2022: Dr Jorge Macedo

Dr. Jorge Macedo, Ph.D., P.E., is the Frederick Olmsted Early Career Professor in the School of Civil and Environmental Engineering at the Georgia Institute of Technology (Georgia Tech), where he joined the faculty in 2018. He received M.S. (2014) and Ph.D. (2017) degrees from the University of California at Berkeley, all majoring in civil engineering. Dr. Macedo practiced as a geotechnical engineer for six years (2008-2013), working on major mining, oil, and gas projects in Peru, Argentina, Chile, and Brazil from conception to detailed engineering design, and he holds P.E. licenses in California and Peru. Dr. Macedo's main research areas are geotechnical earthquake engineering, data-driven risk engineering applied to multi-hazards, and mining geotechnics. He is an associate editor of Earthquake Spectra and guest editor of the Bulletin of Earthquake Engineering.

Dr. Macedo's research aims to make geotechnical infrastructure and cities more resilient against natural (e.g., earthquakes) and man-made hazards, saving lives, and reducing economic losses. Dr. Macedo is a recipient of the 2022 States National Science Foundation CAREER award for his work at the convergence of tailings geotechnics and data science. He also received the 2022 Young Faculty Research Award (Georgia Tech), the 2022 ASCE Outstanding Reviewer award, and the 2023 ISSMGE- TC20 Young Researcher Award. Dr. Macedo is also the founder and chair of the TAILENG (TAilings and IndustriaL waste ENGineering) center, which works on improving the resilience of infrastructure in the mining and power industries.
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