

JONATHAN L. GOODALL

Department of Civil and Environmental Engineering
University of South Carolina, 300 Main Street, Columbia, S.C. 29208, U.S.A
Phone: 803-777-8184 Fax: 803-777-0670 E-mail: goodall@cec.sc.edu

Education

- Ph.D., Civil Engineering, University of Texas at Austin** 8/2005
Advisor: David Maidment
Dissertation: A Geotemporal Framework for Hydrologic Analysis
- M.S., Civil Engineering, University of Texas at Austin** 5/2003
Advisor: David Maidment
Report: Spatiotemporal Trends of Benthic Biomass in the Western Arctic Ocean
- B.S., Civil Engineering, University of Virginia** 5/2001
Thesis: Accuracy Assessment of Digital Multispectral Videography Classification of Constructed Wetland Vegetation
Awarded with distinction

Experience

- University of South Carolina, Columbia, SC** 2007-Present
Assistant Professor, Civil and Environmental Engineering, 8/07-Present
- Duke University, Durham, NC** 2005-2007
Assistant Professor of the Practice, Nicholas School of the Environment, 7/05-7/07
Secondary Appointment, Civil and Environmental Engineering, 7/06-7/07
- University of Texas at Austin, Austin, TX** 2001-2005
Graduate Research Assistant, Center for Research in Water Resources, 8/01-7/05
Teaching Assistant, 2003
- VA Center for Transportation Innovation and Research, Charlottesville, VA** 1999-2001
Undergraduate Research Assistant, 3/99-5/01
- Coors Brewing Company, Elkton, VA** 2001
Wastewater Engineer (Internship), 5/01-8/01
- United States Public Health Service, Tucson, AZ** 2000
Water Resource Engineer (Internship), 5/00-8/00

Professional Affiliations and Registrations

- American Society of Civil Engineers (ASCE)
American Geophysical Union (AGU)
American Water Resources Association (AWRA)
Engineer in Training (Passed FE Exam in 2001)

Honors and Awards

National Science Foundation CAREER Award	2009
Best Paper, International Conference on Advanced GIS and Web Services	2009
The Ben D. Geeslin Endowed Presidential Scholarship, UT-Austin	2005
The David Burton, Jr. Graduate Fellowship, UT-Austin	2004
The Trigg and Fannie E. Twichell Endowed Presidential Scholarship, UT-Austin	2003
USGS Graduate Research Program Award, Texas Water Resources Institute	2003
Best Paper, Robert A. Marr, Jr. Paper Competition, ASCE Virginia's Conference	2001

Research Funding

Current Projects

- **DataNet Federation Consortium** 2011-2016
National Science Foundation, DataNet Program
Co-PI; PI R. Moore, UNC-Chapel Hill
Total Request: \$8M PI of USC Subaward: \$175,000
Grant #OCI-0940841, 09/01/2011 - 08/31/2016
- **Simulation of Integrated Urban Infrastructure Systems using Component-based Modeling** 2011-2014
National Science Foundation, Civil Infrastructure Systems Program
PI; Co-PIs Caicedo and Huynh, USC
Total Award: \$279,908
Grant # CMMI-1100227, 07/01/2011 - 06/30/2014
- **Using the Cloud to Model and Manage Large Watershed Systems** 2011-2013
National Science Foundation, Computing in the Cloud Program
PI; collaborative with UVA PI M. Humphrey
Total Award: \$319,984 USC Share: \$184,984
Grant # CCF-1048125, 04/15/2011 - 03/31/2013
- **CAREER: Integrated modeling for watershed management** 2009-2014
National Science Foundation, Environmental Engineering Program
PI
Total Award: \$408,042
Grant # CBET-0846244, 07/01/2009 - 06/30/2014
- **CUAHSI Hydrologic Information System** 2006-2011
National Science Foundation, Geoinformatics Program
Co-PI; PI D. Maidment, UT-Austin
Total Award: \$4.7M PI of USC Subaward: \$260,555
Grant # EAR-0622374, 06/01/2007 - 12/31/2012

Completed Projects

- **Development of a strategic plan for the Crane Creek Watershed** 2008-2009
Richland County, SC, Stormwater Management
PI; Co-PIs J. Flora and D. Tufford, USC

Total Award: \$27,535
Grant # 80014620000P, 03/01/2008 - 12/31/2009

- **Monitoring needs and impact assessment study** 2008
Richland County, South Carolina
Co-PI; PI J. Flora, USC
Total Award: \$24,643
Grant # 80011410000B, 11/26/2007 - 06/30/2008
- **Workshop for coordination of OpenMI and HIS development** 2008
National Science Foundation, Hydrologic Science Program
PI; Co-PI R. Hooper, CUAHSI
Total Award: \$19,306
- **Southern Center on Environmentally-Driven Disparities in Birth Outcomes** 2007-2011
Duke University/EPA
Investigator; PI: M. Miranda, Duke
Total Award: \$7.7M USC Subaward: \$22,083
Grant # RD-83329301-0, 05/01/2007 - 04/30/2009
Participated in first two project years.
- **Cyberinfrastructure to support real-time hydrologic modeling** 2007-2010
University of North Carolina - Chapel Hill/Microsoft Research
Co-PI; PI J. McGee, RENCI
Total Award: \$2M USC Subaward: \$66,976
Grant # 5-58282, 03/01/2008 - 06/30/2011
- **Using Bayesian Networks for Adaptive Management of Watershed/Estuarine Systems** Duke University/NIH 2007-2009
Co-PI; PI K. Reckhow, Duke
Total Award: \$247,574 USC Subaward: \$17,575
Grant # 08-SC-NIH-1041, 05/31/2007 - 03/31/2008
- **Assessment of U.S. habitat and provision of ecosystem services** 2006-2007
Doris Duke Foundation
Co-PI; PI D. Urban, Duke
Total Award: \$190,730
- **Superfund supplement project for activities in areas hardest hit by the hurricanes Katrina and Rita** 2006-2007
National Institute for Environmental Health Science
Co-PI; PI M.L. Miranda, Duke
Total Award: \$148,347
- **Web services for exposing hydrologic time series databases** 2006
Microsoft Research
PI
Total Award: \$49,500
- **Designing a flood forecasting management system for North Carolina** 2006
Renaissance Computing Institute, University of North Carolina Chapel Hill
PI
Total Award: \$20,000

- **Applications of network models and graph theory to hydrologic restoration of a modified landscape**

2006

The Nature Conservancy
Co-PI; PI B. Poulter, Duke
Total Award: \$29,025

Publications and Presentations

* denotes a student advisee

Manuscripts under Review or Revision

1. Peckham, S. D. and J. L. Goodall, Driving plug-and-play models with data from web services: A demonstration of interoperability between CSDMS and CUAHSI-HIS, *Computers and Geosciences*, In Revision.
2. Castronova*, A. M., J. L. Goodall, and M. Ercan*, Hydromodeler: A prototype software system for integrated environmental modeling, *Environmental Modelling & Software*, In Revision.
3. Alam*, M. J. and J. L. Goodall, Disentangling the effect of hydrologic and nitrogen source variability on instream nitrogen loading in the contiguous United States between 1992 and 2001, *Water Resources Research*, In Revision.
4. Castronova*, A. M. and J. L. Goodall, Simulating watersheds using loosely integrated model components: Evaluation of computational scaling, *Environmental Modelling & Software*, In Revision.

Journal Papers in Print or Press

1. Elag*, M. and J. L. Goodall, Feedback loops and temporal misalignment in component-based hydrologic modeling, *Water Resources Research*, In Press, doi:10.1029/2011WR010792, 2011.
2. Billah*, M. M. and J. L. Goodall, Annual and interannual variations in terrestrial water storage during and following a period of drought in South Carolina, USA, *Journal of Hydrology*, 409(1-2), 472-482, doi:10.1016/j.jhydrol.2011.08.045, 2011.
3. Goodall, J. L., B. F. Robinson, and A. M. Castronova*, Modeling water resource systems using a service-oriented computing paradigm, *Environmental Modelling & Software*, 26(5), 573-582, doi:10.1016/j.envsoft.2010.11.013, 2011.
4. Goodall, J. L., J. P. Fay, and D. L. Bollinger*, Jr., A software library for quantifying regional-scale nitrogen transport within river basin systems, *Environmental Modelling & Software*, 25(12), 1713-1721, doi:10.1016/j.envsoft.2010.04.007, 2010.
5. Shatnawi*, F. M. and J. L. Goodall, Comparison of flood top width predictions using surveyed and LiDAR-derived channel geometries, *Journal of Hydrologic Engineering (ASCE)*, 15(2), 97-106, doi:10.1061/(ASCE)HE.1943-5584.0000161, 2010.
6. Castronova*, A. M. and J. L. Goodall, A generic approach for developing process-level hydrologic modeling components, *Environmental Modelling & Software*, 25(7), 819-825, doi:10.1016/j.envsoft.2010.01.003, 2010.
7. Goodall, J. L. and D. R. Maidment, A spatiotemporal data model for river basin-scale hydrologic systems, *International Journal of Geographical Information Science*, 23(2), 233-247, doi:10.1080/13658810802032193, 2009.

8. Poulter, B., J. L. Goodall, and P. H. Halpin, Applications of network analysis for adaptive management of artificial drainage systems in landscapes vulnerable to sea level rise, *Journal of Hydrology*, 357(3-4), 207-217, doi:10.1016/j.jhydrol.2008.05.022, 2008.
9. Goodall, J. L., J. S. Horsburgh, T. L. Whiteaker, D. R. Maidment, and I. Zaslavsky, A first approach to web services for the National Water Information System, *Environmental Modelling & Software*, 23(4), 404-411, doi:10.1016/j.envsoft.2007.01.005, 2008.
10. Whiteaker, T. L., D. R. Maidment, J. L. Goodall, and M. Takamatsu, Integrating Arc Hydro features with a schematic network, *Transactions in GIS*, 10(2), 219-237, doi:10.1111/j.1467-9671.2006.00254.x, 2006.
11. Dunton, K. H., J. L. Goodall, S. V. Schonberg, J. M. Grebmeier, and D. R. Maidment, Multi-decadal synthesis of benthic pelagic coupling in the western arctic: Role of cross-shelf advective processes, *Deep Sea Research Part II: Topical Studies in Oceanography*, 52(24-26), 3462-3477, doi:10.1016/j.dsr2.2005.09.007, 2005.

Conference Proceeding Articles

1. Piasecki, M., D. Ames, J. L. Goodall, R. Hooper, J. Horsburgh, D. Maidment, D. Tarboton, and I. Zaslavsky, Development of an information system for the hydrologic community, in *Proceedings of the 9th International Conference on Hydroinformatics*, Tianjin, China, 2010.
2. Goodall, J. L., M. Elag*, and A. M. Castronova*, Component-based modeling of watershed systems, in *Proceedings of the 2010 Watershed Management Conference: Innovations in Watershed Management Under Land Use and Climate Change*, pages 1167–1178, American Society of Civil Engineers, Madison, Wisconsin, 2010, doi:10.1061/41148(389)105.
3. Tarboton, D. G., J. S. Horsburgh, D. R. Maidment, T. L. Whiteaker, I. Zaslavsky, M. Piasecki, J. L. Goodall, D. Valentine, and T. Whitenack, Development of a community hydrologic information system, in *Proceedings of the 18th World IMACS / MODSIM Congress*, Cairns, Australia, 2009.
4. Beran, B., J. L. Goodall, D. Valentine, I. Zaslavsky, and M. Piasecki, Standardizing access to hydrologic data repositories through web services, in *Proceedings of the 2009 International Conference on Advanced Geographic Information Systems & Web Services*, pages 64–67, Cancun, Mexico, 2009, doi:10.1109/GEOWS.2009.27.
5. Ames, D. P., J. S. Horsburgh, J. L. Goodall, T. L. Whiteaker, D. G. Tarboton, and D. R. Maidment, Introducing the open source CUAHSI Hydrologic Information System desktop application (HIS Desktop), in *Proceedings of the 18th World IMACS / MODSIM Congress*, Cairns, Australia, 2009.
6. Anderson, R. M. and J. L. Goodall, Regionalization of IHACRES model parameters for integrated assessment across the Lake Erie, northern Ohio basin USA, in *Proceedings of the 3rd Biennial Meeting of the International Environmental Modeling and Software Society (iEMSs)*, Burlington, Vermont, 2006.
7. Goodall, J. L., D. Valentine, and D. R. Maidment, Exposing hydrologic databases using web services, in *Proceedings of the 7th International Conference on HydroScience and Engineering*, Philadelphia, Pennsylvania, 2006.
8. Goodall, J. L., D. R. Maidment, and J. Sorenson, Representation of spatial and temporal data in ArcGIS, in Lanfear, K. J. and D. R. Maidment, editors, *Proceedings of the 2004 AWRA Spring Conference: GIS and Water Resources III*, American Water Resource Association, Nashville, TN, 2004.

9. Sorenson, J., J. L. Goodall, and D. R. Maidment, Arc Hydro time series framework for defining hydroperiod inundation, in Lanfear, K. J. and D. R. Maidment, editors, *Proceedings of the 2004 AWRA Spring Conference: GIS and Water Resources III*, American Water Resource Association, Nashville, Tennessee, 2004.
10. Patino, C., D. C. McKinney, D. R. Maidment, J. L. Goodall, P. Martinez, J. M. Hinojosa, and V. Quezada, Water Management Information System for the Rio Bravo/Grande basin: Creation of a georeferenced data base, in *Proceedings of the 2nd International Symposium on Transboundary Waters Management*, Tucson, Arizona, 2004.

Book Chapters

1. Syvitski, J. P. M., S. P. Peckham, O. David, J. L. Goodall, C. DeLuca, and G. Theurich, Cyberinfrastructure and community environmental modeling, in Fernando, H. J. S., editor, *Handbook in Environmental Fluid Dynamics*, Taylor and Francis, *In Press*.

Conference Presentations

1. Tarboton, D. G., D. R. Maidment, I. Zaslavsky, D. P. Ames; J. L. Goodall, R. P. Hooper, and J. S. Horsburgh, The CUAHSI Community Hydrologic Information System (Invited), Abstract IN53D-07 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec., 2011.
2. Alam*, M. J. and J. L. Goodall, The effects of climate change on instream nitrogen transport in the contiguous United States, Abstract H43B-1201 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec., 2011.
3. Billah*, M. M. and J. L. Goodall, Impacts of evapotranspiration estimates on annual and interannual terrestrial water storage variations in South Carolina, USA, Abstract H43B-1206 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec., 2011.
4. Castronova*, A. M. and J. L. Goodall, A Service Oriented Approach to Modeling Interdisciplinary Environmental Systems, Abstract IN33A-1458 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec., 2011.
5. Elag*, M. and J. L. Goodall, Simulation of Watershed Systems Using Component-Based Models, Abstract IN33A-1455 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec., 2011.
6. Ercan*, M. B. and J. L. Goodall, Estimating Precipitation Input to a Watershed by Combining Gauge and Radar Derived Observations, Abstract H41G-1142 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec., 2011.
7. Horsburgh, J. S., D. G. Tarboton, D. R. Maidment, I. Zaslavsky, D. P. Ames, J. L. Goodall, and R. P. Hooper, Advancing a Services Oriented Architecture for sharing hydrologic data, Vol. 13, EGU2011-5312 presented at the 2011 General Assembly, EGU, Vienna, Austria, 03-08 Apr., 2011.
8. Ames, D. P., J. Kadlec, Y. Cao, D. Grover, J. S. Horsburgh, T. Whiteaker, J. L. Goodall, and D. W. Valentine, HydroDesktop: An open source GIS-based platform for hydrologic data discovery, visualization, and analysis, Abstract H43B-1236 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec., 2010.
9. Goodall, J. L., A. M. Castronova*, M. Elag*, and M. Ercan*, An integrated modeling environment within the CUAHSI Hydrologic Information System, Abstract H43B-1237 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec., 2010.

10. Goodall, J. L. and M. M. Billah*, Synthesizing data to estimate terrestrial water storage trends in South Carolina from 1998-2007, *South Carolina Water Resources Conference*, Columbia, SC, 2010.
11. Alam*, M. J. and J. L. Goodall, Quantifying the impact of land use change on non-point source nitrogen loading to streams in the Contiguous United States, *AWRA GIS and Water Resources VI*, Orlando, FL, 2010.
12. Qian, S. and J. L. Goodall, Bayesian SPARROW for understanding the dynamic changes in nutrient loadings, *AWRA GIS and Water Resources VI*, Orlando, FL, 2010.
13. Goodall, J. L., A. M. Castronova*, and D. P. Ames, HydroModeler: A modeling plug-in for the CUAHSI HIS HydroDesktop application, *AWRA GIS and Water Resources VI*, Orlando, FL, 2010.
14. Tarboton, D., D. R. Maidment, I. Zaslavsky, J. S. Horsburgh, T. Whiteaker, M. Piasecki, J. L. Goodall, D. Valentine, and T. Whitenack, Sharing hydrologic data with the CUAHSI Hydrologic Information System, *AWRA GIS and Water Resources VI*, Orlando, FL, 2010.
15. Castronova*, A. M. and J. L. Goodall, Comparing tightly coupled and loosely coupled paradigms for modeling hydrologic systems, *Eos Trans. AGU, 90(52), Fall Meet. Suppl.*, Abstract IN11A-1043, 2009.
16. Billah*, M. M. and J. L. Goodall, Seasonal and annual trends in terrestrial water storage in South Carolina watersheds, *Eos Trans. AGU, 90(52), Fall Meet. Suppl.*, Abstract H51H-0864, 2009.
17. Kirschtel, D., D. R. Maidment, I. Zaslavsky, D. G. Tarboton, J. L. Goodall, M. Piasecki, and R. Hooper, CUAHSI Water Data Services: Service oriented architecture for water resources data, *North American Benthological Society*, Grand Rapids, MI, 2009.
18. Whiteaker, T., D. R. Maidment, D. Tarboton, I. Zaslavsky, and J. L. Goodall, The CUAHSI Hydrologic Information System, *ESRI International User Conference*, San Diego, CA, 2009.
19. Goodall, J. L. and A. M. Castronova*, Modeling within a digital watershed context, *South Carolina Conference on Water Resources*, Charleston, SC, 2009.
20. Goodall, J. L., A. M. Castronova*, and F. M. Shatnawi*, Water resources modeling using OpenMI-based web services, *AWRA GIS and Water Resources V*, San Mateo, CA, 2008.
21. Shatnawi*, F. M., J. L. Goodall, and A. M. Castronova*, Development of a flood forecasting system for North Carolina: Challenges in large-scale model parameterization and linking, *AWRA GIS and Water Resources V*, San Mateo, CA, 2008.
22. Goodall, J. L., Hydrologic modeling within a service oriented architecture, *Eos Trans. AGU, 89(53), Fall Meet. Suppl.*, Abstract H41G-0963, 2008.
23. Alam*, M. J. and J. L. Goodall, Impact of urbanization on regional-scale nitrogen transport, *Eos Trans. AGU, 89(53), Fall Meet. Suppl.*, Abstract H21H-0936, 2008.
24. Castronova*, A. M. and J. L. Goodall, Design and implementation of a simple model interface for component based modeling, *Eos Trans. AGU, 89(53), Fall Meet. Suppl.*, Abstract H41G-0961, 2008.
25. Goodall, J. L., B. Robinson, and A. M. Castronova*, Linking data and models: the OpenMI approach, *Eos Trans. AGU, 88(52), Fall Meet. Suppl.*, Abstract H13H-1682, 2007.
26. Goodall, J. L. and S. S. Qian, River basin scale water-quality modeling using the CUAHSI Hydrologic Information System, *Microsoft Workshop on eScience*, Baltimore, MD, 2006.
27. Goodall, J. L., Sharing hydrologic information using web services, *AWRA GIS and Water Resources IV*, Houston, TX, 2006.

28. Miranda, M. L., B. Anderson, M. Avakian, M. Ellisman, M. Golden, J. L. Goodall, A. Lin, L. Ormsbee, K. Pezzoli, A. Hull, W. Suk, R. Tukey, C. Thompson, and B. Wheaton, NIEHS Hurricane Response Portal, *American Public Health Association Annual Meeting*, Boston, MA, 2006.
29. Goodall, J. L. and S. S. Qian, Exposing the national water information system to gis through web services, *Microsoft Workshop on eScience*, Redmond, WA, 2005.
30. Goodall, J. L. and D. R. Maidment, Interoperability between hydrologic and atmospheric sciences, *Eos Trans. AGU*, 85(47), *Fall Meet. Suppl.*, Abstract SF42A-04, 2004.
31. Zoun, R., D. R. Maidment, and J. L. Goodall, GIS as a tool for assisting TMDL development, *ESRI International User Conference*, San Diego, CA, 2003.

Reports

1. Goodall, J. L., D. G. Tarboton, S. D. Peckham, and R. Hooper, New software architecture for integrated water modeling (meeting report), *Eos Trans. AGU*, 89(43), doi:10.1029/2008EO430005, 2008.
2. Goodall, J. L. and D. R. Maidment, A geotemporal framework for hydrologic analysis, *Center for Research in Water Resources, University of Texas at Austin*, CRWR Online Report 05-8, 2005.
3. Goodall, J. L., D. R. Maidment, and K. H. Dunton, Spatial and temporal trends of the Western Arctic Ocean benthic community, *Center for Research in Water Resources, The University of Texas at Austin*, CRWR Online Report 03-1, 2003.
4. Fitch, G. M., J. E. Anderson, S. A. Ridout, and J. L. Goodall, Integration of multiband imagery as a means of monitoring wetland resources, *the Virginia Department of Transportation*, VTRC Report 03-CR19, 2003.

Invited Presentations at Meetings, Seminars and Workshops

1. Bureau of Water, South Carolina Dept. of Health & Environmental Control, 2011
2. Federal Interagency Steering Committee on Multimedia Environmental Modeling Meeting, 2011
3. CUAHSI HIS Cyber Seminar Series, 2011
4. Community Surface Dynamics Modeling System Meeting, UC-Boulder, 2011
5. Microsoft Research Cloud Computing Workshop, 2011
6. CUAHSI Community Hydrologic Modeling Platform Workshop, UC-Irvine, 2011
7. Virginia Tech, Department of Civil and Environmental Engineering, 2011
8. Southeastern States Water Resources Planning & Management Forum, 2009
9. University of Georgia, Warnell School of Forestry and Natural Resources, 2009
10. Federal Interagency Steering Committee on Multimedia Environmental Modeling Meeting, 2009
11. University of South Carolina, Department of Geology, 2008
12. CUAHSI Community Hydrologic Modeling Platform Workshop, 2008
13. University of South Carolina, Department of Geography, 2007
14. University of Missouri, Department of Geography, 2007

15. University of Nebraska, Department of Civil and Environmental Engineering, 2007
16. University at Buffalo, Department of Geography, 2006
17. Microsoft Research, eScience Workshop, 2006
18. University of Virginia, Department of Civil and Environmental Engineering, 2006
19. Duke University, Department of Civil and Environmental Engineering, 2006
20. United States Geologic Survey, Raleigh, NC, 2006
21. Duke University, Nicholas School of the Environment, 2005

Teaching and Student Advisement

Courses Taught

University of South Carolina

Systems Analysis for Civil Engineering, Senior-level	Fall 2011
Advanced Hydrology, Graduate-level	Spr. 2011
Computational Methods for Civil Engineering, Sophomore-level	Spr. 2011
Systems Analysis for Civil Engineering, Senior-level	Fall 2010
Systems Analysis for Civil Engineering, Senior-level	Spr. 2010
Advanced Hydrology, Graduate-level	Fall 2009
Systems Analysis for Civil Engineering, Senior-level	Spr. 2009
Computational Methods for Civil Engineering, Sophomore-level	Fall 2008
GIS for Hydrologic Systems Analysis, Graduate-level	Spr. 2008
GIS for Civil Engineering, Graduate-level	Fall 2007

Duke University

Introduction to Geospatial Analysis, Senior-level	Spr. 2007
Geospatial Analysis for Watershed Management, Graduate-level	Spr. 2007
Advanced Geospatial Analysis, Graduate-level	Fall 2006
Advanced Geospatial Analysis, Graduate-level	Spr. 2006
Geospatial Analysis for Watershed Management, Graduate-level	Spr. 2006
Introduction to Geospatial Analysis (co-taught), Graduate-level	Fall 2005

Doctoral Student - Major Adviser

Current

Mehmet Ercan, Ph.D. student	2011-Present
Mostafa Elag, Ph.D. candidate (passed qualifying exam)	2010-Present
Mirza Billah, Ph.D. candidate (passed qualifying exam)	2009-Present
Md. Jahangir Alam, Ph.D. candidate (passed qualifying exam)	2008-Present
Fadi Shatnawi, Ph.D. candidate (passed qualifying exam)	2007-Present
Anthony Castronova, Ph.D. candidate (defended proposal, expected to graduate 5/2012)	2007-Present

Completed

None

Master's Student - Major Advisor

Current

Matt Ricks 2010-Present

Completed

Anthony Castronova, M.S. 2011
Mehmet Ercan, M.S. 2011
Md. Jahangir Alam, M.E. 2011
Robie Anson, M.E.M., Duke 2007
Christine Cope, M.E.M., Duke 2007
David Bollinger, M.E.M., Duke 2007

Undergraduate Student Research Advisement

Ben Felton, Undergraduate Research Assistant 2011-Present
Robert Boykin, Undergraduate Research Assistant 2011-Present
Ryan Hall, Magellan Scholar, Independent Study and Undergrad. Research Asst. 2010-Present
Brian Mitchell, Undergraduate Research Assistant 2010
Shirani Fuller, Independent Study and Undergraduate Research Assistant 2010
Josh Jordan, Independent Study and Undergraduate Research Assistant 2008
Adam Wong, Undergraduate Research Assistant 2008
Jonathan Chandler, Undergraduate Research Assistant 2007

Member of Dissertation or Thesis Committee Member

Kevin MacLeod, M.S. in Geography, USC 2011-Present
Hesham Ezz, Ph.D. in Civil Engineering, USC 2008-Present
Mohamed Elkholy, Ph.D. in Civil Engineering, USC 2011
Sherif Abdelgawad, Ph.D. in Civil Engineering, USC 2011
Bo Lu, Ph.D. in Civil Engineering, Drexel University 2011
Ibrahim Alameddine, Ph.D. in Environment Science, Duke University 2011
Quyen Pham, M.S. in Civil Engineering, USC 2011
Omor Sharif, M.S. in Civil Engineering, USC 2011
Thomas Knight, M.S. in Civil Engineering 2010
Rahul Kanwar, M.S. in Geological Science, USC 2009

Awards and Honors to Students

Deepal S. Eliatamby Graduate Student Scholarship, USC, Md. Alam 2011
Honorable Mention, USC Graduate Student Day Poster Session, Mehmet Ercan 2011
Magellan Scholarship, USC, Ryan Hall 2011
2nd Place, USC Graduate Student Day Poster Session, Mirza Billah 2010
1st Place, USC Graduate Student Day Poster Session, Md. Jahangir Alam 2009
Deepal S. Eliatamby Graduate Student Scholarship, USC, Anthony Castronova 2008

Service

To the Profession

Editorships

Associate Editor, ASCE Journal of Computing in Civil Engineering 2010-Present

Committee Appointments

University Co-Representative, CUAHSI 2011-Present

Chair, CSDMS Hydrology Focus Research Group 2010-Present

Member, ASCE Surface Water Hydrology Committee 2010-Present

Member, AGU Hydrology Section Surface Water Technical Committee 2010-Present

Conference and Workshop Organizing

Member, AWRA GIS and Water Resources VI Conference Technical Committee 2010

Co-Organizer, CUAHSI HIS Workshop, Boulder, CO 2010

Co-Organizer, CUAHSI Workshop on Integrated Modeling, Wallingford, England 2008

Session Co-Convener, AGU Fall Meeting 2008-2010

Reviewing

Panelist, NSF Civil Infrastructure Systems Program

Ad-hoc Reviewer, NSF Centers of Research Excellence in Science and Technology Program

External Reviewer, USDOE Project

Panelist, NSF Cyber-enabled Discovery and Innovation (CDI) Program

Panelist, SC Department of Health and Environmental Control EPA 319 Grant Program

Ad-Hoc Reviewer, NSF Hydrologic Program

Ad-Hoc Reviewer, NSF Environmental Sustainability Program

External Reviewer, USEPA NACEPT White Paper

Reviewer for approximately a dozen journals including: *Journal of Hydrology*, *Journal of Hydrologic Engineering*, *Environmental Modelling & Software*, *Environmental Science & Technology*, and *Journal of Water Resources Planning and Management*

To the University

University of South Carolina

Member, Faculty Search Committee, CEE Department 2010-2011

Judge, Graduate Student Day Oral Presentation Competition, USC 2010

Member, Graduate Program Committee, CEE Department 2009-Present

Member, Scholarship Committee, CEE Department 2008-Present

Member, Library Committee, CEE Department 2008-2009

Judge, Graduate Student Day Oral Presentation Competition, USC 2008

Duke University

Member, Information Technology Advisory Committee, Nicholas School 2005-2007

Member, Geospatial Analysis Faculty Search Committee, Nicholas School 2006

Last updated: November 2011