

# Sandesh Lamsal

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in sandslamsal



## Employment History

- 2022 – Present     **Research/Teaching Assistant**, Civil and Architectural Engineering, University of Miami, Coral Gables, FL
- 2021 – 2022     **Graduate Teaching Assistant**, Texas Tech University, Lubbock, TX
- 2019 – 2021     **Project Manager**, Isotech Consultants, Kathmandu, Nepal
- 2017 – 2019     **Civil Engineer**, Isotech Consultants, Kathmandu, Nepal
- 2017 – 2021     **Civil Structural Engineer (Part-time)**, Tensile Structures (P.) Ltd., Kathmandu, Nepal

## Education

- 2022 – Present     **Ph.D., Civil Engineering (Structures)** University of Miami, Coral Gables, FL
- 2021 – 2022     **M.S., Civil Engineering (Structures)** Texas Tech University, Lubbock, TX
- 2013 – 2017     **Bachelor's Degree, Civil Engineering** Tribhuvan University, Kathmandu, Nepal

## Research Publications

### Conference Proceedings

- 1 S. Lamsal, G. Aguilar, P. Tan, *et al.*, "Quantifying wave energy dissipation in perforated breakwater structures: An experimental study with porous hexagonal seahive configurations," 2024.
- 2 B. K. Norris, B. Reguero, C. G. Lasserre, *et al.*, "Reefense: Design considerations in developing low-crested structures with reef restoration for coastal defense," 2024.



## Skills

- Languages     **Fluent in Nepali (Native Speaker), English.**
- Coding     **MATLAB and Python, Machine Learning (Supervised Learning, Unsupervised Learning, Reinforcement Learning, Deep Learning, TensorFlow, PyTorch), Regression, Classification, Clustering, Neural Networks)**
- Software     **CSI SAP2000, ETABS, ABAQUS, AutoCAD, REVIT**
- Analysis     **Earthquake Load, Wind Load, ASCE 7-16, ACI 318-19, FEM Linear Analysis**
- Design     **Reinforced Concrete Building Design, Steel Building Design, Steel Connection Design, 2D and 3D Drafting of Building and Bridges with Rebars and Steel Shop Drawing Preparation**
- Research     **Structural Engineering, Coastal Engineering, Morphological Investigation, Physical Testing, Wind and Wave Loading Effects, Building Design Codes, Resilience.**
- Leadership     **Team Leadership, Project Management, Collaboration.**





## Miscellaneous Experience

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### Awards and Achievements

- 2021.08.12     **Engaged Scholarship Award**, Texas Tech University, TX, USA
-  **Edward E. Whitacre Jr. College of Engineering Merit Based Award**, Texas Tech University, TX, USA


### Certifications

- 2024-02-23     **OpenFoam CFD**, OpenFoam Ltd. UK
- 2023-12-01     **Machine Learning**, University of Miami
- 2019-07-01     **Bridge Design Certification**, Engineering Helpline Pvt. Ltd.
- 2018-02-01     **Professional Engineering Certificate**, Nepal Engineering Council


## References

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### Dr. Landolf Rhode-Barbarigos

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Department of Civil and Architectural Engineering  
University of Miami,  
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### Dr. Brian Haus

Professor  
Department Chair of Ocean Sciences  
University of Miami,  
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