







My name is Alvaro Boiero, I am a Civil Engineer and I have a Master degree in Earth Sciences. I am also lecturer of Soil Mechanics.

I am currently at the Polytechnic University of Catalonia - BARCELONATECH, where I am a PhD candidate in Geotechnical Engineering. Here I am working on research related to ground improvement, which encompasses the analysis of shear strength, stiffness, and sustainable development in ground improvement activities.

Furthermore, I participate as invited lecturer in specialized professional courses.

In addition, I have a blog called "geo", in which I periodically publish relevant information on the main topics of Geotechnical Engineering.

Work
Experience

2022 - Today CONSULTANT

Geotechnical Engineering

https://geo-webonline.com/

Geotechnical Engineering Consultancy and Geotechnical Studies

2020 - Today SÍSMICA ADIESTRAMIENTO

Invited Lecturer

https://www.sismica-adiestramiento.com/ Foundations - Slope Stability - Geotechnical Projects

2009 – 2022 ANDRÉS BELLO CATHOLIC UNIVERSITY (Caracas, Venezuela)

Lecturer

https://www.ucab.edu.ve/

Slope Stability and Excavations (graduate course in Geotechnics)
Soil Mechanics Laboratory (undergraduate course of Civil Engineering)

2008 – 2022 AMUNDARAY INGENIERÍA GEOTÉCNICA, C.A.

Head of Geotechnical Engineering

Geotechnical Engineering Consultancy and Geotechnical Studies

https://www.aig-ca.com.ve/

Coordination and supervision of geotechnical projects. Project control. Personnel in charge 20-25 people, in geotechnical studies developed both onshore and offshore. Budget control. Marketing.

2005 – 2008 INGENIERÍA GEOTÉCNICA PREGO, C.A.

Geotechnical Engineer

Geotechnical Engineering Consultancy and Geotechnical Studies

https://www.ingeprego.com/

Coordination and supervision of geotechnical exploration programs, on-site supervision of geotechnical and geophysical activities, laboratory tests interpretation, preparation of geotechnical reports and design of geotechnical projects.

Education

2022 - Currently

POLYTECHNIC UNIVERSITY OF CATALONIA - BARCELONATECH PhD Candidate in Geotechnical Engineering

https://www.upc.edu/ca

Participation in the projects TPH-CIMNE/UPC and REROOT related to ground improvement using low carbon composites, as well as bioengineering applications. *Performance of laboratory tests and analysis of results*.

2011 – 2016 SIMÓN BOLÍVAR UNIVERSITY

MSc in Earth Sciences

htpps://www.usb.ve/

Grade work with honors (EXCELLENT Mention). Title: *Obtaining a Rational Methodology for Geotechnical Characterization.*

2000 – 2005 UNIVERSITY OF ORIENTE

Civil Engineer

htpps://www.udo.edu.ve/

Honorable Mention MAGNA CUM LAUDE (grade point average 8.88 - 10.00). 1st place in the graduating class of 40 graduates.

Personal Capabilities and Skills

- SPANISH / ENGLISH languages.
- Well-founded technical criteria. Handling of specialized software.
- Leadership. Achievement and self-improvement orientation.
 Commitment. Loyalty.
- Proactivity. Leadership. Coordination and management of work teams. Budget follow-up and control. Negotiation.

Publications

- Boiero, A., Romero, E., Arroyo, M. and Spagnoli, G. (2022) "Interface direct shear test simulating post-grouting pile installation with novel binders". 9TH International SUT OSIG Conference - Innovative Geotechnologies for Energy Transition. London. <u>Abstract accepted</u>.
- Boiero, A. (2021) "Development of a Rational Methodology for Soil Geotechnical Characterization". 6TH International Conference on Geotechnical and Geophysical Site Characterization (ISC'6). Paper ID: ISC2020-12. Available at http://isc6.org/images/Cikkek/Sessions/ISC2020-12.pdf. Budapest, Hungary.
- Boiero, A. (2021) "Use of Vibrocompaction Method for Soil Improvement: case of the Port of La Guaira". Venezuelan Geotechnical Congress 2021. Caracas, Venezuela.
- Boiero, A., Oliver, J. y Amundaray, J. (2019) "Geotechnical Forensic Engineering: Settlement of Structures in Industrial Facilities in Puerto La Cruz, Venezuela".
 Proceedings of the XVI Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XVI PCSMGE), pp. 2593-2600. Cancún, México.
- Boiero, A.; Oliver, J. y Amundaray, J. (2018) "Geotechnical Forensic Engineering: Settlement of Structures in Industrial Facilities in Puerto La Cruz, Venezuela". XXIV Argentinian Seminar of Soil Mechanics and Geotechnical Engineering. Salta, Argentina.
- Boiero, A. y Rosales, C. (2016) "Estimation of Elastic Parameters for the Computation of Immediate Settlements for Frictional and Cohesive Soils". Bulletin of the Venezuelan Society of Geotechnical Engineering. 1st Digital Edition. Caracas, Venezuela.
- Amundaray, J. and Boiero, A. (2011) "Collapsible Clayey Soils in the North-Eastern Region of Venezuela". 2011 Pan-Am CGS Geotechnical Conference. Toronto, Canada.
- Boiero, A. y Amundaray, J. (2010) "Soil-Structure Interaction of Vibrating Equipment".
 XIX Seminar of the Venezuelan Society of Geotechnical Engineering. Caracas, Venezuela.
- Boiero, A., Amundaray, J., Grases, J. y Tamargo, L. (2008) "Evaluation of Liquefaction Potential, Subsoil Improvement Techniques and Obtaining the Seismic Response Spectrum". Conference 50th Aniversary of the Venezuelan Society of Geotechnical Engineering. Caracas, Venezuela.
- Boiero, A., y De Gouevia, G. (2006) "Determination and Analysis of Seismic Response Spectra in the Bolivar, Urbaneja, Sotillo and Guanta Municipalities". VIII Venezuean Congress of Seismology and Seismic Engineering. Valencia, Venezuela.

Awards

- Degree thesis with distinction EXCELLENT in order to obtain the degree of Master in Earth Sciences. Title: Obtaining a Rational Methodology for Geotechnical Characterization.
- Recognition for Teaching at UCAB, awarded for being part of the 20% of the best evaluated professors of the Faculty of Engineering of in the period October 2018 - February 2019.
- Recognition for Teaching at UCAB, awarded for being part of the 20% of the best evaluated professors of the Faculty of Engineering of in the period October 2015 – February 2016.
- Honorable Mention MAGNA CUM LAUDE (grade point average 8.88

 10.00). 1st place in the graduating class of 40 graduates.

Complementary Activities

- Member of the Venezuelan Society of Geotechnical Engineering (2008).
- Member of the Venezuelan Association of Engineers (2005).
- Developer of "geo". Webpage: https://geo-webonline.com/ (2021).

Contac Information



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Geo-Web



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