

Fahad Khan Khadim
Hydrometeorology, GIS and Remote Sensing

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Education

- University of Connecticut (UConn), CT, USA
Ph.D. in Environmental Engineering (Ongoing)
- Florida Atlantic University (FAU), FL, USA
M.S. in Civil Engineering, (Graduated Spring 2017)
CGPA: 4.00 (out of 4)
- Bangladesh University of Engineering and Technology (BUET), Bangladesh
B.Sc. in Civil Engineering, (Graduated April 2012)
GPA: 3.24 (out of 4)

Employment

- 08/17 – Present Graduate Research Assistant (PhD),
Department of CEE, University of Connecticut, USA.
Applied research pertaining to Hydrometeorology and Remote Sensing.
- 08/15 – 05/17 Graduate Research Assistant (MS),
Department of CECE, Florida Atlantic University, USA.
Applied research in lieu with Hydrology, Geomatics and Remote Sensing.
(<http://faculty.eng.fau.edu/suh/people/fahad-khan/>)
- 04/12- 07/15 Junior Specialist,
CEGIS, Bangladesh.
Environmental analysis in a number of National and International Projects,
(<http://www.cegisbd.com/>)
- 11/13 – 12/13 Trainee,
DELTARES, the Netherlands
Design support for a 3-D density dependent groundwater and coupled solute transport model, named SEAWAT.
(<https://www.deltares.nl/en/>)

Journal papers

- Khadim, F.K., Su, H. and Xu, L., 2017. A Spatially weighted optimization model (SWOM) for Salinity mapping in Florida Bay using Landsat images and in-situ observations. Physics and Chemistry of the Earth, Parts A/B/C. <https://doi.org/10.1016/j.pce.2017.06.001>
- Khadim, F.K., Kar, K.K., Halder, P.K., Rahman, M.A. and Morshed, A.M., 2013. Integrated water resources management (IWRM) impacts in south west coastal zone of Bangladesh and fact-finding on tidal river management (TRM). Journal of Water Resource and Protection, 5(10), p.953.
<http://dx.doi.org/10.4236/jwarp.2013.510098>

- Kar, K.K., Yang, S.K., Lee, J.H. and Khadim, F.K., 2017. Regional frequency analysis for consecutive hour rainfall using L-moments approach in Jeju Island, Korea. *Geoenvironmental Disasters*, 4(1), p.18. <https://doi.org/10.1186/s40677-017-0082-0>

Conference proceedings

- Khadim, F.K., Su, H., Blankenship, J., Bloetscher, F. and Wang W. *Salinity Mapping for Florida Bay using Landsat TM images and in-situ observations*, Poster presented at IEEE International Geoscience and Remote Sensing Symposium, Fort Worth, Texas, USA, 2017.
- Khadim, F.K. and Su, H. *Surface water salinity mapping for Florida Bay using geo-spatial analysis on Landsat band reflectance values and in-situ observations*, Paper presented at South Florida GIS Expo, West Palm Beach, Florida, USA, 2016.
- Khadim, F.K. Tidal River Management concept and geo-spatial implications in South-West coastal zone of Bangladesh, Poster presented at South Florida GIS Expo, West Palm Beach, Florida, USA, 2015.

Thesis and Dissertation

Water and Soil Salinity Mapping for Southern Everglades Using Remote Sensing Techniques and In Situ Observations, MS Thesis Paper, submitted at Department of Civil, Environmental and Geomatics Engineering (CEGE), FAU, on May 2017

Synopsis of Research Projects

- 08/17 – Present *PIRE: Taming Water in Ethiopia – An Interdisciplinary Approach to Improve Human Security in a Water-Dependent Emerging Region* (working as a research assistant), with the PIRE-hydrology group, UConn.
- 05/16 – 05/17 *Monitoring soil and water salinity for South Florida by the integration of remote sensing observations and in situ measurements* (working as a research assistant), with Center of Environmental Studies, FAU and Water and Lalita Janke Charitable Foundation in Sustainability Science Research Fund
- 08/14 – 05/15 *Formulation of Bangladesh Delta Plan 2100* (worked as a Jr. Environmental planner)
Client: Twynstra Gudde, the Netherlands and Bangladesh Water Development Board (BWDB)
- 02/15 – 05/15 *Monitoring and Evaluation of Environmental Indicators of Shahjibajar 330 MW Combined Cycle Power plant, Bangladesh* (worked as Jr. Environmental auditor)
Client: Bangladesh Power Development Board (BPDB) and HSBC
- 11/14 – 03/15 *Monitoring and Evaluation of Environmental Indicators of Khulna Coal based Thermal Power plant, Rampal Bangladesh* (worked as an Jr. Environmental auditor)
Client: National Thermal Power Corporation (NTPC) India and BPDB
- 05/14 – 03/15 *Environmental Impact Assessment for Blue Gold Program in the South West Coastal Region of Bangladesh* (worked as a Jr. hydrologist)
Client: Embassy of the Kingdom of Netherlands (EKN) and BWDB

- 01/14 – 06/14 *Environmental Impact Assessment of the Main River Flood and Bank Erosion Risk Management Program (MRP) in Bangladesh* (worked as a Jr. hydrologist)
Client: Asian Development Bank (ADB), Northwest Hydraulic Consultants Ltd. (NHC) and BWDB
- 11/13 – 04/14 *Managing Saltwater Intrusion Impacts in Bangladesh – An integrated approach based on salinity monitoring, modeling and stakeholder participation to improve water safety plans* (worked as a Jr. hydrologist)
Client: UNESCO-IHE and DELTARES
- 07/12 – 11/13 *Monitoring and Evaluation of the Environmental, Social and Institutional Development for Drainage Improvement of Khulna Jessore Drainage Rehabilitation Program* (worked as a Jr. hydrologist)
Client: ADB and BWDB
- 11/12 – 08/13 *Environmental Impact Assessment for the Coastal Embankment Improvement Project, Phase I (CEIP-I), Bangladesh* (worked as a Jr. hydrologist)
Client: BWDB and World Bank
- 04/12 – 03/13 *Water Management Interventions for Improving Smallholder Farming and Rural Livelihoods in Northeast region of Bangladesh* (worked as a Jr. engineer)
Client: Food and Agriculture Organization (FAO)
- 06/12 – 12/12 *Mathematical Modelling of Drainage & Irrigation System, and Topographic Survey of Teesta Barrage Project, Phase-II, Unit-I,* (worked as a Jr. engineer)
Client: BWDB

Awards

- 2nd Prize in Poster Presentation, South Florida GIS Expo, West Palm Beach, Florida, 2015
- BUET Academic Merit Scholarship for outstanding results, 2008
- 3rd Place in National Mathematical Olympiad (Bangladesh), 2006
- 3rd Place in Regional Mathematical Olympiad (Dhaka, Bangladesh), 2006

Voluntary Affiliations

- Secretary at American Society of Photogrammetry and Remote Sensing (ASPRS), FAU Chapter
- Reviewer at the Journal of Physics and Chemistry of the Earth, Elsevier publishing, The Netherlands
- Co-founder and former captain (06/12 – 06/15) of ‘Football Club R. M. United’, an underground soccer club in Bangladesh