

ABET FACULTY VITAE (2 Page)

Name: Miguel A. Pando

Education:

- Ph.D., Civil Engineering, Virginia Tech, 2003
- M.S., Civil Engineering, University of Alberta, Canada, 1995
- B.S., Civil Engineering, Javeriana University, Colombia, 1991

Academic Experience:

- UNC Charlotte, Associate Professor (tenured), July 2015 – Present, Full-Time
- UNC Charlotte, Associate Professor (tenure track), August 2010 – July 2015, Full-Time
- U. of Puerto Rico at Mayagüez, Director, Geotechnical Laboratory, June 2004 – July 2010, Full-Time
- U. of Puerto Rico at Mayagüez, Associate Professor, July 2006 – August 2010, Full-Time
- U. of Puerto Rico at Mayagüez, Assistant Professor, February 2003 – July 2006, Full-Time

Non-Academic Experience:

- AMEC Earth & Environmental, Edmonton, Canada, Project Engineer, September 1994 – July 1997, Full-Time.
- Thurber Engineering, Toronto, Canada, Project Engineer, July 1997 – July 1998, Full-Time.
- Geopier Foundations, Project Engineer, 2000 – 2001, Part-Time
- EM Modular Structures, Bogota, Colombia, Jr. Structural Engineer (EIT), July 1991 – July 1992.
- Bateman & Associates, Bogota, Colombia, Geotechnical Engineering Intern, January 1991 – July 1991.

Certifications or Professional Registrations:

- P.Eng. Ontario, Canada
- P.Eng., Alberta, Canada
- Licensed Engineer, Colombia.

Current Membership in Professional Organizations

- American Society of Civil Engineers (ASCE) and Deep Foundations Institute (DFI)
- Earthquake Engineering Research Institute (EERI)
- American Society for Engineering Education (ASEE)
- North American Geosynthetics Society (NAGS)
- Canadian Geotechnical Society (CGS)
- American Society for Testing and Materials (ASTM)

Honors and Awards:

- Best poster award, WOCA 2007, with several graduate students from UPRM.
- WPA C2P2 (Coal Combustion Products Partnership) research award, co-recipient with UPRM colleague Dr. S. Hwang and graduate students, October 2006.
- Outstanding Faculty Award, UPRM, Civil Engineering Department, Academic year 2004-2005.
- Doctoral fellowship award, Canada NSERC 1998 (declined to study at Virginia Tech).
- COLFUTURO Scholar, 1992-1994, Colombian fellowship for international MS studies abroad.

- Highest GPA award, graduating CE class of 1991, Javeriana University, Bogota, Colombia.
- Best undergraduate thesis award, CE class of 1991, Javeriana University, Bogota Colombia.

Service Activities (Within and Outside of the Institution):

- Member, Embankments, Dams, and Slopes Committee, ASCE-Geo-Institute, June 2010 – Present.
- Member, TRB Soil & Rock Properties Committee (AFP30), Transportation Research Board, National Research Council, July 2006 – July 2015.
- Member, TRB Foundations of Bridges and Other Structures Committee (AFS30), Transportation Research Board, National Research Council, July 2008 – July 2014.
- Member, ASTM Committee D18 (Soil and Rock) and Subcommittees D18.05 (Strength and Compressibility of Soils), D18.09 (Cyclic and Dynamic Properties of Soils), and D18.11 (Deep Foundations).
- Session Chair, Session: “Characterization of Coal Combustion Residuals”, with Dr. John Daniels, for ASCE Geo-Congress 2014, Atlanta, GA.
- Co-editor, Proceedings 2013 ASCE Geocongress

Select Publications and Presentations (Last Five Years):

1. Aguilar, R., Nakamatsu, J. Ramírez, E., Elgegren, M., Ayarza, J., Kim, S., Pando, M.A., Ortega-San-Martin, L. (2016), “The potential use of chitosan as a biopolymer additive for enhanced mechanical properties and water resistance of earthen construction”, *Journal of Construction & Building Materials*, Elsevier, Vol. 114, pp. 625-637.
2. Sylvain, M., Pando, M., Whelan, M., Ogunro, V., Park, Y., and Koch, T. (2015) "Static Load Test to Assess Vertical Load Capacity of Steel Sheet Piles for Bridge Abutments – Initial Assessment," XV Panamerican Conf. on Soil Mechanics and Geotechnical Engineering, Bs As, Argentina, Nov. 15-18.
3. Rice, C., Pando, M., Whelan, M.J., and Ogunro, V. (2014) \Vertical Load Capacity of Steel Sheet Piles for Bridge Abutments - Preliminary Assessment for Test Site in Sand," International Conference on Short and Medium Span Bridges, Calgary, Alberta.
4. Garcia, M., Pando, M.A., and *Celis, H. (2014), “Characterization Challenges of Shredded Recycled Tires as a Sustainable Retaining Wall Backfill”, ASCE Geo-Congress 2014, ASCE Geotechnical Special Publication (GSP),10 p.
5. Perdomo, J. and Pando, M.A. (2014), “Incorporating Natural Hazards and Mitigation Strategies Using Information Technology in the Civil Engineering Curriculum”, *Journal of Professional Issues in Engineering Education and Practice*, ASCE, Vol. 140, No. 1, 10 p.
6. Cunha, R. and Pando, M.A. (2013), “Influence of Pile-Soil-Raft Parameters on the Behavior of Piled Raft and Conventional Piled Group Foundations”, *Soils and Rock*, Vol. 36, No. 1, 21-35
7. Pappusetty, D.*, and Pando, M.A. (2013), “Numerical Evaluation of Long Term Monopile Head Behavior for Ocean Energy Converters under Sustained Low Amplitude Lateral Loading”, *International Journal of Civil and Structural Engineering*, Vol. 3, No. 4, 669-684.

Recent Professional Development Activities:

- Panamerican geotechnical conference, Buenos Aires, Argentina, Fall 2015.
- Plaxis short course, UC Berkeley, May 2015.
- EERI webinars Fall 2015.
- Geosynthetics Education Program, Educate the Educator, Austin TX, July 28-29, 2015.

