

Amrita Mohanty | Atlanta, Georgia, USA-30363

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EDUCATION

PROGRAM	INSTITUTION	%/CGPA	COMPLETION
Masters of Science (Civil Engineering: Geosystems)	Georgia Institute of Technology, Atlanta,GA	4/4 (until 1 st Semester)	2022
Bachelor of Technology (Civil Engineering)	College of Engineering & Technology,Bhubaneswar	9.1/10	2020

ACADEMIC ACHIEVEMENTS

- Department and University Ranking of 1st Position in University Bachelor’s Degree Examinations with highest CGPA score of 9.1/10
- Shortlisted for Gold Medal Award in University Examinations for exceptional academic performance

RELEVANT COURSES/LABS

Environmental Geotechnics, Highway and Transportation Lab, Survey Lab, Fluid Mechanics and Hydraulic Machines Lab, Water Supply Engineering Lab, Mechanics Lab, Geotechnical Lab, Materials Testing Lab, Advanced Structural Lab, Foundation Lab

TECHNICAL SKILLS

C Programming, MATLAB, AUTOCAD, STAAD-Pro, GIS, Microsoft Office, LINUX OS, Machine Learning, Python, R Programing, EPANET

INTERNSHIPS/PROFESSIONAL EXPERIENCE

Master’s thesis work:

Advisor: Professor Dr. Jorge Macedo

August 2021-

- Research to focus on cyclic shear response of fine grained soils

Book reading/proof read editing work:

Supervisor/Author: Professor (Dr.) Devendra Narain Singh

June - October 2020

- Have received the opportunity to be in collaborative book editing team for a pioneering research-based book, soon to be published, by Dr. Devendra Narain Singh of the Department of Civil Engineering, IIT Bombay
- The research-based book is based on the diversified topics of Environmental Geotechnology \

Bachelor's Thesis at Department of Civil Engineering, College of Engineering & Technology, BBSR, Govt. of Odisha

Advisor: Professor (Dr.) Deba Prakash Satapathy

October-March 2020

- Verification of analytical formula for leachate concentration for one dimensional flow with time by using Finite Element Method
- Comparative analysis of acquired data from FEM with Advection Dispersion formula invented by OGATA and Banks (1961)
- Use of MATLAB as a tool for solving the FEM equations

Visiting Scholar at Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, Illinois, United States of America

Advisor: Professor (Dr.) Tugce Baser

May-August 2019

- Quantification of the effects of Freeze-Thaw cycles on hydraulic properties of soil based on Van Genuchten (1980) model
- Prediction of Soil Water Retention Curves using Grain Size Distribution and Pore Size Distribution
- Report/Survey submitted successfully after visiting and investigating flood hit areas of Missouri state of USA as part of GEER Team along with Professor Dr. Baser

Project Assistant at Environmental-Geotechnical Laboratory, IIT Bombay, Maharashtra

Advisor: Professor (Dr.) D.N.Singh

May – July 2018

- Analysis of a research project concerning the landfill mining activities in and around the city of Mumbai, Maharashtra
- The goal of this project was the characterization of soil-like particles found in the land fill mines
- The characterization included the following sub-divisions:
 - Physical: particle size distribution, index properties, specific surface area, specific gravity
 - Chemical: CEC, ICP, Gas Chromatography Techniques
 - Biological: Cryo-SEM

Training at South Eastern Railways Civil Engineering Training Center, Kharagpur

June-July 2017

- Interned in the Soil Testing Laboratory of the South Eastern Railways Headquarters, Garden Reach
- Supervised the water filtration plant at Garden Reach Railway colony

POSITIONS OF RESPONSIBILITY

Head of Cetadel	• Head of the content writing team of Cetadel, the creative writing club of my undergrad college
Student Volunteer	• Volunteered at the 26 th National Science Congress for Children on behalf of “Joy of Learning Foundation”, New Delhi, India

STANDARDIZED TEST SCORES:

GRE: 156(Q) 154(V) 5(AW)

TOEFL iBT: 111/120