

# Vergaray Luis

*Ph.D.(c) in Civil Engineering*

*Critical State of Soil Mechanics ▪ Mine Tailings ▪ Soil Liquefaction ▪ Soil Dynamics ▪ Seismic Hazard ▪ Earthquake Engineering ▪ Machine Learning ▪ GIS*

## Education

- 2019–2023 **Ph.D.(c) in Civil Engineering**, *Georgia Institute of Technology*, USA, .  
Geosystems Department
- 2012–2016 **B.Sc. in Civil Engineering**, *National University of Engineering*, Peru, .  
School of Civil Engineering

## Relevant Coursework

- Georgia Tech **CEE**, *Soil Mechanics, Critical State of Soil Mechanics, Theoretical Geomechanics, In situ Testing, Laboratory Characterization, Ground Modification, and Analysis of Earth Structures.*
- CSE**, *Numerical Linear Algebra, Computational Data Analytics.*
- EAS**, *Introduction to Seismology.*

## Experience

### Regular

- 2016–2019 **Junior Engineer**, *ZER Geosystem*.  
Lima, Peru.  
Achievements:
- Monitoring processing and Interpretation Of field Explorations in perforations, testing of Penetration Standard, Seismic geophysical tests: MASW, MAM, seismic refraction, measurement of microtremors y MASW 2D
  - Develop of studies geotechnical for Shallow and deep foundation purposes, paving and urban habilitation.
  - Analysis of slope stability in soils and rock using the limit equilibrium method.
  - Development Of Seismic hazard assessments: Probabilistic, deterministic, disaggregation, spectral Matching and Seismic site response analysis.
  - Soil liquefaction Analysis and numerical modeling using FEM.

### Vocational

- 2016–2018 **Teacher Assistant**, *National University of Engineering*, Lima, Peru.  
Applied Geophysics to Civil Engineering

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## Co Curricular

- Workshop **Fourth International Conference on Heap Leach Mining Solutions**, by *Edu-Mine*, Lima, 10-2016.
- Workshop **World Engineering Conference on Disaster Risk Reduction**, by *World Federation of Engineering Organizations*, Lima, 11-2016.
- Workshop **New technologies in deep foundations**, by *INCONTEC*, Lima, 11-2017.
- Online Course **Development of a national seismic hazard project**, by *National Geographic Institute of Spain*, 04-2018.
- Workshop **2th International Course: Geotechnical and seismic engineering with applications to mining projects**, by *BERKIL*, Lima, 11-2016.

## Languages

English Fluent  
Spanish Native

## Computer skills

Geotechnical Software	Slide, RocLab, GGU Stability, DeepSoil, Strata	Signal Processing	SeismoSignal, SeismoMatch, SeismoSpect, Geopsy
Simulation	Plaxis, RS2, FLAC	Application	MATLAB
GIS	ArcGIS, Q-GIS	CAD	AutoCAD, Civil 3D

## Achievements

- Recipient of Bicentennial Generation Graduate Scholarship from Peruvian Government for Ph.D.'s studies at Georgia Tech (2019–2023)).
- First Place in Geotechnical Engineering - Class of 2016, National University of engineering, Peru.