LINA-MARÍA PUA

Atlanta, USA lpita3@gatech.edu

EDUCATION

- Ph.D. student in Civil Engineering, Georgia Institute of Technology (Atlanta, USA), January 2021- Present
- M.Sc. (Cum Laude) in Civil Engineering, emphasis in geotechnical engineering, Los Andes University (Bogotá, Colombia), 2017 - 2019
- B.Sc. in Civil Engineering, Los Andes University (Bogotá, Colombia), 2012 2017
- B.Sc. in Geosciences, Los Andes University (Bogotá, Colombia), 2012 2017

RESEARCH

- ICT (Illinois Center for Transportation) project for cone penetration testing in Illinois, Ph.D. student, Georgia Institute of Technology, January 2021- Present.
- Wave propagation on heterogeneous media, Ph.D. student, Georgia Institute of Technology, January 2021-Present.
- **Dynamic properties of clay samples with controlled variability**, project engineer, Los Andes University, July 2019 January 2021.
- Physical modeling of inherent soil variability in three dimensions, graduate thesis, Los Andes University, January 2018 July 2019
- Influence of water content and suction on electrical properties of partially saturated samples of shale, undergraduate thesis for Civil Engineering and Geosciences, Los Andes University, July 2016 November 2016
- Field geology project in the peninsula of Azuero, Panama, undergraduate student, Los Andes University, July 2016 November 2016

PUBLICATIONS

- Pua, L.M, Villacreses, J.P., Macedo, J., Caicedo, B., and Yépez, F. 2021. A bounding approach to estimate the shear modulus of spatially variable soil materials. *Soil Dynamics and Earthquake Engineering (SDEE)*. Under review.
- Pua, L.M, and Caicedo, B. 2020. Reproducing the inherent variability of soils using a three-dimensional printer. International Journal of Physical Modelling in Geotechnics.
- Pua, L.M, Caicedo, B., Castillo, D., and Caro, S. 2018. Development of a 3D clay printer for the preparation of heterogeneous models. *In Physical Modelling in geotechnics, vol. 1, 155-162*.

TEACHING

- **Mentor on VIP group (Vertically Integrated Projects)**, Georgia Institute of Technology. January 2021 May 2021. Mentorship to undergraduate students working on a CPT data clustering project.
- Graduate Teaching Assistant, Los Andes University, July 2017 May 2019. Geotechnical structures course.

- Civil Engineering Academic Assistance (Civil engineering department), Los Andes University, January 2016
 May 2017. Geotechnical structures (3 consecutive semesters) and fundamentals of geotechnics (2 consecutive semesters).
- **Geoscience Academic Assistance (Geoscience department)**, Los Andes University January 2015 November 2015. Geodynamics (1 semester) and Continuum mechanics (1 semester).

HONORS AND AWARDS

- **External Advisory Board Fellowship (EAB).** School of Civil and Environmental Engineering Fellowship, Georgia Institute of Technology. 2021.
- Cum Laude degree for the Master of Science in Civil Engineering. Los Andes University. Awarded to students with a GPA that is within 3 percent higher in the last 5 years of the faculty of engineering. 2019.
- **Distinction for academic excellence in Geoscience.** Los Andes University. Awarded to the student with the highest semiannual GPA. 2012.

SOFTWARE SKILLS

MATLAB, Plaxis, AutoCAD Civil 3D, Illustrator, MS Office.

LANGUAGES

Spanish (Native), English (Advanced High), French (Intermediate)