

Provided through the gracious contribution of Dr. Hatim Sharif

VITAE Hatim Sharif – PI

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Professional Preparation

University of Connecticut	Ph. D.	Environmental Engineering, 2001
Colorado State University	M. S.	Civil Engineering, 1996
University of Khartoum	B. S.	Civil Engineering, 1984

Professional Appointments

August 2005 - Present: Assistant Professor, Department of Civil & Environmental Engineering, University of Texas at San Antonio
July 2004 – July 2005: Research Staff, Program in Atmospheric and Oceanic Sciences, Princeton University
February 2004 – August 2005: Scientist, University of California Berkeley, Earth Sciences Division, Berkeley National Laboratory
January 2002 – January 2004: Fellow, Advanced Study Program Postdoctoral, National Center for Atmospheric Research
August 2001 - December 2001: Adjunct Professor, Department of Civil & Environmental Engineering, University of Connecticut
January 1997 - December 2001: Research Assistant, Department of Civil & Environmental Engineering, University of Connecticut
January 1993 - December 1996: Graduate Research Student, Department of Civil Engineering, Colorado State University

Synergistic Activities

Panel reviewer for NSF GRFP programs
Ad-hoc reviewer of proposals submitted for funding to NSF and other federal and international agencies and institutions

Memberships in Scholarly Societies:

American Geophysical Union
American Meteorological Society
American Society of Civil Engineers
American Society of Engineering Education

Specific Activities:

Reviewer of articles submitted for possible publication in Water Resources Research, Journal of Hydrometeorology, Journal of Applied Meteorology and Climatology, Weather and Forecasting, Journal of Theoretical and Applied Climatology, ASCE Journal of Hydrologic Engineering, Civil Engineering and Environmental Systems, Sensors, Journal of Environmental Modeling and Assessment, Stochastic Environmental Research and Risk Assessment, and ASCE Journal of Irrigation and Drainage Engineering

Participated in the activities of Hydrologic Information Systems (HIS) subcommittee of the Consortium of Universities for the Advancements of Hydrologic Science Incorporated (CUAHSI) and I am one of the authors of the CUAHSI/HIS white paper presented to NSF

Recent Invited Seminars

"Hydrometeorological Research in Arid and Semi-arid Regions" at Massachusetts Institute of technology, Boston, MA, May 2009

"Flood Modeling in South Central Texas", at the University of Texas, Austin, TX, October 2008

"Precipitation and Flood Forecasting", at Texas A&M University, College Station, TX, February 2007

"Distributed Modeling and Flash Flood Forecasting Example" at the San Antonio River Authority, San Antonio, TX, September 2006

"A Distributed Model Example" at the COMET Advanced Hydrologic Sciences Course 06-1 at the National Center for Atmospheric Research, Boulder, Colorado, June 2006

"Flash Flood Forecasting in an Urban Watershed" at the Austin/San Antonio National Weather Service Office, New Braunfels, TX, January 2006

Publications Related to the Proposed Project

Sharif, H. O. and F. L. Ogden, 2009: On the remapping of radar data onto Cartesian coordinates. Submitted to *Journal of Applied Meteorology and Climatology*.

Sharif, H. O., A. Elhassan, X. Wang, J. Zeitler, and H. Xie, 2009: Hydrometeorological Analysis of the 2004 Guadalupe River Flood, TX. Accepted by *J. American Water Resources Association*.

Sharif, H. O., L. Sparks, A. A. Hassan, X. Wang, J. Zeitler, and H. Xie, 2009: Hydrologic Analysis of the 2004 Flood of Bull Creek Watershed, Austin, Texas. Accepted by *J. of Hydrologic engineering*.

Sharif, H. O., D. Yates, R. Roberts, and C. Mueller, "The Use of an Automated Now-Casting System to Forecast Flash Floods in an Urban Watershed", *J. of Hydrometeorology*, doi: 10.1175/JHM482.1, 2006

Sharif, H. O., W. T. Crow, N. L. Miller, and E. F. Wood, 2007: Multi-decadal High-resolution Hydrological Modeling of the Arkansas/Red River Basin. *J. of Hydrometeorology*, doi: 10.1175/JHM622.1

Other Significant Publications

Wang, X., H. Xie, **H. O. Sharif**, and J. Zeitler, 2008: Comparison of NEXRAD MPE and Stage III precipitation products at the Upper Guadalupe River basin, Texas Hill Country. *J. of Hydrology*, Vol. 348/1-2 pp 73-86 DOI information: 10.1016/j.jhydrol.2007.09.057

Crow, W. T., R. D. Koster, R. H. Reichle, and **H. O. Sharif**, 2005: Relevance of time-varying and time-invariant retrieval error sources for the Spaceborne detection of soil moisture anomalies. *Geophysical Research Letters*, 32, L24405, doi:10.1029/2005GL024889

Sharif, H. O., F. L. Ogden, W. F. Krajewski, and M. Xue, 2004: Statistical Analysis of Radar-rainfall Error Propagation. *J. of Hydrometeorology*, 5 (1), 199-212

Sharif, H. O., F. L. Ogden, W. F. Krajewski, and M. Xue, "Numerical Simulations of Radar-rainfall Error Propagation", *Water Resources Research*, 38(8), doi: 10.1029/2001WR000525, 2002

Ogden, F. L., **H. O. Sharif**, S. Senarath, J. Smith, M. L. Baeck, and J. Richardson, "Hydrologic Analysis of the Fort Collins, Colorado, Flash Flood of 1997", *J. of Hydrology*, 228, 82-100, 2000

Collaborators

Ed Brandes

National Center for Atmospheric research

Norman Miller

Berkeley National Lab

Juanzhen Sun

National Center for Atmospheric research

Graduate Advisors

John Labadie

MS Advisor

Colorado State University

Fred Ogden

Ph. D Advisor

University of Wyoming (formerly U. Connecticut)