

Karthik Boregowda, B.E., M.S., M.E.
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EXECUTIVE SUMMARY

- ❖ Strong educational background in engineering, business, and management from reputable institutions
- ❖ Tau Beta Pi Fellow, Tau Beta Pi Engineering Honor Society, 2025-26
- ❖ Presidential Service Award, University of Florida, 2025
- ❖ Alec Courtelis Award, University of Florida International Center, 2024
- ❖ Attributes of a Gator Engineer Award, University of Florida College of Engineering, 2024
- ❖ National Science Foundation (NSF) Graduate Research Assistantship, 2021
- ❖ The USGS and NDWRRI Research Fellow, 2020-2021

EDUCATION

DOCTOR OF PHILOSOPHY (Ph.D) University of Florida Gainesville, FL, United States <i>Major: Environmental Engineering Sciences</i> <i>Concentration: Hydrologic Sciences Academic Concentration (UF/Water Institute)</i> <i>GPA: 4.0 (In Progress)</i>	January 2023 - Present <i>Excepted Graduation: Fall 2026</i>
GRADUATE CERTIFICATE (G.Cert) University of Florida Gainesville, FL, United States <i>Specialization: Wetland & Water Resource Management</i>	August 2023 - December 2024
MASTER OF ENGINEERING (M.Eng) University of Florida Gainesville, FL, United States <i>Major: Environmental Engineering Sciences (UF/HWCOE)</i> <i>Minor: Agricultural and Biological Engineering (UF/IFAS/CALS)</i> <i>GPA: 4.0</i>	August 2020 - December 2023
GRADUATE CERTIFICATE (G.Cert) University of Arkansas Little Rock, AR, United States <i>Specialization: Business and Management</i>	August 2018 - July 2019
MASTER OF SCIENCE (M.S) University of Arkansas Little Rock, AR, United States <i>Major: Construction Management</i> <i>GPA: 4.0</i> <i>Thesis: "An Experimental Comparison between Fine Aggregate and Quarry Fines Based on Mortar Block Strength"</i>	August 2015 - July 2017
BACHELOR OF ENGINEERING (B.E) Visvesvaraya Technological University Belgaum, Karnataka, India <i>Major: Civil Engineering</i> <i>GPA: 3.75 (First Class with Distinction)</i> <i>Project: "Planning and Designing of Mini Hydroelectric Power Project across Harihara Branch Canal"</i>	July 2010 - July 2014

PUBLICATIONS

- Karthik Boregowda & Michael Annable (2023), PFAS Water Surveillance System for Making Effective and Early Decisions During the Emergency Closure of Water Treatment Facilities, Abstract (1411829) presented at AGU23, 11-15 Dec. (Under Review)
- Karthik Boregowda (2023), Post-disturbance Forest Recovery in Wildfire-Affected Areas Using a Smart Tree Recommender System, Abstract (1370204) presented at AGU23, 11-15 Dec. (Under Review)

Liao, H, Boregowda, K, Cade, W, & Behdad, S. "Machine Learning to Predict Medical Devices Repair and Maintenance Needs." Proceedings of the ASME 2021 IDETC-CIE. Volume 5. Virtual, online. August 17–19, 2021. V005T05A012. ASME. <https://doi.org/10.1115/DETC2021-71333>.

Karthik, B. (2017). An Experimental Comparison between Fine Aggregate and Quarry Fines Based on Mortar Block Strength. Masters Abstracts International, Publication Number: AAT 10624245; ISBN: 9780355239393, Volume: 57-01.; p. 108.

Karthik, B. (2017). Strength Characteristics Analysis of Autoclave Cellular Concrete Block (A.C.C.) with Quarry Dust as Fine Aggregate. 53rd ASC Annual International Conference Proceedings (p. 831). Seattle, Washington: The Associated Schools of Construction.

GRANT SUPPORT

- 1). Project Title:** “Rejuvenation of Urban Streams in Cold Climate Regions Using Hydroponic Systems: A Case Study on English Coulee in Grand Forks, North Dakota”
PI: Karthik Boregowda **Funding Agency:** The USGS and NDWWRI. \$10,998
- 2). Project Title:** "Strength Characteristic Analysis of Cellular Concrete with Quarry Dust as Fine Aggregate”
PI: Karthik Boregowda **Funding Agency:** Committee on Sustainability, UA Little Rock. \$2,500

PROFESSIONAL EXPERIENCE

- Position:** IPPD Course Assistant **Period:** August 2023 - Present
Institution: UF Integrated Product & Process Design (IPPD), University of Florida, Gainesville, FL
- Supervising 12 engineering teams as they designed and built products for industrial sponsors
 - Facilitated System Level Design Review, Prototype Inspection Day, Peer Review Session, Elevator Pitch Workshop, Team Building Workshop, and Final Project Presentation (Fall 2023/Fall 2024, EGN4951)
 - Assisting Final Design Review (Spring 2024/Spring 2025, EGN4952)
- Position:** Graduate Research Assistant **Period:** August 2020 - Present
Institution: University of Florida, Gainesville, Florida
- Maintaining the day-to-day lab operations and working with the UF IT Team for support.
 - Submitting risk assessment requests for new lab equipment and software via the UF Risk Management System
- Position:** Graduate Teaching Assistant **Period:** August 2019 - August 2020
Institution: University of North Dakota, Grand Forks, North Dakota
- Collect research data using laboratory & measurement instruments like an acoustic doppler current profiler, autonomous surface vehicle, automated water sampling equipment, and regular equipment for water quality
 - Teaching Assistant for CE412: Soil Mechanics, Fall 2019 and CE306/ME306: Fluid Mechanics, Spring 2020
- Position:** Graduate Assistant **Period:** August 2018 - June 2019
Institution: University of Arkansas, Little Rock, Arkansas
- Maintaining the School of Counseling, Human Performance, and Rehabilitation's day-to-day operations.
 - Assisted the Dean, Director, faculty members, staff, and students in the department as needed.
- Position:** Research Assistant **Period:** January 2016 - August 2017
Institution: University of Arkansas, Little Rock, Arkansas
- Supervised civil and environmental engineering students working on assigned research projects
 - Assisted with the editing and preparation of manuscripts, reports, and presentations

TECHNICAL PROFICIENCY

Technical Knowledge: Vensim PLE, System Dynamic Modeling, MINEQL+4.6, Python, Minitab, Tally, Stad PRO, C Language, Solid Edge, AutoCAD, LEED, MATLAB, HEC-HMS, GIS, NexRAD, Remote Sensing and LiDAR in Hydrology, 2D, and Time Series Modeling

Operating Systems: OS X, Windows (11, 7, & 8), MS Excel, MS PowerPoint, MS Word, MS Office

PROFESSIONAL AFFILIATIONS

Associated Schools of Construction | American Concrete Institute | American Society of Civil Engineers | Environmental & Water Resources Institute | Tau Beta Pi | Society of Environmental Engineers | Chi Epsilon | Alpha Epsilon Lambda | Air & Waste Management Association | Florida Engineering Society | Order of Engineer