

Francisca Fernanda Robledo Carvajal
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francisca.robledo.carvajal@gmail.com

Birth date: April 3rd, 1992
Passport Number: 112331286

Education ***Geologist. Bachelor in Geology (Geology Licensing, Academic degree), Católica del Norte University, Antofagasta, Chile.***

March 2010 – April 2018

G.P.A. 5.7 (1 to 7 scale)

Student learning English in St. Giles, Eastbourne, England.

May 2018 – July 2018

B2 IELTS band score (April, 2019)

Field work in the Alpes Range by the Free University of Berlin managed by Dr. Onno Oncken

August 2018 (9 days)

Advanced Structural Geology Course. CONICET, by Dr. Laura Giamagi and Dr. José Mescua.
May 2019.

Work Experience **December 2013-July 2015. Scientific project commissioned at request of The Chilean National Survey of Geology and Mining (SERNAGEOMIN)**

Research Assistant

Outline: The result of this project was a 1:100.000 geological map of the Precordillera of northern Chile between 24°30'-25°S: **González, R., Wilke, H. G., Menzies, A. H., Espinoza, F., Riquelme, R. and Herrera, C., 2015. Carta Sierra de Varas, Región de Antofagasta. Servicio Nacional de Geología y Minería, 853. Carta Geológica de Chile, Serie Geología Básica. 1 mapa escala 1:100.000. Santiago.**

Key responsibilities

- Field work assistant in the Sierra de Varas, Domeyko Range (Atacama Desert). Activities: construction of stratigraphic column, sampling, recollection of structural data.
- Petrography study of thin sections in optical microscope. Textural, mineralogical and microstructural analysis.
- Fault kinematic analysis of fault-slip data using FaultKin v.4.3.5 software (Marrett and Allmendinger, 1990; Allmendinger et al., 2012), which utilizes the right dihedral geometrical method of Angelier and Mechler (1977) and Pfiffner and Burkhard (1987).

July 2013 –August 2013 Fondap n°15110017 (Project reference) National Research Center for Integrated Natural Disasters Management (CIGIDEN). Field work assistant

Key responsibilities

- Installation of geophysics equipment during field work in the Atacama Desert.

August 2018 July 2013 –August 2013 Fondap n°15110017 (Project reference) National Research Center for Integrated Natural Disasters Management (CIGIDEN).
Field work assistant

Teaching Experience Three times student assistant in the signature called Fieldwork 1, Catolica del Norte University, Antofagasta, Chile.
March 2016 – July 2016;
March 2017 – July 2017;
April 2018

Researches **Robledo F., González R., Torres, P., Rogers, H., Espinoza D., Espinoza, M., Jaldín, D. (in review.). Polyphasic deformation related to the origin and evolution of a rift-basin and its inversion in a long-live subduction convergent margin: the case of the Late Cretaceous tectonic inversion of the Late Triassic Domeyko Basin in the Sierra de Varas, Andean Precordillera of northern Chile**

*O. González-Maurel, R. González T., **Francisca Robledo**, A. H. Mezies, V. Oliveros, P. le Roux, L. Godfrey, F. Lucassen, P. Vasquez, A. Solís, D. Frei, C. Celis. (in prep.)* **50-million-years geological gap as Triassic slab segmentation consequence in southwestern Gondwana: evidence from the present-day Precordillera, northern Chile.**

*P. Gutiérrez, R. González, A. Veloso, **Francisca Robledo**, O. González-Maurel and D. Frei (in prep.).* **Asymmetric petrofabric in synmagmatic folded dyke swarm unveiled by AMS: implication for the kinematic of intra-arc structures.**

*R. González, J. Fuentealba, V. Jeria, D. Espinoza and **Francisca Robledo** (in prep.).* **Kinematic switch in a strike-slip fault system: the evolution of Late Eocene Domeyko Fault System (Precordillera of northern Chile ca. 25°S) related to the Andean Oroclinal formation.**

Publications in Conferences **Francisca Robledo**, Rodrigo González, Paulina Torres, Hector Rogers, Daniela Espinoza, Mauricio Espinoza y Diego Jaldín, (2019). Basin inversion and the role of inherited extensional structures in the forearc of northern Chile: The Late Cretaceous tectonic inversion of the Domeyko Basin in the Sierra de Varas segment, Andean Precordillera of northern Chile. 8th International Symposium on Andean Geodynamics (ISAG).

Francisca Robledo, R. González, D. Espinoza and R. Quilaleo (2018). Inversión de las cuencas del Triásico Superior del norte de Chile: ejemplo de la zona triangular de Sierra de Varas, Precordillera ca. 24°30'S. **(Basin Inversion of Upper Triassic basins in the north of Chile: The case study of triangular zone in Sierra de Varas (Atacama Desert).** (In XV Congreso Geológico de Chile 2018, Actas Concepción.

*R. González, **Francisca Robledo**, J. Riera, J. Fuentealba, A. Peralta, V. Véliz, R. Riquelme. 2015.* Estructuras de deformación en Sierra de Varas y Sierra de Argomedo: evidencias de la historia polifásica de evolución de la Precordillera de Antofagasta. **(Deformational structures in Sierra de Varas and Sierra de**

Argomedeo: evidences about polyphasic history in Antofagasta Precordillera's evolution). In XIV Congreso Geológico de Chile, Actas La Serena.

*D. Espinoza, R. González, **Francisca Robledo**, R. Quilaleo and K. Quinzacara* (2018). El rol de las estructuras compresivas pre-Incaicas en la geometría y la evolución de la deformación en la actual Cordillera de Domeyko: la deformación de las rocas mesozoicas de las Sierra Candeleros. **(The role of pre-Incaic compressive structures in the geometry and evolution in Domeyko Range: mesozoic rock deformation in Sierra Candeleros)**. In XV Congreso Geológico de Chile 2018, Actas Concepción.

*R. Quilaleo, R. González, D. Espinoza, **F. Robledo** and K. Quinzacara* (2018). El efecto del Sistema de Fallas Domeyko en el plegamiento de las rocas mesozoicas en el cerro Corral de Alambre, Precordillera de Antofagasta. **(The effect of Domeyko System Fault in mesozoic rock folding in Corral de Alambre hill, Precordillera, Atacama Desert)**. In XV Congreso Geológico de Chile 2018, Actas Concepción.

*K. Quinzacara, R. González, D. Espinoza, R. Quilaleo and **Francisca Robledo*** (2018). Nuevos antecedentes de la deformación en Sierra Santa Ana, Precordillera de Antofagasta. **(New details about folding in Sierra Santa Ana, Antofagasta Precordillera, Atacama Desert9.)** In XV Congreso Geológico de Chile 2018, Actas Concepción.

*J.F. Contreras, R. González, H.-G. Wilke, **Francisca Robledo***. 2014 Antecedentes preliminares acerca del ambiente de depositación de las rocas sedimentarias calcáreas intercaladas en la secuencia piroclástica de la Formación Sierra de Varas (Triásico). **(Preliminar records about depositional environment of calcareous sedimentary rocks intercalated in Sierra de Varas Formation pyroclastic sequence)**. In XVII Congreso Peruano Geológico, Lima.

**** I have driving license.**

LICENCIA DE CONDUCTOR
REPUBLICA DE CHILE

CLASE B

Nº DE LICENCIA 17,812,649-0

MUNICIPALIDAD ANTOFAGASTA

NOMBRE FRANCISCA FERNANDA

APELLIDOS ROBLEDO CARVAJAL

DIRECCION 11 NORTE 283 CASA 167

FECHA ULTIMO CONTROL 17/01/2019

FECHA DE CONTROL 03/04/2025

FRANCISCA FERNANDA
ROBLEDO CARVAJAL
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Debe Usar Lentes

CA 19634810

RESTRICCIONES

ESPECIALIDAD

RAMON VALVERDE PRATS (S)
DIRECTOR DEL TRANSITO

FIRMA DEL CONDUCTOR

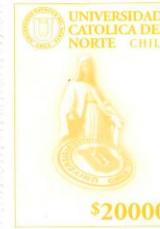
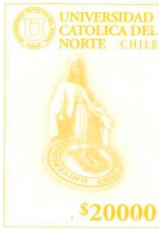
DONANTE DE ORGANOS: ☐

17/01/2019

CASA DE MONEDA DE CHILE S.A.

UNIVERSIDAD CATÓLICA DEL NORTE

CHILE



Certifico que la Universidad Católica del Norte, por acuerdo N° 40967

de fecha siete de agosto de dos mil dieciocho

Otorgó a Doña Francisca Fernanda Robledo Carvajal

El Título de **Geólogo**

Aprobado **Con Distinción.-**

Dado en la ciudad de Antofagasta, a ocho de agosto de dos mil dieciocho.

R.U.T. 17.812.649-0



Fernando Andrés Orellana Torres
Secretario General de la Universidad

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