CV – June 2024

Karim Alizad

Department of Civil Engineering
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Education

Louisiana State University (LSU) - Baton Rouge, LA, United States of America
Postdoctoral Research Associate – Center for Coastal Resiliency, 2016-2018

University of Central Florida (UCF) - Orlando, FL, United States of America
Ph.D. – Civil Engineering, 2016

University of California, Riverside (UCR) - Riverside, CA, United States of America
Master of Science – Mechanical Engineering, 2011

University of Tehran - Tehran, Iran
Master of Science – Energy Conversion, 2008

Semnan University - Semnan, Iran
Bachelor of Science - Mechanical Engineering, 2005

Work Experience

2023-Present **Assistant Professor**
Department of Civil Engineering (https://wp.kntu.ac.ir/alizad/)
K.N.Toosi University of Technology

- Director of Sustainable Hydro-ENvironemntal Systems (SHENS) Lab (www.shens.ir)
- Teaching Fluid Mechanics, Hydraulics, and Computational Hydraulics

2018-2023 **Research Assistant Professor**
Baruch Institute for Marine and Coastal Sciences (https://bit.ly/3inKEVk)
University of South Carolina

- Modeling of coastal wetland response to SLR
- Implementation of the Hydro-MEM model to the East Coast wetlands

2016-2018 **Postdoctoral Research Associate**
Center for Coastal Resiliency (http://www.lsu.edu/ccr/)
Louisiana State University

- Development and implementation of Hydro-MEM and hydrodynamic ADCIRC models
- Mentoring and supervising one master and one junior PhD students

2011-2016 **Graduate Research Assistant**
CHAMPS Lab – NOAA funded EESLR-NGOM Project
University of Central Florida

- Developed an integrated model to study SLR effects on wetlands (Hydro-MEM model)
- Created wetland projection maps published by NOAA for restoration in Apa, GB, and WB NERRs
- Supervised and supported the research activities of two master and three undergraduate students in the group

2009-2011 **Graduate Research and Teaching Assistant**
Heat and Mass Transfer Research Lab (https://vafai.engr.ucr.edu/)
University of California, Riverside

- Investigated the thermal performance of flat-shaped heat pipes using nanofluids

2006-2009 **Graduate Research and Teaching Assistant**
VFE Research Institute
University of Tehran

Journal Articles

Radfar, S., Mahmoudi, S., Moftakhari, H., Meckley, T., Bilskie, M. V., Collini, R., **Alizad, K.**, Cherry, J. A., Moradkhani, H. (2024), "Nature-Based Solutions as Buffers against Coastal Compound Flooding: Exploring Potential Framework for Process-Based Modeling of Hazard Mitigation," ***Science of The Total Environment***, Vol. 938, pp. 173529, https://doi.org/10.1016/j.scitotenv.2024.173529

Zakipour, M., Yazdandoost, F., **Alizad, K.**, Izadi, A., Farhangmehr, A. (2023), "An Integrated Resilient Sediment Transport RIsk Management (IRSTRIM) Approach for Estuaries," ***Journal of Marine Science and Engineering***, Vol 11, No 7, pp. 1471. https://doi.org/10.3390/jmse11071471

Zakipour, M., Yazdandoost, F., Farhangmehr, A., **Alizad, K.** (2023), "An investigation into the effects of tidal barrier operation on the tidal asymmetry in the Arvand Estuary," ***Journal of Hydraulic Structures***, Vol 9, No 1, pp. 9-17. https://doi.org/10.22055/JHS.2023.42950.1241

Alizad, K., Morris, J.T., Bilskie, M.V., Passeri, D.L., Hagen, S.C. (2022), "Integrated Modeling of Dynamic Marsh Feedbacks and Evolution Under Sea-Level Rise in a Mesotidal Estuary (Plum Island, MA, USA)," ***Water Resources Research***, 58, e2022WR032225. https://doi.org/10.1029/2022WR032225

Alizad, K., Medeiros, S.C., Foster-Martinez, M., Hagen, S.C. (2020), "Model Sensitivity to Topographic Uncertainty in Meso- and Microtidal Marshes," ***IEEE Journal of Selected Topics in Applied Earth Observation and Remote Sensing***, Vol 13, pp. 807-814. https://doi.org/10.1109/JSTARS.2020.2973490

Foster-Martinez, M., **Alizad, K.**, Hagen, S.C. (2020), "Estimating Wave Attenuation at the Coastal Land Margin with a GIS Toolbox," ***Journal of Environmental Modeling and Software***, Vol 13, pp.104788. https://doi.org/10.1016/j.envsoft.2020.104788

Alizad, K., Hagen, S.C., Medeiros, S.C., Bilskie, M.V., Morris, J.T., Balthis, L., Buckel, C.A. (2018), "Dynamic Responses and Implications to Coastal Wetlands and the Surrounding Regions under Sea Level Rise," ***PLOS ONE***, Vol. 13, No. 10, pp. e0205176. https://doi.org/10.1371/journal.pone.0205176

Alizad, K., Hagen, S.C., Morris, J.T., Medeiros, S.C., Bilskie, M.V. (2016), "Coastal Wetland Response to Sea Level Rise in a Fluvial Estuarine System," ***Earth's Future***, Vol. 4, No. 11, pp. 483-497. http://dx.doi.org/10.1002/2016EF000385

Alizad, K., Hagen, S.C., Morris, J.T., Bacopoulos, P., Bilskie, M.V., Weishampel, J.F., Medeiros, S.C. (2016), "A Coupled, Two-Dimensional Hydrodynamic-Marsh Model with Biological Feedback," ***Ecological Modeling***, Vol. 327, pp. 29-43, http://dx.doi.org/10.1016/j.ecolmodel.2016.01.013

Bilskie, M.V., Hagen, S.C., **Alizad, K.**, Medeiros, S.C., Passeri, D.L., Needham, H., Cox A., (2016), "Dynamic Simulation and Numerical Analysis of Hurricane Storm Surge Under Sea Level Rise along the Northern Gulf of Mexico," ***Earth's Future***, Vol. 4, No. 5, pp. 177-193. http://dx.doi.org/10.1002/2015EF000347

Passeri, D.L., Hagen, S.C., Plant, N.G., Bilskie, M.V., Medeiros, S.C., **Alizad, K.** (2016), "Tidal Hydrodynamics Under Future Sea Level Rise and Coastal Morphology in the Northern Gulf of Mexico," ***Earth's Future***, Vol. 4, No. 5, pp. 159-176. https://doi.org/10.1002/2015EF000332

Hovenga, P.A., Wang, D., Medeiros, S.C., Hagen, S.C., **Alizad, K.** (2016), "The Response of Runoff and Sediment Loading in the Apalachicola River, Florida to Climate and Land Use Land Cover Change," ***Earth's Future***, Vol. 4, No. 5, pp. 124-142. http://dx.doi.org/10.1002/2015EF000348

Passeri, D.L., Hagen, S.C., Bilskie, M.V., **Alizad, K.**, Wang, D. (2015), "The Dynamic Effects of Sea Level Rise on Low Gradient Coastal Landscapes: a Review," ***Earth's Future***, Vol. 3, No. 6, pp. 177-193. http://dx.doi.org/10.1002/2015EF000298

Chen, X., **Alizad, K.**, Wang, D., Hagen, S.C. (2014), "Climate Change Impact on Runoff and Sediment Loads to the Apalachicola River at Seasonal and Event Scales," ***Journal of Coastal Research***, Special Issue, No. 68, pp. 33-42. http://dx.doi.org/10.2112/SI68-005.1

Wang, D., Hagen, SC., **Alizad, K.** (2013), "Climate Change Impact and Uncertainty Analysis of Extreme Rainfall Events in the Apalachicola River Basin, Florida," ***Journal of Hydrology***, Vol. 480, No. 0, pp. 125-135. http://dx.doi.org/10.1016/j.jhydrol.2012.12.015

Alizad, K., Vafai, K., Shafahi, M. (2012), "Thermal Performance and Operational Attributes of the Startup Characteristics of Flat-Shaped Heat Pipes using Nanofluids," ***International Journal of Heat and Mass Transfer***, Vol. 55, No. 1–3, pp. 140-155. http://dx.doi.org/10.1016/j.ijheatmasstransfer.2011.08.050

Funding

Co-PI: Assessing Nature-Based Solutions to Mitigate Flood Impacts and Enhance Resilience. National Oceanic and Atmospheric Administration, ESLR Coastal Resilience Program, 2022-2024, **$1.94M**

https://coastalscience.noaa.gov/project/assessing-nature-based-solutions-to-mitigate-flood-impacts-and-enhance-resilience/

Co-PI: Salt Marsh Evolution Along the Coastal Atlantic Bight. National Oceanic and Atmospheric Administration, ESLR Coastal Resilience Program, 2022-2025, **$1.6 M**

https://coastalscience.noaa.gov/project/salt-marsh-evolution-along-the-south-atlantic-bight/

Co-PI: Integrated Modeling of the Effects of Sea Level Rise across Estuaries, Marshes, and Barrier Islands in Mississippi Sound. National Oceanic and Atmospheric Administration, 2020-2023, **$750K**

https://coastalscience.noaa.gov/project/integrated-modeling-of-the-effects-of-sea-level-rise-across-estuaries-marshes-and-barrier-islands-in-mississippi-sound/

Co-PI: Coastal Wetland Restoration and Community Resiliency in West Ashley, City of Charleston (SC). National Fish and Wildlife Foundation (NFWF), **$220K**

Co-PI: Modelling Hydrodynamics and Salinity at the Chincoteague National Wildlife Refuge located in the Virginia end of Assateague Island, Virginia. US Fish and Wildlife Service, **$110K**

Co-PI: Tidal and Hurricane Storm Surge Modeling in the Northern Gulf of Mexico National Science Foundation Extreme Science and Engineering Discovery Environment (XSEDE) Research Allocation, 2, 060, 000 SU's (CPU-hours) on TACC Stampede2 and 22.5 TB Storage on TACC Ranch.

Published Datasets

Alizad, K., Morris, J.T., Medeiros, S.C., Passeri, D.L., and Hagen, S.C. (2022), "Assessing the northeastern Gulf of Mexico microtidal wetland system change in the Apalachicola-Big-Bend region under sea-level-rise: model inputs and outputs," ***U.S. Geological Survey data release,*** https://doi.org/10.5066/P9R2BND7

Medeiros, S.C., **Alizad, K.**, Abdelwahab, K., Bobinsky, J.S. (2022), "Adjusted digital elevation models (DEMs) for the lower Pascagoula River region in Mississippi representative of 2019-03-31 conditions (NCEI Accession 0256369)," ***NOAA National Centers for Environmental Information***. Dataset. https://doi.org/10.25921/kcca-fk49

Medeiros, S.C., **Alizad, K.**, Abdelwahab, K., Bobinsky, J.S. (2022), "Adjusted digital elevation models (DEMs) for the Apalachee Bay region of the Florida panhandle, representative of 2018-03-01 conditions (NCEI Accession 0256313)," ***NOAA National Centers for Environmental Information***. Dataset. https://doi.org/10.25921/z1en-yx85

Bilskie, M.V., Hagen, S.C., Medeiros, S.C., Kidwell, D., Buckel, C.A., Passeri, D.L., **Alizad, K.** (2018), NCCOS Ecological Effects of Sea Level Rise in the Northern Gulf of Mexico (EESLR-NGOM): Simulated Storm Surge (NCEI Accession 0170339). ***NOAA National Centers for Environmental Information.*** Dataset. doi: http://dx.doi.org/10.7289/V5FQ9TVX

Alizad, K., Hagen, S.C., Medeiros, S.C., Morris, J.T., Weishampel, J.F., Bilskie, M.V., Kidwell, D., Buckel, C.A., Passeri, D.L. (2018), NCCOS Ecological Effects of Sea Level Rise in the Northern Gulf of Mexico (EESLR-NGOM): Mean High Water and Salt Marsh Productivity (Hydro-MEM) (NCEI Accession 0170338). ***NOAA National Centers for Environmental Information.*** Dataset. doi: http://dx.doi.org/10.7289/V5DR2SRJ

Teaching Experience

2024	Computational Hydraulics, Fluid Mechanics, Civil Engineering Seminar, KNTU
2023	Fluid Mechanics, Open-Channel Hydraulics, KNTU
2017	Guest Lecturer, Sea Level Rise Impact on Coastal Wetlands, CE 7200, LSU
2016	Guest Lecturer, Hydrodynamic-Marsh Modeling, CE 7700, LSU
2012-2014	Undergraduate Advisor, COMPASS Program (http://compass.ucf.edu/), UCF
2012-2013	Undergraduate Mentor and Advisor, EXCEL Program (https://excel.ucf.edu/), UCF
2011	Heat Transfer, Mechanical Engineering Modeling and Analysis UCR
2010	Transport Phenomena, Dynamics, UCR
2009	Computational Fluid Dynamics II, University of Tehran (Spring Semester)
2008	Advanced Engineering Mathematics, University of Tehran (Fall Semester)

Conference Proceedings

Alizad, K., Hagen, S.C., Bilskie, M.V. (2017). "The Resiliency of Coastal Marsh Systems under Sea Level Rise," ***Proceedings of the 37th IAHR World Congress***, *Kuala Lumpur, Malaysia*

Mohsenian, H., Ghadamian, H., Hamidi, A. A., **Alizad, K.** (2015). "Open Expansion Tank, Structural Reconstruction with Re-Engineering Considerations and Energy Loss Minimization," ***Proceedings of the ASME 2015 Power and Energy Conversion Conference***, *PowerEnergy2015, San Diego, CA*

Alizad, K., Hagen, S.C., Wang, D., Daranpob, A. (2012). "Present and Future Apalachicola River Flow Study using WASH2D Numerical Model," *Tenth International Conference on Hydroscience and Engineering (ICHE2012), Orlando, FL*

Esfahanian, V., **Alizad, K**., Salavatizadeh, A. and Ramezani, M. (2009). "Numerical 1-D Simulation of Internal Combustion Engines considering Entropy Level Changes," ***Proceedings of the Sixth International Conference on Internal Combustion Engines***, *Tehran, Iran*

Esfahanian, V., Ramezani, M**.,** Salavatizadeh, A. and **Alizad, K**. (2009), "Simulation of Diesel Engine Cycle Using Multi-Zone Spray and Stoichiometric Combustion, *"****Proceedings of the Sixth International Conference on Internal Combustion Engines****", Tehran, Iran*

Conference Presentations (Oral)

Alizad, K., Hagen, S.C., Morris, J.T., Medeiros, S.C., Bacopoulos, P., Passeri, D. (2021), "Hydro-MEM Hydrodynamic-Ecological Model: a Scientific Approach to Modeling Coastal Wetland Response to Sea-Level Rise," *AGU 2021 Fall Meeting, New Orleans, LA*

Alizad, K., Medeiros, S.C., Morris, J.T., Hagen, S.C., Passeri, D., Bacopoulos, P. (2021), "Vulnerability of Coastal Wetlands to Sea-Level Rise in Northwest Florida," *Cerf 2021 Biennial Conference, Online*

Alizad, K., Medeiros, S.C., Morris, J.T., Hagen, S.C. (2020). "Northwest Florida Coastal Wetland Response to Sea-Level Rise Using Apalachicola-Big-Bend (ABB) Hydrodynamic Model," *AGU 2020 Fall Meeting, Online*

Alizad, K., Hagen, S.C., Bilskie, M.V., Morris, J.T. (2018), "Coastal Marsh Response to Sea Level Rise along the mid-Atlantic coast of the US," *Fifteenth Estuarine & Coastal Modeling Conference (ECM 2018), Seattle, WA*

Alizad, K., Hagen, S.C., Bilskie, M.V., Mariotti, G. (2017). "Sensitivity of Estuaries to Coastal Morphological Change Induced by Sea Level Rise," *AGU 2017 Fall Meeting, New Orleans, LA*

Alizad, K., Hagen, S.C., Bilskie, M.V. (2017). "The Resiliency of Coastal Marsh Systems under Sea Level Rise," *The 37th IAHR World Congress, Kuala Lumpur, Malaysia*

Alizad, K., Gholizadeh, S. (2015), "A Lesson Plan on Oil Spill Solutions," *2015 Florida Engineering Education Conference (FEEC 2015), Orlando, FL*

Alizad, K., Hagen, S.C., Morris, J.T., Bilskie, M.V., Passeri, D. (2014), "Biomass Productivity Response to Sea Level Rise in a Marine Dominated Estuary," *Young Coastal Scientists and Engineers Conference (YCSEC 2014), Newark, DE*

Alizad, K., Hagen, S.C., Morris, J.T., Bilskie, M.V., Passeri, D. (2014), "Biomass Productivity Response to Sea Level Rise in Two Distinct Saltwater Marshes," *The 34th International Conference on Coastal Engineering (ICCE 2014), Seoul, South Korea*

Alizad, K., Chen, X., Hagen, S.C., Wang, D. (2013), "Assessment of Present and Future Rainfall-Runoff and Sediment Loading in Apalachicola River Basin," *Thirteenth Estuarine & Coastal Modeling Conference (ECM 2013), San Diego, CA*

Alizad, K., Hagen, S.C., Wang, D., Daranpob, A. (2013), "Assessment of Present and Future Rainfall-Runoff in Apalachicola River Basin," *29th Annual Water Resources Seminar, EWRI 2013, Orlando, FL*

Alizad, K., Hagen, S.C., Wang, D., Daranpob, A. (2012), "Present and Future Apalachicola River Flow Study using WASH2D Numerical Model," *Tenth International Conference on Hydroscience and Engineering (ICHE2012), Orlando, FL*

Conference Presentations (Poster)

Alizad, K., Morris, J.T., Hagen, S.C., (2019), "Dynamic Response of Florida Big-Bend Wetlands to Sea Level Rise," *AGU 2019 Fall Meeting, San Francisco, CA*

Alizad, K., Morris, J.T., Hagen, S.C., (2018), "A Hydrodynamic Marsh Model with Dynamic Marsh Parametrization," *AGU 2018 Fall Meeting, Washington, D.C.*

Alizad, K., Bilskie, M.V., Hagen, S.C., Medeiros, S.C., Morris, J.T., (2016), "Wetland Response to Sea Level Rise in the Northern Gulf of Mexico," (Invited) *AGU 2016 Fall Meeting, San Francisco, CA*

Alizad, K., Hagen, S.C., Morris, J.T., Medeiros, S.C., Bilskie, M.V., Passeri, D., (2015), "Coastal Marsh Response to Rising Sea Levels in the Grand Bay, MS Estuary," *AGU 2015 Fall Meeting, San Francisco, CA*

Alizad, K., Hagen, S.C., Morris, J.T., Bilskie, M.V., Passeri, D., Medeiros, S.C. (2014), "Coastal Wetland Response to Sea Level Rise in a Marine and Fluvial Estuarine System," *AGU 2014 Fall Meeting, San Francisco, CA*

Alizad, K., Hagen, S.C., Morris, J.T., Bacopoulos, P. (2013), "A Hydro-Marsh Equilibrium Model for Marsh System Response to Sea Level Rise," *AGU 2013 Fall Meeting, San Francisco, CA*

Alizad, K., Chen, X., Hagen, S.C., Wang, D. (2013), "Assessing Climate Change Impact on Runoff at the Seasonal and Event Scales in the Apalachicola River Basin," *Coastal Hazards Summit 2013, St. Augustine, FL*

Alizad, K., Wang, D., Alimohammadi, N., Hagen, S.C. (2012), "Climate Change Impact on the Annual Water Balance in the Northwest Florida Coastal," *AGU 2012 Fall Meeting, San Francisco, CA*

Invited Presentations

Alizad, K., Hagen, S.C., Morris, J.T., Medeiros, S.C., Bacopoulos, P., Passeri, D. (2021), "Hydro-MEM Hydrodynamic-Ecological Model: a Scientific Approach to Modeling Coastal Wetland Response to Sea-Level Rise," *AGU 2021 Fall Meeting, New Orleans, LA*

Alizad, K. (2021), "Dynamic Modeling of Marsh Evolution in the Apalachicola Microtidal Fluvial Estuary," Apalachicola NERR Symposium, Online, Feb 19, 2021

Alizad, K. (2018), "Dynamic Responses of Coastal Wetlands to Sea Level Rise," One NOAA Science Seminar Series – NOAA STAR webinar, NOAA Silver Spring, MD, Dec 13, 2018

Alizad, K. (2017), "Coastal Wetland Response to Sea Level Rise in the Northern Gulf of Mexico," Early Career Seminar Series by the Cardiff University Water Research Institute and IAHR Young Professionals Network, Cardiff, U.K., July 10, 2017

Alizad, K., Bilskie, M.V., Hagen, S.C., Medeiros, S.C., Morris, J.T., (2016), "Wetland Response to Sea Level Rise in the Northern Gulf of Mexico," *AGU 2016 Fall Meeting, San Francisco, CA*

Alizad, K., Hagen, S. C., Morris, J.T., Medeiros, S. C., Bilskie, M.V., Passeri, D. (2016), "Coastal Wetland Response to Rising Sea Levels in the Weeks Bay, AL Estuary," A Research Symposium at Weeks Bay Reserve, Weeks Bay National Estuarine Research Reserve (WBNERR), August 4-5, 2016

Alizad, K., Hagen, S. C., Medeiros, S. C. (2015), "Integrated Modeling of Hydrodynamics and Marsh Evolution under Sea Level Rise in Apalachicola, FL," Acada Talks, University of Central Florida, September 11, 2015

Alizad, K., Hagen, S. C. (2014), "Hydro-marsh modeling for the Grand Bay, Weeks Bay, and Apalachicola NERRs," *Elks Lodge #286, Ocala, FL*, August 15, 2014

Alizad, K. (2013), "Research Applications of Topographic Surveying," *Engineering Measurement Course talk, University of Central Florida*, April 4, 2013

Workshop Presentations

Alizad, K. (2019), "Improvements on the Hydro-MEM Modeling and Its Applications," NGOM+N2E2 Management Committee Workshop, Weeks Bay, AL, August 23, 2019

Alizad, K. (2018), "Apalachicola wetland response to sea level rise," NGOM+N2E2 Management Committee Workshop, Grand Bay, MS, July 12, 2018

Alizad, K., Hagen, S. C. (2015), "Hydro-marsh modeling for the Grand Bay, and Apalachicola NERRs," EESLR-NGOM Management Committee Workshop, Grand Bay, MS, July 28, 2015

Alizad, K., Hagen, S. C. (2014), "Hydro-marsh modeling for the GB, WB, and Apalachicola NERRs," EESLR-NGOM Management Committee Workshop, Apalachicola, FL, July 17, 2014

Alizad, K., Hagen, S. C. (2013), "Assessment of present and future rainfall-runoff in the Apalachicola River Basin," EESLR-NGOM Management Committee Workshop, Georgetown, SC, March 7, 2013

Honors & Awards

High Ranked Universities Alumni Tenure Track Professorship, INEF-KNTU- 2023

Graduate Dean Dissertation Completion Award, UCF, 2015-2016

Outstanding Contributor to IAHR Student Chapter at UCF, Builders of the Realm, Civil, Environmental, and Construction Engineering Department, UCF, 2014-2015

ASCE Water Resources Technical Group Award, UCF, 2012-2013, 2013-2014

Frank Hubbard Engineering Award, UCF, 2012-2013

Elizabeth S. Lampp Trust and Estate Award, UCF, 2011-2012

Outstanding Teaching Award, UCR, 2010-2011

Graduate Division Fellowship Award, UCR, 2009-2011

Professional Development

The Inclusive STEM Teaching workshop, 2022, Organized by Northwestern University at Edx

Real Time Kinematic GPS Surveying, UCF, 2015

Grantsmanship Series Workshop, UCF, 2015

Preparing Tomorrow's Faculty Series Workshop, UCF, 2014

Linux/Unix Basics for HPC, TACC online training, 2014

ADCIRC + SMS Bootcamp, Vicksburg, MS, 2012

Aero Acoustic Numerical Simulation, University of Tehran, 2009

Professional Membership

American Geophysical Union (AGU), 2011-Present

International Association for Hydro-Environmental Engineering and Research (IAHR), 2013-Present

American Society of Civil Engineers (ASCE), 2011-2016

American Society of Mechanical Engineers (ASME), 2010-2016

Coasts, Oceans, Ports, & River Institute (COPRI), 2012-2016

Association for the Science of Limnology and Oceanography (ASLO), 2015

Professional Service

Topic Editor and Guest Editor for the Special Issues titled "Advances in Coastal Hydrodynamics and Wetland Modeling" in the Journal of Marine Science and Engineering (JMSE)

Reviewer for

- Geophysical Research Letters, Journal of Geophysical Research, Earth Surface, Nature Geoscience, PLoS ONE, Nature Scientific Reports, Water Resources Research, Estuarine Coastal and Shelf Sciences, Journal of Estuaries and Coasts, Journal of Remote Sensing, Journal of Hydrology, Journal of Hydraulic Research, Journal of Geosciences, Journal of Water, Journal of Water Resources Planning and Management, Journal of Sustainability, Journal of Sustainable Cities and Society, Journal of Environmental Modeling and Assessment, Journal of Marine Science and Engineering, Journal of Atmosphere, Journal of Hydrogeology and Hydrologic Engineering**,** and more on (https://www.webofscience.com/wos/author/record/258862)
- National Science Foundation (NSF)
- National Oceanic and Atmospheric Administration
- Sea Grant Program Grants
- Netherlands Organization for Scientific Research (NWO)

Vice President of the LSU Postdoctoral Society, 2016-2017

Founder and First President of the International Association of Hydro-Environmental Engineering and Research (IAHR) Student Chapter at University of Central Florida, 2013-2015

Treasurer Officer of Graduate Student Association (GSA), UCF, 2012-2013

International Student Affairs Officer of GSA, UCR, 2010-2011

Member of International Education Committee of Academic Senate, UCR, 2010-2011

Computer Skills

Operating Systems	Windows, Linux
Programming Languages	FORTRAN, Python, C/C++
Engineering Software	Advanced CIRCulation (ADCIRC), Surface Water Modeling System
	Delft 3D, ArcGIS, SWAT, WASH 2D, Fluent, Gambit, MATLAB
General Software	Microsoft Office, Cygwin, FigureGen, Global Mapper, VIM, La Tex