



# Sebastian Gallegos A.

GEOLOGIST – GEOPHYSICAL

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## PROFESSIONAL PROFILE

Enthusiastic geologist and researcher eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Clear understanding of basic mapping and mineral chemistry techniques and trained in basics of ArcGIS. Motivated to learn, grow and excel in the field of geophysics. About 3 years of experience in teaching in pre-university and more than 6 years working in cross-functional teams. I have experience as a research assistant and as a consultant on applied geophysics topics. In addition to knowledge in computational skills in seismology. I am currently developing several projects using applied geophysics.

## EDUCATION

### BACHELOR OF SCIENCE: GEOLOGY

Yachay Tech University | 2014 - 2020

Within the geology career in general a knowledge of identification and description of sedimentary and mineral structures in rocks is obtained. In my case with specialization in the use of geophysical exploration methods.

### LABORATORY / FIELDWORK EXPERIENCE

- Four months working with the scanning electron microscope (SEM) in an Internal Grant Project.
- Several hours of experience working with geophysical prospecting equipment such as: electrical resistivity, magnetometer and ground penetration radar.
- More than 140 hours working with UNESCO's Imbabura World Geopark, in the categorization of the first geosites.

## WORK EXPERIENCE

### TEACHING TECHNICIAN

Yachay Tech, Urucuquí, Imbabura | Sep 2021 – Present

Laboratory research using equipment for magnetic mineral separation, heavy mineral separation, thin sections processing, sample preparation/crushing, microscopy (SEM, Nanotomography) and Applied geophysics. Tutor in community outreach project on seismic risks and disasters. Laboratory teaching in Geology subjects.

### GEO-PHYSICAL CONSULTANT

San Antonio de Ibarra, Imbabura | Dec 2020 – Dec 2020

Electrical resistivity analysis performed to detect the depth of water tables. Consultancy carried out for the project "Study of Hydrogeological Exploration of Wells for EMAPA-I" led by the Public Research Company CENTRO (E.P.I. CENTRO) and the Municipal Public Company of Drinking Water and Sewerage of Ibarra (EMAPA-I).

### RESEARCH ASSISTANT – INTERNAL GRANT

Yachay Tech, Urucuquí, Imbabura | Aug 2017 – Dec 2017

Laboratory research using Scanning Electron Microscope (SEM) for analysis of optical and electronic microscopy of the desert varnish and diatoms, as part of the "Andean rise and deserts in Northwestern South America" project.

### TEACHER PREUNIVERSITARIO STEPHEN HAWKING

Quito, Ecuador | April 2012 – April 2014

- Enhanced student learning by optimizing wide range of instructional approaches and innovative classroom activities.
- Supported student teachers by mentoring on classroom management, lesson planning and activity organization.

## Professional Skills

Photoshop

Audition

ArcGIS

InkScape

Lightroom

MS Office

## Personal Skills

Searches

Observant

Strategic planning

Time management

Team work

Project management

## Languages

SPANISH



ENGLISH



## HONORS

2021 - 09	Condecoration "Asamblea Nacional de la República del Ecuador, Dr. Pedro Vicente Maldonado" Scientific Research Merit
2021 - 02	Winner of the outstanding student presentation award (OSPA)   AGU Fall Meeting 2020 Theme: "Geophysical Prospection of Yachay Archaeological Sites (Imbabura, Ecuador) to Improve Recovery of Ecuadorian Cultural Heritage" Category: Near-Surface Geophysics for Anthropogenic and Environmental Targets section.
2019 - 11	Best oral presentation   VII Congress REDU Theme: "Geophysical survey of archaeological sites for the recovery of cultural heritage around Yachay Tech University, Imbabura, Ecuador"
2018 - 11	Second Place in the scientific poster contest   VI Congress REDU Theme: Archaeological Prospection and Recovery of Cultural Patrimony in the Territory of the City of Knowledge Yachay.

## CERTIFICATIONS

2022 - 03	Director of the Scientific Committee of the Earth Sciences, Energy and Environment Symposium (CEJI 2022)
2021 - 08	IRIS 2021 Seismology Skill Building Workshop
2020 - 07	Teoría, adquisición, procesamiento y modelaje de datos GPR (Ground Penetrating Radar) en el Primer Congreso Internacional Virtual de Geología y Geofísica 2020
2020 - 05	Primer Congreso "Te Vivo Imbabura 2020"
2019 - 12	AGU PATHFINDER Virtual Poster Showcase
2019 - 11	VII Congreso REDU
2019 - 09	II Workshop: Geología del Ecuador
2019 - 05	III Encuentro Internacional de Ciencias Aplicadas a la Ingeniería Civil
2019 - 01	Yacimiento Minerales Metálicos del Ecuador
2018 - 12	Research Highlights in Earth Sciences & Civil Engineering from Yachay Tech & UNIMAR
2018 - 11	VI Congreso REDU
2018 - 05	II Encuentro de Ciencias Aplicadas a la Ingeniería Civil y Workshop
2018 - 04	3D Visualization Techniques Using ArcGIS
2018 - 03	Georeferencing Raster Data Using ArcGIS
2018 - 02	Working with Coordinate Systems in ArcGIS

## ABSTRACT, PROCEEDINGS AND PRESENTATIONS

2020 - 12	Talk   AGU Fall Meeting 2020, Florida, USA.
2020 - 05	Talk   Congress of geosites within UNESCO's World Geopark Imbabura.
2019 - 12	Abstact   AGU Pathfinder Virtual Poster Showcase, Florida, USA.
2019 - 11	Talk   VII Congreso REDU, Yachay Tech, Ecuador.
2019 - 05	Talk   III Encuentro Internacional de Ciencias Aplicadas a la Ingeniería Civil, Universidad Mariana, Pasto, Colombia.
2018 - 12	Talk   Conference at Research Highlights in Earth Sciences and Civil Engineering international from Yachay Tech & UNIMAR,
2018 - 11	Poster   VI International REDU Congress, Universidad Técnica del Norte, Ecuador.

## HOBBIES

Photography



Hiking

Cycling



Video and audio editing

"Only those who will risk going too far can possibly find out how far they can go." – T.S. Eliot