

Tim Whiteaker

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Education

The University of Texas at Austin

Doctor of Philosophy, Civil Engineering, May 2004

Overall GPA: 4.00/4.00

The University of Texas at Austin

Master of Science in Engineering, Environmental and Water Resources
Engineering, August 2001

Overall GPA: 4.00/4.00

Tennessee Technological University

Bachelor of Science, Civil and Environmental Engineering, May 1999

Overall GPA: 3.98/4.00

Dissertation

Geographically Integrated Hydrologic Modeling Systems

Dr. David R. Maidment, Supervising Professor

Research Interests

- Geographic Information Systems (GIS) in water resources engineering
- Hydrologic, hydraulic, and water quality modeling

Research Experience

- 10/2006 – present, Research Associate, The University of Texas at Austin
- 08/2004 – 09/2006, Postdoctoral Fellow, The University of Texas at Austin
- 08/2000 – 05/2004, Graduate Research Assistant, The University of Texas at Austin

Professional Experience

- 07/2001 - 08/2001, Professional Services Intern, Environmental Systems Research Institute, Inc. (ESRI)

Publications

- Whiteaker, Tim, et al. (2006) "From a NEXRAD Rainfall Map to a Flood Inundation Map", *Journal of Hydrologic Engineering*, Vol. 11 (1), pp. 37-45
- Whiteaker, Tim, et al. (2006) "Integrating Arc Hydro Features with a Schematic Network", *Transactions in GIS*, Vol. 10 (2), pp. 219-237
- Whiteaker, Tim, et al. (2007) "Raster-Network Regionalization for Watershed Data Processing", *International Journal of GIS*, Vol. 21 (3), pp. 341-343
- Goodall, J.L., J. Horsborough, T.L. Whiteaker, D.R. Maidment, and I. Zavlasky. (2007) "Web services for the National Water Information System", *Environmental Modelling & Software*, In Press.

Presentations

- **Whiteaker, Tim**, "Avenue to VB: Migrating a Geological Database to ArcGIS," presented at the 2005 ESRI User Conference
- Gopalan, Hema, **T. Whiteaker** and D. Maidment, "Determining Watershed Parameters Using Arc Hydro," presented at the 2003 ESRI User Conference
- **Whiteaker, Tim**, et al., "TIWSS (Texas Integrated Water Simulation System)," presented at the Texas Section ASCE Fall 2002 Meeting

Honors and Awards

- Texas Section ASCE Hawley Memorial Fellowship
- UT College of Engineering Graduate Fellowship
- Outstanding Honors Student of the Year
- National Dean's List
- President of Associated Scholars Guild
- Chairperson of Honors Council