Curriculum Vitae

Name	**:** Dr. CHIRANJIB PRASAD SARMA
Father's/Mother's/ Husband's Name	**:** Late Dr. Jwala Prasad Sarma
Mother's/ Husband's Name	**:** Mrs. Umarani Sarma
Current Designation	**:** Assistant Professor (Contractual)
Department	**:** Civil Engineering Department
Institute	**:** Jorhat Engineering College
Address for correspondence	**:** Department of Civil Engineering Jorhat Engineering College Jorhat -785007 (Assam)
Permanent address	**:** S/O Late Dr. Dr. Jwala Prasad Sarma Foothill of Kamakhya, Guwahati Nursery Kamakhya Temple Road, Lalita Nagar Guwahati -781009 (Assam)
Telephone No	**:** +91 78962 75431
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Research Degree:

Degree	Name of the University	Date of award	Title
Ph. D	Indian Institute of Technology Guwahati	19th February, 2020	Local and Regional Scale Landslide Hazard Analyses of Guwahati City, India

Academics:

Year	*Degree*	*Institute*	*University*	*Specialization*
2012	M.E.	Assam Engineering College, Guwahati	Gauhati University	Soil Mechanics and Foundation Engineering
2009	B.E.	Assam Engineering College, Guwahati	Gauhati University	Civil Engineering

Details of Teaching/Research/Academic experience:

Designation	Employer	Period of Service
Assistant Professor	Don Bosco College of Engineering and Technology, Azara, Guwahati – 781017	8th August, 2011 to 10th January, 2013
Assistant Professor (Contractual)	Jorhat Engineering College, Garmur, Jorhat, Assam - 785007	9th March, 2020 onwards

Details of publication

Journal Publications:

- **Sarma, C. P.**, Dey, A. and Murali Krishna, A. (2020), "Influence of digital elevation models on the simulation of rainfall-induced landslides in the hillslopes of Guwahati, India" *Engineering Geology*. (DoI: 10.1016/j.enggeo.2020.105523)

- Taipodia, J., Boga, M., Dey, A., Acharyya, R., **Sarma, C. P.** (2020) "One- and Two-Dimensional Active MASW Survey for Subsurface Profiling of Jia Bharali River Bed, Assam, India, for a Proposed 1.2-Km Road Bridge", *Practice Periodical on Structural Design and Construction.* (DoI: 10.1061/(ASCE)SC.1943-5576.0000495)

Book Chapters:

- **Sarma, C. P.**, Dey, A. and Murali Krishna, A. (2019), "Investigation of rainfall induced landslides at hillslopes of Guwahati region, Assam" In: Katsumi T., Murali Krishna, A. (Eds.) *Developments in Geotechnical Engineering, Geotechnics for Natural Disaster Mitigation and Management*, Springer.

- **Sarma C.P.**, Murali Krishna A., Dey A. (2019) "Geotechnical characterization of hillslope soils of Guwahati region" In: Stalin V., Muttharam M. (eds) *Geotechnical Characterisation and Geoenvironmental Engineering. Lecture Notes in Civil Engineering, vol 16.* Springer, Singapore

- **Sarma, C. P.**, Dey, A. and Murali Krishna, A. (2015), "Probabilistic slope stability analysis considering spatial variability of soil properties: Influence of correlation length" in Oka, Murakami, Uzuoka & Kimoto (Eds.), *Computer Methods and Recent Advances in Geomechanics*, Taylor & Francis Group, pp. 1125 – 1130

Conference Publications:

- **Sarma, C. P.**, Murali Krishna, A. and Dey, A. (2017), "Landslide evolution through catastrophe theory based on planar–slip slope model" *52nd Indian Geotechnical Conference (GeoNEst-IGC-2017),* Guwahati, India, pp. 1-4.

- **Sarma, C. P.**, Murali Krishna, A. and Dey, A. (2015), "Landslide hazard assessment of Guwahati region using physically based models," *6th Annual Conference of the International Society for Integrated Disaster Risk Management – Disaster Risk Reduction: Challenges and Opportunities for Sustainable Growth,* New Delhi, India

- **Sarma, C. P.**, Dey, A. and Murali Krishna, A. (2015), "Landslide Early Warning based on Geotechnical Slope Stability Model for the Guwahati Region," *50th Indian Geotechnical Conference*, Pune, India

Area of Specialization:
- Geotechnical Engineering;
- Rainfall induced landslides on Unsaturated Natural Hill slopes

Areas of Research Interest:
- Landslide Susceptibility and Hazard Analysis
- Landslide Preventive and Mitigation Measures
- Characterization of geo-materials (Soils and Rocks)
- Uncertainty in Geotechnical Analysis
- Probabilistic / Stochastic Simulations - Reliability Analysis in Geotechnical Analysis
- Remote Sensing and GIS for Hydrogeological studies
- Soil-Structure-Foundation Interaction
- Reinforced Soil Structures
- Engineering behaviour of Unsaturated soils

M.Tech Dissertation Supervised

Sl No.	Name of Student	Dissertation	Year	Status
1	Sahin Mazumdar	Assessing Rainfall and Run-Off Induced Soil Erosion in The Hilly Regions of The North-East India	2022	Ongoing

Workshops attended:
- International School on "Landslide Risk Assessment and Mitigation", LARAM 2014. University of Salerno, Fisciano, Salerno, ITALY (scholarship funding by LARAM and IITG)

- AICTE sponsored QIP short-term course on "Integrated Solid Waste Management", organized by Indian Institute of Technology Guwahati, 9th – 13th January, 2012

- UK–India Education and Research Initiative (UKIERI) Workshop on "Seismic Requalification of Pile Supported Structures", 2015. Organized by Indian Institute of

Technology Guwahati in association with Indian Geotechnical Society, Guwahati Chapter (NE)

- TEQIP short-term course on "Rock Engineering for Infrastructural Development", organized by Indian Institute of Technology Guwahati, 5th – 8th April,2016

- Short Term Training on "Earthquake Resistant Structures and Retrofitting Techniques", 2011. Organized by Department of Civil Engineering, Assam Engineering College, Guwahati

- National Seminar on "Seismic Hazards and Mitigation of North East India", 2011. Organized by Environmental Watch and Management Institute, Guwahati – 781022, at Maniram Dewan Trade Centre, Betkuchi, Guwahati - 781035

- National Level Workshop on "Current Application of Remote Sensing & GIS", 2015. Organized by Department of Earth Science, University of Science and Technology, Meghalaya in collaboration with North Eastern Space Application Centre, Meghalaya, Department of Space, Government of India.

Software Proficiency:

- Computer Aided design and planning – **AutoCAD, FreeCAD**
- Finite Element/Difference Analysis – **ANSYS, Plaxis, Itasca FLAC**
- Geotechnical Software Suite – **GeoStudio, RocScience**
- GIS and Remote Sensing – **ILWIS, QGIS, SAGA-GIS**
- Programming – **GNU Octave/Scilab**
- Spatially Distributed Landslide Simulation Models **– TRIGRS / SCOOPS 3D**