

YOGESH P. KHARE (Ph.D.)

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OBJECTIVE: Actively looking for research positions in hydrology, water resources, hydroclimatology

EDUCATION

- Ph.D., Agricultural and Biological Engineering University of Florida, Gainesville 2014
- M.S., Civil and Coastal Engineering, University of Florida, Gainesville 2009
- B.E., Civil Engineering, University of Mumbai, Mumbai, India 2006

RESEARCH

- Dissertation: 'Hydrologic and Water Quality Model Evaluation with Global Sensitivity Analysis: Improvements and Applications'
 - Developed an efficient parameter sampling strategy for the method of Elementary Effects for the low cost parameter screening of high dimensional models and applied it to Watershed Assessment Model.
 - Demonstrated a novel technique for handling parameter correlation in global sensitivity analysis.
- **Other Research Projects (selected)**
 - Effects of landuse change on water quality in the two watersheds in west-central Florida.
 - Soil water dynamics modeling in southern Florida. Collaborated with Dr. Kisekka (then a Ph.D. student at UF).
 - Assisted Dr. Ashish Mehta in various research and consulting projects in coastal sediment transport.

Selected Publications (total – journal papers published/accepted: 9, submitted/in preparation: 4, book chapters: 1)

- **Khare, Y.P.**, Muñoz-Carpena, R., Rooney, R., Martinez, C.J. 2015. A multi-criteria trajectory-based parameter sampling strategy for the screening method of elementary effects, *Environmental Modelling and Software* 64: 230-239.
- Kisekka, I., Migliaccio, K.W., Muñoz-Carpena, R., Schaffer, B., **Khare, Y.P.** 2014. Modeling soil moisture dynamics considering measurement uncertainty. *Hydrologic Processes*, doi: 10.1002/hyp.10173
- **Khare, Y.P.**, Martinez, C.J., Toor, G.S. 2012. Water Quality Trends and Land Use Changes in the Alafia and Hillsborough River Watersheds, Florida, USA, *Journal of the American Water Resources Association* 48(6):1279-1293.

WORK EXPERIENCE

- Postdoctoral Research Associate, University of Florida** Jan 2015 -- present
- Graduate Research Assistant, University of Florida** Jan 2010 – Dec 2014
- Student Assistant, University of Florida** Oct 2008 – Dec 2009
- Lecturer, Sardar Patel College of Engineering, University of Mumbai, India** July 2007 -- June 2008
- Courses Taught: Hydraulics and Fluid Mechanics
- Graduate Engineering Trainee and Senior Engineer, L&T ECC Limited, Ahemdabad, India** June 2006 - July 2007
- Worked at L&T Jetty and Slipway Project Sites, which included major Construction Activities of Marine Piling, Precast Beam Casting and Precast Beam Erection. (Handling 100 construction workers.)
 - Designed Shuttering Scheme for Jetty at Mundra and Hew Jetty (Saved shuttering cost worth Rs.2 lacs).

AWARDS (Selected)

- McNair Bostic Scholarship, Department of Agricultural and Biological Engineering, University of Florida (2014)
- College of Engineering Outstanding International Student, University of Florida (2013)
- Sanford Young Student Award, Florida Section of the American Water Resources Association (2012)

EXTRACURRICULAR & COCURRICULAR ACTIVITIES

- Treasurer of the AWRA UF Student Chapter (2011-12), General Secretary (2012-13).
- Department Representative in the Graduate Student Council, University of Florida (2010-2013)
- Member of ASABE task committee on hydrologic and water quality model calibration guidelines (2012-2014)
- Membership: ASCE, ASABE, AWRA, AGU.

SKILLS

Programming: Proficient - MATLAB, Basic - R, FORTRAN, C, C++ and Unix, familiar with parallel computing

Hydrology: WAM, SWAT, Mike SHE, HEC-RAS, HEC-HMS, VFSMOD, WAVE, ArcGIS

Statistics and Plotting: JMP, Minitab, SigmaPlot, R, Excel, MATLAB, SimLab