Geohealth meets Geodesign: multidisciplinary challenges of informing the regional design studio with human health research" Digital Landscape Architecture Conference, Dessau, Germany.
- Tulloch, D., and W. Im. 2019. "Comparing parks using Twitter" Council of Educators in Landscape Architecture, Sacramento, CA.
- Tulloch, D., and W. Im. 2018. "Analysis of Park Use and Design using Geotagged Social Media," Digital Landscape Architecture Conference, Hochschule Weihenstephan-Triesdorf, Germany.
- Tulloch, D., 2018. "Geospatial research on childhood obesity and potential responses in urban community design." Council of Educators in Landscape Architecture, Blacksburg, VA.
- DeWeese, R., P. Ohri-Vachaspati, D. DeLia, F. Acciai, D. Tulloch, and M. Yedidia. 2018. "Disparate access to healthy food in low income and minority communities: A longitudinal analysis, 2008 – 2017," American Public Health Association, San Diego, CA.
- Lorts, C., P. Ohri-Vachaspati, N. Tasevska, M. Adams, D. Tulloch, S. Hooker, and M. Yedidia. 2018. "SNAP Participation and Sugar Sweetened Beverage Consumption: Does the Community Food Environment Matter?" American Public Health Association, San Diego, CA.
- Tulloch, D. 2017. "Geodesign Taxonomy: Examples from the real world," Rutgers GIS Day, New Brunswick, NJ.
- Tulloch, D. 2016. "GeoHealth reshaping community health," Rutgers GIS Day, New Brunswick, NJ.
- Tulloch, D. 2011. "The Evolving Relationship between Landscape Architecture and GIScience," North American Cartographic Information Society (NACIS), Madison, WI.
- Tulloch, D. 2010. "In Fits and Starts: Historic and future relationships between GIS and LA," Council of Educators in Landscape Architecture/ISOMUL 2010, May 2010, Maastricht, The Netherlands.
- Tulloch, D. 2010. "Fast, Cheap, and Online," Land Trust Rally, New Jersey Conservation Foundation, Montclair, NJ.

- Tulloch, D. 2009. "Understanding the Role of Emerging Geospatial Technologies in Landscape Architecture: PPGIS, VGI, and Video Games," 2008 (sic) Annual Conference of the Council of Educators in Landscape Architecture, Tucson, AZ.
- Tulloch, D. 2005. "Moving the Appalachian Trail: Inventory, Analysis, Models, and Maps," ESRI User Conference, August 2005.
- Tulloch, D. 2004. "The Green Map System as a Means for PPGIS Education and Exploration," 3rd Annual PPGIS Conference, Madison, WI.
- Tulloch, D. 2003. "What PPGIS Really Needs Is...," 2nd Annual PPGIS Conference, Portland, OR.
- Tulloch, D. 2003. "A Multidisciplinary Approach to Developing a Landscape Change Research Agenda and Program Through Research, Teaching, and Outreach," *Council of Educators in Landscape Architecture*, September 2003.
- Tulloch, D., and F. Harvey. 2002. "Best Practices for Data Sharing in Local Government," 2002 Annual Conference of *the Urban and Regional Information Systems Association*, October 2002.
- Tulloch, D. 2002. "Data Shaping the Landscape: How Institutionalizing GIS Can Impact Public Decision Making and Policies About Our Landscapes," *Council of Educators in Landscape Architecture*, September 2002.
- Tulloch, D. 2000. "Looking Back and Looking Ahead: The State of Framework Data," 2000 Annual Conference of the Urban and Regional Information Systems Association.
- Tulloch, D. 1998. "Publicly Accessible Geo-Spatial Data: Different Needs for Different Users," 1998 Annual Conference of the Council of Educators in Landscape Architecture, Arlington, TX.

## Book Chapters

- Tulloch, D. 2008. "Public Participation GIS (PPGIS)," Entry in K. Kemp (Eds.) *Encyclopedia of GIS*: Sage Publications, p. 351-353. (Invited)
- Tulloch, D. 2008, "Institutional GIS" Chapter 25 in J. Wilson and S. Fotheringham (Eds.) *Handbook of Geographic Information Science* pp. 449-465 (Invited).
- Elmes, G., E. Epstein, R. McMaster, B. Niemann, B. Poore, E. Sheppard, and D. Tulloch. 2004. "GIS and Society: Interrelation, Integration, and Transformation," Chapter 10 in R. B. McMaster and E. L. Usery, *A Research Agenda for Geographic Information Science*, Boca Raton: CRC Press, pp. 287-312.
- Lathrop, R.G., and D. Tulloch, C. Hatfield, P. Parks, C. Phillipuk, J. Bogner, R. Pirani, M. Phelps and M. Hoppe. 2004. GIS-based Conservation Values Assessment of the New York-New Jersey Highlands. In: *Message for the Tatra: Geographical Information Systems and Remote Sensing in Mountain Environmental Research*. W. Widacki, A. Bytnerowicz and A. Riebau (Eds.), Jagiellonian University Press and USDA Forest Service. pp. 201-216.
- Tulloch, David L. 2002. Environmental NGOs and Community Access to Technology as a Force for Change. In Craig Will, Trevor Harris, and Daniel Weiner. *Community Participation and Geographic Information Systems*. London: Taylor and Francis. 192-204.

- Tulloch, D. 1999. "The Wisconsin Approach: A State-Wide, Parcel-Based, Grass Roots Solution," in *Digital Parcel Mapping: Standards and Strategies for New Jersey's Parcel Mapping Communities*, K. Parrish (ed.), Trenton, NJ, New Jersey State Mapping Advisory Committee.
- Tulloch, D. 1999. "The Wisconsin Approach: A State-Wide, Parcel-Based, Grass Roots Solution," in *Digital Parcel Mapping Handbook: Standards and Strategies for New Jersey's Parcel Mapping Communities*, K. Parrish (ed.), Chicago, IL, Urban and Regional Information Systems Association. (Nationally marketed and distributed version of above document)
- Wiggins, L., D. Tulloch, R. Sieber. 1999. "Organizational Issues," in *Digital Parcel Mapping: Standards and Strategies for New Jersey's Parcel Mapping Communities*, K. Parrish (ed.), Trenton, NJ, New Jersey State Mapping Advisory Committee.
- Wiggins, L., D. Tulloch, R. Sieber. 1999. "Organizational Issues," in *Digital Parcel Mapping Handbook: Standards and Strategies for New Jersey's Parcel Mapping Communities*, K. Parrish (ed.), Chicago, IL, Urban and Regional Information Systems Association. (Nationally marketed and distributed version of above document)

## Book Reviews

- Tulloch, D. 2014. Book Review of *Crowdsourcing Geographic Knowledge: Volunteered geographic information (VGI) in theory and practice*, edited by Sui, Elwood and Goodchild in *International Journal of Geographical Information Sciences*, 28: 4, 847-849. (Invited)
- Tulloch, D. 2012. Book Review of *Spatial Data Infrastructures in Context, North and South*, edited by Nedovic-Budic, Crompvoets, Georgiadou in *Environment and Planning B*. (Invited)
- Tulloch, D. 2009. Book Review of D. Steiner, *The Living Landscape*, *Journal of American Planning Association*. (Invited)

## Selected Conference Proceedings

- Tulloch, D., 2018. Geospatial research on childhood obesity and potential responses in urban community design. (Peer-reviewed abstract in CELA 2018/Landscape Research Record)
- Tulloch, D. 2013. "Heeding Its Lessons – How the New Field of Geodesign Can still Learn from Past Experiences," *Proceedings from Digital Landscape Architecture Conference* (Anhalt University). pp. 282-288. ([http://gispoint.de/fileadmin/user\\_upload/paper\\_gis\\_open/537527036.pdf](http://gispoint.de/fileadmin/user_upload/paper_gis_open/537527036.pdf))
- Tulloch, D. and J. M. Hartman. 2005. "Moving the Appalachian Trail: Inventory, Analysis, Models, and Maps," ESRI User Conference, San Diego, CA (<http://proceedings.esri.com/library/userconf/proc05/papers/pap2060.pdf>).
- Tulloch, D. 2004. "The Green Map System as a Means for PPGIS Education and Exploration," 3rd Annual PPGIS Conference, Madison, WI, URISA (<http://crssa.rutgers.edu/ppgis/PPGIS2004.pdf>).
- Tulloch, D. 2003. "What PPGIS Really Needs Is...," 2nd Annual PPGIS Conference, Portland, OR, URISA.

Tulloch, D. 2000. "Looking Back and Looking Ahead: The State of Framework Data," Proceedings of URISA 2000, 427-36 (CD-ROM).

Tulloch, D. 1998. "Environmental NGOs: Community Access to Technology as a Force for Change," Workshop Paper for National Center for Geographic Information Analysis Specialist Meeting on Empowerment, Marginalization, and Public Participation GIS (<http://ncgia.ucsb.edu/varenius/ppgis/papers/tulloch/tulloch.html>).

Sheppard, E., G. Elmes, B. J. Niemann, D. Tulloch, E. F. Epstein, and R. Taupier. 1998. "GIS and Society," UCGIS White Paper.

Epstein, E. F., Tulloch, D., and B. J. Niemann, Jr. "Efficiency, Effectiveness, and Equity: Necessary Benefits for Community MPLIS Justification," Proceedings of URISA '97 (CD-ROM).

Tulloch, D., E. F. Epstein, and B. J. Niemann. 1997. "Will Concern for Equity Be a Defining Trend in LIS/GIS in the Next Decade?" 1997 ACSM/ASPRS Annual Convention and Exposition, Technical Papers Volume 5: Auto-Carto, 13 429-438.

### **Keynote Lectures**

Tulloch, D. 2019. "Lines shaping the landscape: Highlands, Home Rule and Hydrology," St. John's University, Environmental Studies Program, November 2019, New York City, NY.

Tulloch, D. 2019. "Landscape lessons: Tales of GIScience shaping public policy and public policy shaping GIScience networks," Temple University GIS Day, November 2019, Philadelphia, PA.

Tulloch, D. 2019. "Adding the spatial dimension to hospital analyses: the value of mapping surgical networks," Encuentro Nacional del Cirujano, Asociación Mexicana de Cirugía General, July 2019, Mexico City, Mexico.

Tulloch, D. 2019. "Geospatial translation of LCoGS Indicators to consider Colombian Nation, Antioquia and 8-region level interventions," Cirugía Global Colombia, April 2019, Medellin, Colombia.

Tulloch, D. 2014. "GIS as a Tool and Science for Healthier Landscapes," GIS Day at Burlington County College, November 2014.

Tulloch, D. 2013. "Geospatial People: The Role of Volunteered Geographic Information, Public Participatory GIS, and Public Data in Changing Geographic Information Science." Keynote Lecture at Geospatial Summit, April 2013, Madison, WI.

Tulloch, D. 2009. "Thoughts on the Institutionalization of GIS Education." Keynote Lecture at MAC-URISA Conference, December 2009, Bordentown, NJ.

Tulloch, D. 2009. "Bits of Landscapes: the Internet and geospatial information in a new era of planning and design," Arizona State University, Tempe, AZ.

### **Professional Periodicals**

Tulloch, D. 2013. "Students Map Critical Gas Resources," GeoPlace.com Online Exclusive, January 31, 2013.

Tulloch, D. 2009. "A Valuable Teaching Tool," *Landscape Architecture Magazine*, 99 (June) 6: 48.

Graff, E. and D. Tulloch. 2007. "Integration von Jugendlichen in die Stadtplanung," *Garten + Landschaft*. 117: 4, 32-34.  
(Invited; in German)

Tulloch, D., and B. J. Niemann. 1996. "Evaluating Innovation: The Wisconsin Land Information Program," *Geo Info Systems* 6 (October) 10: 40-44.

### **Invited Conference Presentations**

Tulloch, D. 2015. "The lab's impact on the development of Geographic Information Science," 2015 CGA Conference: The Lab for Computer Graphics and Spatial Analysis (1965-1991) and Its Legacy, Harvard University, May 2015.

Tulloch, D. 2014. "CyberGIS as a spatial data infrastructure for geodesign," plenary lightning talk, CyberGIS 2014, August 2014, Redlands, CA. (Invited)

Tulloch, D. 2010. "Mapping Land Use Change," Shaping the "City" of New Jersey: 2010 Center for Urban Environmental Sustainability Workshop, April 2010, New Brunswick, NJ. (Invited)

Tulloch, D., and R. Lathrop. 2010. "Climate Change, Impacts and Interventions for Coastal Landscapes," 2010 Annual Meeting of the New Jersey Chapter of the American Society of Landscape Architects, Atlantic City, NJ (Invited).

Tulloch, D., B. Heller and E. Krafcik. 2010. "Stony Brook-Millstone Watershed: A Case Study in State of the Art," 2010 Annual Meeting of the New Jersey Chapter of the American Society of Landscape Architects, Atlantic City, NJ (Invited).

Tulloch, D. 2008. "Data Sharing for a Purpose: A Business Case for Data Sharing," Annual Conference of the Urban and Regional Information Systems Association, New Orleans, LA (Invited).

Tulloch, D. 2005. "Backsights and Foresights: Some thoughts on Digital Stewardship and Landscape Architecture," GIS in LA Workshop, ASLA 2005, Ft. Lauderdale (Invited).

Tulloch, D. 1999. "Democratization of GIS," Roundtable Moderator, Annual Conference of the Urban and Regional Information Systems Association 1999, Chicago. (Invited)

## **Panels**

- Tulloch, D. 2021. Panelist on “Creating Spaces for Youth in Our Work: Supporting Their Growth in Community Leadership” with J. Ezell (Moderator), S. Sunderlal, A. Fitzgerald, D. Tulloch, S. Fearon-Elliott, and J. Benitez, Waterway Stories: 2021 Conference of the NY-NJ Harbor & Estuary Program, November 2021 (Online).
- Tulloch, D. 2021. Panelist on “Panel on Landscape Architecture For Health: Teaching and Pedagogical Strategies on Landscape for Health-Design,” with C. Lee, D. Li, S. Jiang, S. Lee, and T. Eisenman, Council of Educators in Landscape Architecture, March 2021 (Online).
- Tulloch, D., 2021. Moderator, “On-the-Ground”: Acting on Research, Studio and Design Strategies,” ASLA Webinar, February 5 2021.
- Tulloch, D., 2019, “Evaluating health systems capacity for timely, quality, and affordable surgical care- a Latin American framework for situational analysis through data collection, analysis and interpretation,” ISPOR Latin America, Bogota, Colombia, September 2019.
- Tulloch, D. 2015. “Careers in GIS,” GIS Day 2015, Rutgers University GIS Day, November 2015. (Invited)
- Tulloch, D. 2015. “Panel II: The Legacies,” Sara Irina Fabrikant, Michael F. Goodchild, Don Janelle, David M. Mark, David Tulloch, Charles Waldheim, 2015 CGA Conference: The Lab for Computer Graphics and Spatial Analysis (1965-1991) and Its Legacy, Harvard University, May 2015. (Invited)
- Tulloch, D. 2014. “GIS as a Tool and Science for Healthier Landscapes,” Moderated and lectured at Universitätsallianz Ruhr (UA Ruhr) at New York City German Consulate, November 2014 (<http://germaninnovation.org/news-and-events/past-events/past-event?id=42fd5e27-ad27-e411-91f5-000c29e5517f>).
- Tulloch, D., C. Phillips, D. Pitt, and D. Hadley. 2013. “Geodesign: A new “old” approach to design.” Organized and presented panel at ASLA 2013, Boston, MA.
- Steinitz, C., S. Ervin, D. Olsen, and D. Tulloch. 2005. “Spatial Technology in Landscape Architecture,” Panel in GIS in LA Workshop, ASLA 2005, Ft. Lauderdale (Invited).
- Tulloch, D. 2004. “GIS-based Green Mapping with Landscape Architecture Students,” Municipal Art Society Panel on Sustainability Education and Mapping, October 2004 (Invited).

## **University Lectures**

- Tulloch, D. 2013. “Geospatial People: The Role of Volunteered Geographic Information, Public Participatory GIS, and Public Data in Changing Geographic Information Science.” University of Wisconsin-Milwaukee, April 2013.
- Tulloch, D. 2012. “Spatial Perspectives,” School of Landscape Architecture, University of New Mexico, April 2012 (Invited).
- Tulloch, D. 2012. “PPGIS, VGI, and Video Games as Emerging Geospatial Technologies in Planning and Design,” University of Seoul, Seoul, South Korea, March 2012 (Invited).

- Tulloch, D. 2012. "Developing and sharing government data for optimizing public benefits," Ulsan National Institute of Science and Technology," Ulsan, South Korea, March 2012 (Invited).
- Tulloch, D. 2012. "Developing and sharing government data for optimizing public benefits," Hanyang University, Seoul, South Korea, March 2012 (Invited).
- Tulloch, D. 2012. "The Emerging Field of Geodesign: A new future for landscape architecture and GIS," SangMyung University, Seoul, South Korea, March 2012 (Invited).
- Tulloch, D. 2012. "The Emerging Field of Geodesign: A new future for landscape architecture and GIS," SangMyung University, Cheonan, South Korea, March 2012 (Invited).
- Tulloch, D. 2012. "Shaping the Future: Landscape Architecture, Geodesign and GIS," Rowan University, February 2012 (Invited).
- Tulloch, D. and R. Lathrop. 2010. "Addressing the vulnerability of the New Jersey coast to climate change and sea level rise," Invited Lecture at Temple University-Ambler, Ambler, PA (Invited).
- Tulloch, D. 2009. "Bits of Landscapes: the Internet and geospatial information in a new era of planning and design," Arizona State University, Tempe, AZ. (Invited)
- Tulloch, D. 2007. "Interstitial Spaces and Spatial Interfaces," Rutgers Landscape Architecture Lecture Series.
- Tulloch, D. 2006. "Land Use, Landscape Architecture and GIS," Guest Lecture at University of Kentucky (Invited).
- Tulloch, D. 2002. "Farmland Preservation in the Garden State: Automation and Advancement of a Spatially-Implicit Policy," College of Agriculture, University of Kentucky, Lexington, KY, January. 2002. (Invited)
- Tulloch, D. 2001. "GIS and Landscape Architecture and Stewardship," Department of Landscape Architecture and Regional Planning, University of Massachusetts-Amherst, Amherst, MA, February 2001. (Invited)
- Tulloch, D. "Land Information Systems: Benefits of Community Applications," Portland State University, Portland, OR, April 2000. (Invited)
- Tulloch, D. "Benefits of The Development of Community Multipurpose Land Information Systems," Technical University of Vienna, Vienna, Austria, March 2000. (Invited)

### **Government Lectures**

- Tulloch, D. 2012. "VGI and GIS for community input," SeonBok-Gu Government, SeonBok-Gu, Seoul, South Korea, March 2012. (Invited)
- Tulloch, D. 2012. "Developing and sharing government data for optimizing public benefits," Metropolitan Government of Seoul, Seoul, South Korea, March 2012. (Invited)
- Tulloch, D. 2012. "Making and mapping the world we want: How PPGIS and VGI are changing environmental planning," Nam Yang Ju municipal government, Nam Yang Ju, South Korea, March 2012. (Invited)

Tulloch, D. 2000. "What is METRO GIS worth? And to Whom? ," Portland METRO, Portland, OR, April 2000. (Invited)

### **Other Presentations and Lectures**

Tulloch, D. 2018. "History of Elizabeth through the Framework of Transportation," Elizabeth Forum 2018, The Historical Society of Elizabeth, New Jersey, May 2018. (Invited)

Tulloch, D. 2016. "Workshop: Leading Towards The Future," T. A. Edison Career Tech Academy, Elizabeth, NJ, March 2016. (Invited)

Tulloch, D. 2016. "Mapping a healthier future for Elizabeth," Rotary Club of Elizabeth, Elizabeth, NJ, March 2016. (Invited)

Tulloch, D. 2016. "Crossing boundaries with GIS," NJ County Planners Association, Lincroft, NJ, February 2016. (Invited)

Tulloch, D. 2016. "Geohealth Workshop: Mapping healthier communities," Admiral William Halsey Leadership Academy and John Dwyer Technology Academy, Elizabeth, NJ, January 2016. (Invited)

Tulloch, D. 2011. "Challenges of Mapping the Food Environments of New Jersey," Rutgers Department of Family and Community Health Sciences, March 2011. (Invited)

Tulloch, D. 2010. Discussant and Moderator, Film screening and discussion with filmmaker Maria Terezinha Vaz, "A Convenient Truth: Urban Solutions from Curitiba, Brazil" as part of Ecologies in the Balance in Latin American and the Caribbean: A Documentary Film Series, Rutgers Center for Latino Arts and Culture, March 2010. (Invited)

Tulloch, D. 2009. "Digital geospatial applications for classroom instruction," Presentation at OIRT Technology Fair, December 2009. (Invited)

Tulloch, D. 2008. "Google Earth and Google Map for Higher Education," Presentation at OIRT Technology Fair, December 2008. (Invited)

Tulloch, D. 1999. "What are the Costs and Benefits of GIS Adoption and Use," presented to the Open Space Workshop, organized by the Morris Land Conservancy, December 1999. (Invited)

Tulloch, D. 1999. "Messages from the Landscape: What Our Landscapes Tell Us, and What They Say About Us," Rutgers Alumni College, Winston-Salem, NC, 1999. (Invited)

### **K-12 Workshops**

GeoHealth Summer Workshop (developed and led), 1 week, Rutgers CRSSA, July 2017.

GeoHealth Summer Workshop (developed and led), 1 week, Rutgers CRSSA, July 2016.

4-H Science Saturday workshop, "How GIS can change your world," March 2010.

GeoHealth Summer Workshop (developed and led), 1 week, Rutgers CRSSA, August 2015.

GIScience and Human Health (developed and led), ½ day, Elizabeth High School, January 2015.



## **Conference Workshops**

Introductory workshop, D. Tulloch and B. Duffy, "New Tech Hacks for Environmental Data Gathering," Association of New Jersey Environmental Commissions Annual Congress, October 2015.

## **Specialist Meeting Presentations**

Tulloch, D. 2013. "Advancing the Spatially Enabled Smart Campus and Environmental Planning and Design," Specialist Meeting on Advancing the Spatially Enabled Smart Campus, December 2013, Santa Barbara CA. (Invited)

Tulloch, D. 2012. "A Design Perspective on Spatial Thinking" Specialist Meeting on Spatial Thinking across the College Curriculum, December 2012, Santa Barbara CA. (Invited)

Tulloch, D. 2007. "Finding the Seams in Volunteered Geographic Information," Specialist Meeting on Volunteered Geographic Information (Invited).

Tulloch, D. 2001. "Geospatial Data Access and Public Participation" Specialist Meeting on Participation and Access, Spoleto, Italy, December 2001.

Tulloch, D. 2001. "A New Jersey Perspective on Landscape Change," Workshop on Landscape Change, Santa Barbara, CA, January 2001.

Tulloch, D. 1998. "Environmental NGOs: Community Access to Technology as a Force for Change," PPGIS Specialist Meeting: Empowerment, Marginalization, and Public Participation GIS, Santa Barbara, CA, 1998.

## **Supported Participation in Specialist Meetings**

Specialist Meeting on Advancing the Spatially Enabled Smart Campus. 2013, Santa Barbara CA.

Specialist Meeting on Spatial Thinking across the College Curriculum. 2012, Santa Barbara CA.

Specialist Meeting on Volunteered Geographic Information. 2007, Santa Barbara CA.

Specialist Meeting on Participation and Access. 2001, Sponsored by NSF-ESF, Spoleto, Italy.

Specialist Meeting on Landscape Change. 2001, Santa Barbara CA.

Specialist Meeting on Public Participation GIS, 1999, Santa Barbara CA.

## **HONORS**

### **Honors and Awards**

2010 Council of Educators in Landscape Architecture Award for Research and Creative Work. 2010.

Academic Professional Excellence Award in Academic Innovation, School of Environmental and Biological Sciences. 2008.

Co-recipient. 2007 Northeast Extension Directors' Award of Excellence for 2007 New Jersey Equine Economic Impact Study.

Appalachian Trail 100-Hour Volunteer, National Park Service. 2004.

Young Scholar Award, Universities Consortium for Geographic Information Sciences. 2002.

### **Awards to Students**

1<sup>st</sup> Place Software Integration, 2<sup>nd</sup> Place Best Newbie. 2010 New Jersey Department of Environmental Protection Annual Mapping Contest, 14 Student team from 11:550:331 Intermediate Landscape Architecture (<http://www.state.nj.us/dep/gis/mapcon23.htm>)

2010 Merit Award in Analysis and Planning, NJASLA, "Vision Plan for the Stony Brook Millstone Watershed" given to 11:550:331 Intermediate Landscape Architecture I.

1<sup>st</sup> Place Newbie of the Year, 1<sup>st</sup> Place Software Integration, 1<sup>st</sup> Place Best Overall Non-DEP. 2009 New Jersey Department of Environmental Protection Annual Mapping Contest, 16 Student team from 11:550:331 Intermediate Landscape Architecture (<http://www.state.nj.us/dep/gis/mapcon22.htm>)

1<sup>st</sup> Place Most Unique. 2009 New Jersey Department of Environmental Protection Annual Mapping Contest, Ed Krafcik, April Maly, Diana Marino, Drew Siglin, Student team from 11:550:331 Intermediate Landscape Architecture (<http://www.state.nj.us/dep/gis/mapcon22.htm>)

1<sup>st</sup> Place Newbie of the Year, 2<sup>nd</sup> Place Most Unique, 2<sup>nd</sup> Place Best Overall Non-DEP. 2007 New Jersey Department of Environmental Protection Annual Mapping Contest, Student team from 11:372:462 Advanced Environmental Geomatics (<http://www.state.nj.us/dep/gis/mapcon20.htm>)

1<sup>st</sup> Place Newbie of the Year, 2<sup>nd</sup> Place Most Unique. 2006 New Jersey Department of Environmental Protection Annual Mapping Contest, Serkan Talip, Nicholas Laub, Dan Sgrizzi, Peter Kovac, David Gates, Student team from 11:372:462 Advanced Environmental Geomatics (<http://www.state.nj.us/dep/gis/mapcon19.htm>)

1<sup>st</sup> Place Best Newbie, 2<sup>nd</sup> Place Best Cartographic Design. 2005 New Jersey Department of Environmental Protection Annual Mapping Contest, Bill Millette, Steven Rainey, Shaughn Norton, Student team from 11:372:462 Advanced Environmental Geomatics (<http://www.state.nj.us/dep/gis/mapcon18.htm>)

2005 Merit Award in Analysis and Planning, NJASLA, "The AT at Bear Mountain; Inventory and Analysis" given to 11:550:331 Intermediate Landscape Architecture II.

Best Overall Map (Non-NJDEP), 2<sup>nd</sup> Place Most Unique, 2<sup>nd</sup> Place Best Newbie. 2003 New Jersey Department of Environmental Protection Annual Mapping Contest, Matt Jones, Tsz Ting Liu, Marina Lotarevich, Robert Martin, Brett Taylor, Alan Lee, Jeffrey Skinner, Student team from 11:550:332 Intermediate Landscape Architecture II, (<http://www.state.nj.us/dep/gis/mapcon16.htm>)

2<sup>nd</sup> Place. 2002 National Green Space Design Competition, Joann Diez, April Dewart, Tina Travers, Student team from 11:550:332 Intermediate Landscape Architecture II ([http://www.greenspacedesign.org/news\\_competition.html](http://www.greenspacedesign.org/news_competition.html)).

### **Recognition in news media**

"Getting Kids Walking, Biking to School Can Lead to Long-Term Fitness," US News and World Report, Sydney Murphy, 2022, (<https://www.usnews.com/news/health-news/articles/2022-09-09/getting-kids-walking-biking-to-school-can-lead-to-long-term-fitness>).

"Young NJ kids who walk, bike to school will continue as they age: study," Patrick Lavery, 2022, NJ 101.5 WKXW-FM (Ewing, NJ) (<https://nj1015.com/young-nj-kids-who-walk-bike-to-school-will-continue-as-they-age-study/>).

"Getting Kids Walking, Biking to School Can Lead to Long-Term Fitness," WebMD, 2022, <https://www.webmd.com/parenting/news/20220909/getting-kids-walking-biking-to-school-can-lead-to-long-term-fitness#1>.

"History of Elizabeth through the Framework of Transportation," Our City with Mayor Chris Bollwage, City of Elizabeth Public Access Television, May 2018.

"Using GIS Mapping and Spatial Thinking to Promote Health in the Urban Landscape," Office of Communications. 2017. *SEBS Newsroom* (<http://sebsnjaesnews.rutgers.edu/2017/04/using-gis-mapping-and-spatial-thinking-to-promote-health-in-the-urban-landscape/>)

"Edison, Halsey, and Dwyer Academies Students Complete Future Cities' Leadership Program," Sullivan, Fran. 2017. *Tap Into Elizabeth*. (<https://www.tapinto.net/towns/elizabeth/articles/edison-halsey-and-dwyer-academies-students-comp>)

"Rutgers GeoHealth Workshop Offered Students Mapping Tools to Promote its Broad Application to the Health Field," Office of Communications. 2016. *SEBS Newsroom* (<http://sebsnjaesnews.rutgers.edu/2015/09/rutgers-geohealth-workshop-offers-mapping-tools-to-promote-health/>).

"SEBS Prof. Participates in Research Study Mapping Availability of Female Condom in Philadelphia Area," Office of Communications. 2016. *SEBS Newsroom*. (<http://sebsnjaesnews.rutgers.edu/2016/05/sebs-prof-participates-in-research-study-mapping-availability-of-female-condom-in-philadelphia-area/>).

- "The Dirt on Blogging: How can blogs change the way we communicate about landscape architecture," Jost, Daniel. 2009. *Landscape Architecture Magazine* 99 (June) 6: 40-53.
- "Colleges Concerned for the Environment," Wahlers, Robert. 2008. Special Supplement to *the Star-Ledger*, 2/3/08, p. 34.
- "Researchers balance risks of continuous development," Coan, Andrea. 2008. *The Daily Targum*, 4/17/08, p. 3.
- "Landscape goes green, donates 10k: Cipriano Landscape Design gives two U. departments grants environmental students," Greenfest, Sara. 2008. *The Daily Targum*, 1/31/08, p. 1.
- "A guide to city's green side - Map of Elizabeth shows locations," Golson, Jennifer. 2006. *The Star-Ledger*, 5/10/06.
- "U. picks College Avenue Jury," Shure, Joseph. 2006. *The Daily Targum*, 1/23/06.
- "New Route for Hiking"- Malwitz, Rick. 2004. *The Home News Tribune*, p. B1, B3. 12/6/04.
- "Rutgers Students Lend a Hand to Nature"- Malwitz, Rick. 2004. *Courier News*, p. C3. 12/6/04.
- "Landscape Architecture Students Tackle Bear Mountain Trail Redesign"- Hujber, Michelle. 2004. *Rutgers Focus*, 12/6/04.
- "Getting Appalachian Trail Back on Track" - Cannon, G. 2004. *The Times Herald-Record*, p.12, 12/3/04.
- "Students Examine Appalachians"- Androvich, E. 2004. *The Daily Targum*, p. 1, 11/29/04.

## **SERVICE**

### **Service to the University Community (including the department)**

Chair, SEBS Honors Program Committee, 2021-present

Member, SEBS, Curriculum and Educational Policy Committee. 2021-present

Chair, S. E. B. S. Diversity, Communications, and Philanthropy Committee. 2016-2020

Member, SEBS Honors Program Committee, 2017-2020

Fellow, Rutgers Leadership Academy, 2017-2019.

Fellow, SEBS Honors Program, 2015-202

First-year Advisor, Landscape Architecture and Environmental Planning and Design, 2020-present

Member, GS-NB Dean's Evaluation Committee, 2015-2016

Chair of faculty mentoring committee for Richard Alomar. 2012-2017

Member, SEBS Planning Committee. 2013-2016

Member, Search Committee, SEBS Web design staff technician, 2014

Acting Graduate Director, Graduate Program in Landscape Architecture. 2013

Department of Landscape Architecture FCP Merit Raise Committee Chair 2010

Member, S. E. B. S., Committee for Educational Policy. 2003-2012

Member, S. E. B. S., Financial Aid Committee. 2007-2010

Chair, S. E. B. S., Financial Aid Committee. 2010-2011

Undergraduate Program Director for Environmental Planning and Geomatics. 2003-2011

Department of Landscape Architecture PEC Merit Raise Committee Chair 2008-2009

Developed and maintained Department of Landscape Architecture News and Alumni email list 2004-2010

Rutgers Delegate, the University Consortium for Geographic Information Sciences, 1998-present

Member, Cook College/S.E.B.S. Building and Grounds Committee. 2005-2008

Guided tour of landscape architecture on the National Mall, Rutgers alumni and summer interns for DC Chapter of RU Alumni Association and RU Federal Office. 2006-2009

Planned and led Rutgers Landscape Architecture Club hike, Manhattan Tip-to-Tip. 2008. 2010

Chair of faculty mentoring committee for Wolfram Hofer. 2006-2008

Chair of faculty mentoring committee for Allan Shearer. 2005-2009

Chair of faculty mentoring committee for Seiko Goto. 2006-2009

Member, Co-operative education transition team, S. E. B. S. 2008-2009

Faculty search committees, 11 positions 1999-2013

Planned and led Department Fall Field Trip ~20-40 students on four-day field trip 2000. 2002. 2003. 2005. 2007. 2009. 2010

Department of Landscape Architecture FASIP Merit Raise Committee Chair 2004-2007

Planned and led Rutgers University Outdoors Club hike, Brooklyn Tip-to-Tip. 2006

Faculty advisor to Sigma Lambda Alpha. 2002-2006

Planned and led Rutgers University Outdoors Club hike, Manhattan Tip-to-Tip. 2002-2005

Member, Cook College Committee on Teaching Effectiveness, Evaluation and Improvement. 2000-2005

Geography Graduate Admissions Committee. 2003

Faculty advisor to the LA Club/Student Chapter of the ASLA, 1998-2002

### **State & Public Community**

Board Member, Lower Raritan Watershed Partnership, 2017-present.

External Reviewer, New Jersey City University, Review of proposed undergraduate GIS major, 2019.

Higher Education Representative, Executive Committee, New Jersey Geospatial Forum, December 2016-2022. (Elected)

Trails Task Force, New Jersey Geospatial Forum, May 2018-present.

Interagency Team (IT) for the Passaic County Green Infrastructure, 2017-2018

GIS Technician Personnel Examination Author, NJ Department of Personnel. 2007.

NJ Landscape Project Peer Review Committee, NJ Department of Environmental Planning. 2005-present.

Board Member, Future City Inc, Elizabeth, NJ. 2005-2007.

### **Service to the Scientific and Professional Community**

Member, Editorial Board, Journal of Digital Landscape Architecture 2018-2021.

Landscape Architecture Accreditation Board Visiting Review Committee Leader, Illinois Institute of Technology, February 2019.

Landscape Architecture Accreditation Board Visiting Review Committee Leader, North Carolina A&T, November 2017.

UCGIS Representative, Coalition of Geospatial Organizations (COGO), 2016-present

Knowledge Area Editor, Body Of Knowledge Project, University Consortium for Geographic Information Science, 2016-present.

NSDI Leadership Forum, Washington DC, 2016.(Invited)

Jury, NJ ASLA Design Awards Jury, 2015-16.

Member, Advisory Board, Geodesign Graduate Program, Philadelphia University, 2016-2018

UCGIS Representative, COGO Board (Coalition of Geographic Organizations) 2016-present.

Member, Program Committee, CyberGIS '14, Redlands, CA, August 2014.

Landscape Architecture Accreditation Board Visiting Review Committee Leader, University of Illinois, March 2014.

Secretary, University Consortium for Geographic Information Science ([www.ucgis.org](http://www.ucgis.org)) 2014-2015.

Coordinator, Geodesign Consortium, 2013-2017.

Program Committee for AGILE 2013 (Association of Geographic Information Laboratories in Europe)

Landscape Architecture Accreditation Board Visiting Review Committee Leader, University of Connecticut, March 2012.

Chair of Workgroup on Geospatial Extension Specialist Agenda, University Consortium for Geographic Information Science ([www.ucgis.org](http://www.ucgis.org)) 2011.

Chair of Policy and Legislation, University Consortium for Geographic Information Science ([www.ucgis.org](http://www.ucgis.org)) 2009-2012.

Landscape Architecture Accreditation Board Visiting Review Committee Leader, Polytechnic University of Puerto Rico, May 2011.

Landscape Architecture Accreditation Board Visiting Review Committee Leader, Colorado State University, March 2010.

Invited Guest Critic, Landscape Architecture Design Studio, Robert Reich School of Landscape Architecture, Louisiana State University, October 2008.

Book Review Editor for URISA Journal 2004-2010.

Landscape Architecture Accreditation Board Visiting Review Committee Chair, Florida International University, March 2009.

Landscape Architecture Accreditation Board Visiting Review Committee Member, Iowa State University, November 2007.

NJ ASLA Chapter Initiative Project, NJ E-Scape Project Leader. 2006-2008

Board of Trustees for the Universities Consortium for Geographic Information Science ([www.ucgis.org](http://www.ucgis.org)) 2004-2007

Vice-Chair of Policy and Legislation for the Universities Consortium for Geographic Information Science ([www.ucgis.org](http://www.ucgis.org)) 2001-2004. 2008.

Nominating Committee Member for the Universities Consortium for Geographic Information Science ([www.ucgis.org](http://www.ucgis.org)) 2002-2004, committee chair 2004.

Peer review of journal manuscripts for *Landscape Journal*, *Landscape and Urban Planning*, *International Journal of Geographic Information Science*, *Transactions in GIS*, *URISA Journal*, *Journal of Soil and Water Conservation*, *GeoJournal*, *Geography Compass*, *Forest Science*, *International Journal of Spatial Data Infrastructure Research*, *AAG Annals*, *American Journal of Public Health*, *International Journal of E-Planning Research*.

DiBiase, D., M. DeMers, A. Johnson, K. Kemp, A. T. Luck, B. Plewe, E. Wentz (Eds.). 2006. *Geographic Information Science and Technology Body of Knowledge, 1<sup>st</sup> Ed.* University Consortium for Geographic Information Science. (Advisory Board)

External review of tenure materials for junior faculty in landscape architecture. 2006, 2017.

Proposal Reviewer for National Science Foundation, Army Research Office, and Federal Geographic Data Committee.



## **EDUCATION**

Ph.D. in Land Resources, University of Wisconsin-Madison, May 1997

Dissertation: A Theoretical Model of the Life Cycle of Community Multipurpose Land Information Systems Development, Advisor: Bernard J. Niemann, Jr.

M.L.A., Louisiana State University, May 1994

Thesis: Suitability Study Using a Multiple Objective Decision Model and Regional Planning Techniques, Advisor: Daniel Earle

B.S.L.A., University of Kentucky, May 1992

## **Teaching/Academic Experience**

Professor, Department of Landscape Architecture. 2019-present

Associate Professor, Department of Landscape Architecture. 2003-2019

Acting Graduate Program Director, Landscape Architecture. 2013

Undergraduate Program Director, Environmental Planning and Design. 2002-2011

Assistant Professor, Department of Landscape Architecture, 1997-2003

Associate Director for Program Development and GIS Applications Program Leader, Center for Remote Sensing and Spatial Analysis, Cook College, Rutgers University, 1997 - present

Graduate Faculty of Geography, 1997 - present

Graduate Research Assistant, Land Information and Computer Graphics Facility, University of Wisconsin - Madison, 1994 - 1997

Graduate Teaching Assistant, School of Landscape Architecture, Louisiana State University, 1992-1994

## **Professional Experience**

Research Consultant, National States Geographic Information Council, 1997

Assistant Planner, D. N. Young & Associates, Inc., Gonzales, LA, 1993-1994

AutoCAD Operator, Brown & Butler, Inc., Civil Engineers, Baton Rouge, LA, 1993

Assistant Landscape Architect, Scruggs and Hammond, Inc., Landscape Architects, Lexington, KY, 1988-1992

## **TEACHING ACTIVITIES**

### **Rutgers University Classes Taught (or co-taught)**

- 11:573:294 Interdisciplinary Honors Seminar: Making and Mapping our Communities Healthier
- 16:550:582 Research Methods in Landscape Architecture
- 16:550:532 Graduate Geodesign Studio
- 11:090:101 Byrne Seminar: Experiencing National Parks and Parklands
- 16:550:572 Colloquium in Landscape Architecture
- 16:550:545 Intro to Geomatics
- 11:550:331 Intermediate Landscape Architecture I (<http://jrstudio.rutgers.edu/>)
- 11:550:437 Summer Studio in Europe – Barcelona, Spain
- 11:550:332 Intermediate Landscape Architecture II
- 11:372:231 Fundamentals of Environmental Planning (<http://www.crssa.rutgers.edu/envplan/>)
- 01:450:625 Graduate Seminar: History of Geospatial Technologies
- 11:372:362 Intermediate Environmental Geomatics (<http://www.crssa.rutgers.edu/intgeo/>)
- 11:372:478 Vector Geomatics
- 11:372:462 Advanced Environmental Geomatics
- 11:015:425 Cook Junior/Senior Colloquium: Applications of Information Technology to Land Use Issues  
(<http://www.crssa.rutgers.edu/advgeo/>)

### **Professional Classes Taught**

- Fundamentals of Geomatics, Cook Continuing Education, Geomatics Professional Certificate Program, October/November 2004.
- Introduction to ArcView 8, Cook Continuing Education, Geomatics Professional Certificate Program, October/November 2003.
- Introduction to ArcView 8, Cook Continuing Education, Geomatics Professional Certificate Program, June 2003.
- Introduction to ArcView 8, Cook Continuing Education, Geomatics Professional Certificate Program, November 2002.
- Introduction to ArcView, Cook Continuing Education, Geomatics Professional Certificate Program, (Co-taught with Rowan and Wiggins), October 1999.

Introduction to ArcView, Cook Continuing Education, Geomatics Professional Certificate Program, (Co-taught with Rowan), February 1999.

Introduction to Geographic Information Systems Workshop, Annual Joint Meeting of the New Jersey State Mapping Advisory Committee and the Mid-Atlantic Chapter of the Urban Regional Information Systems Association, (Co-taught with Chris Perks) June 1998.

## **Programs Served**

SEBS General Honors Program

Landscape Architecture (SEBS Curriculum)

MLA program

BSLA Program

Environmental Planning and Design (SEBS Curriculum)

Landscape Industry (Undergraduate Option)

Environmental Planning (Undergraduate Option and Certificate)

Environmental Geomatics (Undergraduate Option and Certificate)

Geography (Graduate faculty member)

Geospatial Information Science (Graduate Certificate)