BIOGRAPHICAL SKETCH

NAME: Oommen, Thomas

POSITION TITLE & INSTITUTION: Professor, Geological and Mining Engineering and Sciences, Michigan Technological University

(a) PROFESSIONAL PREPARATION

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
Bangalore University	Bangalore, India	Civil Engineering	BCE	1999
University of Alaska Fairbanks	Fairbanks, AK	Systems Engineering	MS	2006
Tufts University	Medford, MA	Geotechnical & Geoenvironmental	PHD	2009

(b) APPOINTMENTS

2020 - present Professor, Geological and Mining Engineering and Sciences, Michigan Technological University, Houghton, MI

2020 - present Committee Research Coordinator, Transportation Research Board AKG 60 Geotechnical Instrumentation and Modeling

2019 - present Director, Computational Science and Engineering, Michigan Tech Univ

2019 - present Editorial Advisory Board Chair, Environmental & Engineering Geoscience

2019 - present Consultant on geohazards, World Bank

2021 - present Chair, Geological Society of America, Environmental and Engineering Geology

2022 - present Chair, ASCE Geo-Institute Engg Geology & Site Characterization Committee 2015 - 2020 Associate Professor, Geological & Mining Engg & Sci, Michigan Tech Univ

2010 - 2015 Assistant Professor, Geological & Mining Engg & Sci, Michigan Tech Univ

2009 - 2010 Postdoctoral associate, Geotechnical & Geoenvironmental, Tufts University

2007 - 2009 Research/Teaching Assistant, Tufts University

2005 - 2006 Research/Teaching Assistant, University of Alaska Fairbanks

2004 - 2005 Director, Infrastructure Development, Bharat Susamachar Samiti

2004 - 2004 Project Manager/Technical Consultant, USAID projects, Shelter for Life International, Kabal

1999 - 2004 Project Engineer, Bharat Susamachar Samiti

(c) PRODUCTS

Products Most Closely Related to the Proposed Project

1. Tibaldi A, Oppizzi P, Gierke J, Oommen T, Tsereteli N, Gogoladze Z. Landslides near Enguri dam (Caucasus, Georgia) and possible seismotectonic effects. Natural Hazards and Earth System Sciences. 2019; 19(1):71-91. issn: 1561-8633

2. Vishnu C, Sajinkumar K, Oommen T, Coffman R, Thrivikramji K, Rani V, Keerthy S. Satellite-based assessment of the August 2018 flood in parts of Kerala, India. Geomatics, Natural Hazards

and Risk. 2019.

3. Bouali E, Oommen T, Escobar-Wolf R. Evidence of instability in previously-mapped landslides as measured using gps, optical, and sar data between 2007 and 2017: a case study in the portuguese bend landslide complex, california. Remote Sensing. 2019; 11(8):937.
4. Weidner L, DePrekel K, Oommen T, Vitton S. Investigating large landslides along a river valley using combined physical, statistical, and hydrologic modeling. Engineering Geology. 2019; 259:105169. issn: 0013-7952
5. Sajinkumar K, Bincy H, Bouali E, Oommen T, Vishnu C, Anilkumar Y, Thrivikramji K, Keerthy S. Picturing beach erosion and deposition trends using PSInSAR: an example from the non-barred southern west coast of India. Wetlands Ecology and Management. 2020; :1-14.

Other Significant Products, Whether or Not Related to the Proposed Project

1. Bouali E, Oommen T, Escobar-Wolf R. Mapping of slow landslides on the Palos Verdes Peninsula using the California landslide inventory and persistent scatterer interferometry. Landslides. 2018; 15(3):439-452.
2. Naidu S, Sajinkumar K, Oommen T, Anuja V, Samuel R, Muraleedharan C. Early warning system for shallow landslides using rainfall threshold and slope stability analysis. Geoscience Frontiers. 2018; 9(6):1871-1882. issn: 1674-9871
3. Oommen T, Cobin P, Gierke J, Sajinkumar K. Significance of variable selection and scaling issues for probabilistic modeling of rainfall-induced landslide susceptibility. Spatial Information Research. 2018; 26(1):21-31. issn: 2366-3294
4. Weidner L, Oommen T, Escobar-Wolf R, Sajinkumar K, Samuel R. Regional-scale back-analysis using TRIGRS: an approach to advance landslide hazard modeling and prediction in sparse data regions. Landslides. 2018; 15(12):2343-2356. issn: 1612-5118
5. Stark TD, Oommen T, Ning Z. Remote Sensing for Monitoring Embankments, Dams, and Slopes: Recent Advances. Reston, VA: American Society of Civil Engineers; 2021. 114p.

(d) SYNERGISTIC ACTIVITIES

1. Led the U.S research team for the floods in Kerala, India for the NSF funded Geotechnical Extreme Event Reconnaissance Survey.
2. Co-authoring a book on the use of remote sensing for monitoring dams embankments and slopes for ASCE
3. Member, AGU Natural Hazards Section
4. Member, AEG Landslide Technical Working Group
5. Reviewer for several international journals on the interdisciplinary topics of civil, geotechnical, geoenvironmental, agricultural and biological engineering, geophysics, natural hazards, and mathematical geosciences.