



Alvaro Boiero

Civil Engineer – MSc Earth Sciences



WHO I AM

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 work as a consultant in the area of Geotechnical Engineering, helping my clients to make their projects safe and functional. I share this activity with my university classes.

I am currently at the Polytechnic University of Catalunya - BARCELONATECH, where I am a PhD candidate in Ground 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.

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** **INDEPENDENT CONSULTANT**
Geotechnical Engineering
<https://geo-webonline.com/>
Geotechnical Engineering Consultancy and Geotechnical Studies
- 2020 - Today** **SÍSMICA ADIESTRAMIENTO**
Lecturer
<https://www.sismica-adiestramiento.com/>
- 2009 – Today** **UNIVERSIDAD CATÓLICA ANDRÉS BELLO**
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.
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Education

- 2022** **POLYTECHNIC UNIVERSITY OF CATALUNYA - BARCELONATECH**
PhD Candidate in Geotechnical Engineering
<https://www.upc.edu/ca>
- 2011 – 2016** **SIMÓN BOLÍVAR UNIVERSITY**
MSc in Earth Sciences
<https://www.usb.ve/>
Grade work with honors (EXCELLENT Mention). Title: *Obtaining a Rational Methodology for Geotechnical Characterization.*
- 2000 – 2005** **UNIVERSITY OF ORIENTE**
Civil Engineer
<https://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.
 - Leadership. Achievement and self-improvement orientation. Commitment. Loyalty.
 - Proactivity. Leadership. Coordination and management of work teams. Budget follow-up and control. Negotiation.
 - Well-founded technical criteria. Handling of specialized software.
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Publications

- 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 Anniversary of the Venezuelan Society of Geotechnical Engineering. Caracas, Venezuela.
 - Boiero, A., y De Gouveia, G. (2006) **“Determination and Analysis of Seismic Response Spectra in the Bolivar, Urbaneja, Sotillo and Guanta Municipalities”**. VIII Venezuelan Congress of Seismology and Seismic Engineering. Valencia, Venezuela.
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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

- Secretary of the Venezuelan Society of Geotechnical Engineering (2016 – Today).
- Member of the Venezuelan Association of Engineers (2005).
- Developer of “geo”. Webpage: <https://geo-webonline.com/> (2021).

Contact Information



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Geo-Web



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