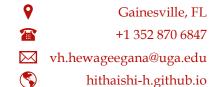
Viyaktha <mark>Hithaishi</mark> Hewageegana



PERSONAL SUMMARY

Highly motivated and innovative Coastal Engineer with expertise in coastal hydrodynamics & morphodynamics. I enjoy working in teams, collaborating with colleagues and solve complex coastal engineering problems.

EDUCATIONAL BACKGROUND

Ph.D. in Coastal Engineering

2020

University of Florida

- Numerical modelling of morphodynamics in coastal environments

M.Sc in Coastal Engineering

2017

Delft University of Technology (TU Delft), The Netherlands

Erasmus Mundus Program in Coastal and Marine Engineering and Management (CoMEM)

Norwegian University of Science and Technology, Norway (Semester 1)
 TU Delft, The Netherlands (Semester 2)
 2015 (fall)
 2016 (spring)

- 10 Dent, The Netherlands (Semester 2)

2016 (spring)

University of Southampton, The United Kingdom (Semester 3)Deltares/TU Delft, The Netherlands (Semester 4)

2017 (spring)

B.Sc in Civil Engineering (Honors)

2014

University of Moratuwa, Sri Lanka

CAREER HISTORY

Postdoctoral Research Associate

- College of Engineering, University of Georgia

2021- present

Project: Network for Engineering with Nature (N-EWN)

Graduate Research Assistant

- Department of Civil and Coastal Engineering, University of Florida

2018-2020

PhD thesis: Improving the modeling of onshore sandbar migration and beach recovery

Internship

- Deltares, The Netherlands

2017 (spring)

Masters thesis: Wave transformation in mangrove coasts, A model study using XBeach

- Coastal Research Centre (FZK), Hannover, Germany

2016 (summer)

Analytical superposition of nonlinear waves in shallow water within a nonlinear Fourier transform using MATLAB

Lecturer on Contract, University of Moratuwa, Sri Lanka

2017 & 2014-2015

- Hydraulic Engineering Division at the Department of Civil Engineering

Visiting Lecturer

Research Assistant

- Colombo school of Construction and Technology (Affiliated with University of Salford, UK)

2015 2015

- City and Guilds Level 6 modules in graduate diploma in Engineering at SEI Campus Sri Lanka

2014 March

- Tsunami vulnerability study of coastal region in Sri Lanka

Trainee Civil Engineer

May-Oct 2012

- Urgent renovation works at Unity Container Terminal, Port of Colombo, Sri Lanka

EXPERIENCES AND SKILLS

Numerical modelling

- Expert proficiency in numerical modelling with XBeach
- Proficiency in numerical modelling with Delft3D and SWASH
- Proficiency with Machine Learning models and applications

Model development

- Expert proficiency in implementation and development in XBeach and SWASH source codes Implementing a cross-shore process based morphodynamic model to study sandbar migrations
- in MATLAB

Computer programming skills

- Expert proficiency in programming with MATLAB and Fortran
- Proficiency in programming with Python
- Experience in working with supercomputer architecture and data handling

Field work experience

- Data collection using ADCP and drone imagery at Sapelo Island Estuarine Reserve, GA

NON-ACADEMIC QUALIFICATIONS

Mayor of the graduate student housing - Maguire village, University of Florida	2019- 2020
Junior treasurer - Civil Engineering Society (CES) - University of Moratuwa	2013-2014
Debating	
- Participation at Hulsdorf Debate, Sri Lanka Law College	2012
- Participation and Octo finalist at the Xth NLS Debating Tournament - Bangalore, India	2012
Scouting	
- Participation to Sri Lanka Model United Nations, Colombo, Sri Lanka	2004
- Participation to SAARC Friendship Camp- Thimpu, Bhutan	2002

PUBLICATIONS

	Hewageegana V.H, A. Canestrelli, Numerical modeling of the influence of tides on cross-shore			
-	sediment dynamics of dissipative beaches under moderate wave conditions, Continental Shelf Research,			
	https://doi.org/10.1016/j.csr.2021.104381.			

2021

2021

Hewageegana V.H and A. Canestrelli On the predictive skill of morphodynamic models for onshore sandbar migration *Earth Surf Processes and Landforms*. 2021. https://doi.org/10.1002/esp.5079

POSTER PRESENTATIONS

	Hewageegana, V.H, "Wave Transformation through mangrove coasts – A model study using XBeach	
-	Surfbeat". Poster session presented at XBeachX conference, Delft Software Days 2017, Delft, NL	2017
	Hewageegana, V. H., and A. Canestrelli. "Numerical modeling of the influence of tides on beach	
-	morphodynamics." AGU Fall Meeting. 2018, Washington D.C.	2018

ORAL PRESENTATIONS

	LE I RECEIVITION	
-	Hewageegana, V.H, Jayawardena, D.M.S.S, Ratnasooriya, A.H.R. "Tsunami Hazards: Energy Dissipation and Impact Mitigation Using Bio Shields" Civil Engineering Research Symposium, SL	2014
-	Hewageegana, V. H., and A. Canestrelli." Tidal influence on coastal morphodynamics" Science by the shore symposium 2018, Whitney Laboratory, St Augustine, FL	2018
-	Hewageegana, V. H., and A. Canestrelli. "On the predictability of sandbar migration rates: Duck, NC case" 6th Young Coastal Scientists and Engineers Conference – Americas, Corvallis, OR	2019
-	Hewageegana, V. H., and A. Canestrelli. "On the ability of 2D, quasi-3D and 3D numeric models to predict sandbar migration: The Duck, NC case" AGU Fall Meeting 2019, San Francisco, CA	2019
-	Hewageegana V.H and A. Canestrelli "A simplified method to predict onshore sandbar migration: The Duck, NC case "Ocean Sciences meeting 2020, San Diego, CA	2020
-	Hewageegana V.H and A. Canestrelli "Predicting sandbar migration using a phase resolving 3D numerical model" AGU Fall Meeting 2020, Virtual	2020
VO.	DVCHOPC AND CVMPOCITIMS	

WORKSHOPS AND SYMPOSIUMS

-	XBeach advanced course, Delft Software Days 2017, Delft, Netherlands	2017
-	DUNEX Coastal Processes and Engineering Training course, Field Research Facility, Duck, NC	2019

PERSONAL DETAILS

Date of birth December 11th 1989

Gender Male Nationality Sri Lankan

NON-RELATED REFEREES

Alberto Canestrelli, Ph.D

Assistant Professor

Department of Civil and Coastal Engineering
University of Florida

alberto.canestrelli@essie.ufl.edu

Ap van Dongeren, Ph.D

Specialist

Coastal Morphodynamics

Deltares, The Netherlands

ap.vandongeren@deltares.nl