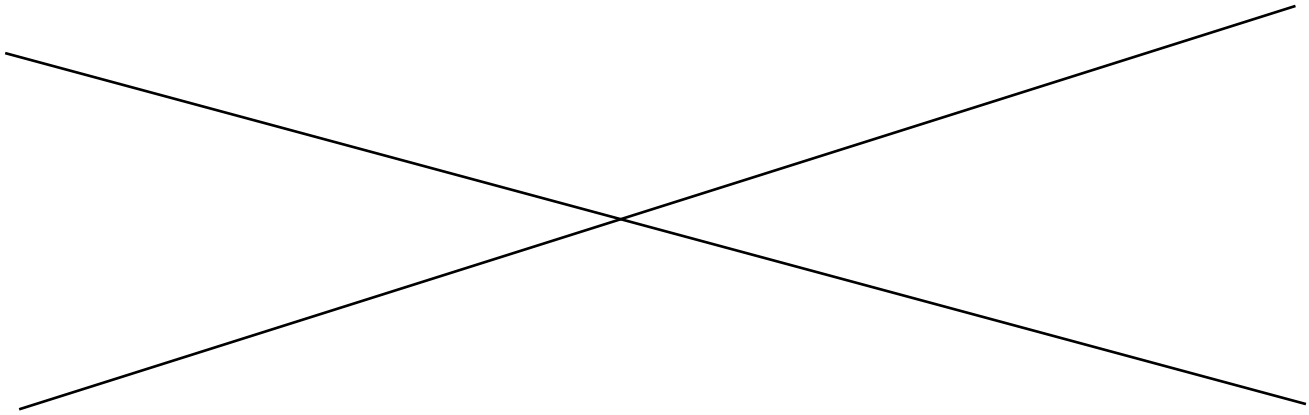
DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI
(art. 46 D.P.R. n. 445/2000 e s.m.i)
DICHIARAZIONI SOSTITUTIVE DELL'ATTO DI NOTORIETÀ
(art. 47 D.P.R. n. 445/2000 e s.m.i)

...l.a sottoscritt.a.
COGNOME _____Roa_____ NOME _____Yenni Lorena Belen__
NAT.a. A:_____ PROV._____
IL _____
ATTUALMENTE RESIDENTE A:_____
PROV. _____
INDIRIZZO_____ C.A.P. _____
TELEFONO _____
Visto il D.P.R. 28 dicembre 2000, n. 445 concernente "T.U. delle disposizioni legislative e regolamentari in materia di documentazione amministrativa" e successive modifiche ed integrazioni;
Vista la Legge 12 novembre 2011, n. 183 ed in particolare l'art. 15 concernente le nuove disposizioni in materia di certificati e dichiarazioni sostitutive (*);
Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità:
che quanto dichiarato nel seguente curriculum vitae et studiorum comprensivo delle informazioni sulla produzione scientifica corrisponde a verità
Curriculum vitae et studiorum
studi compiuti, i titoli conseguiti, le pubblicazioni e/o i rapporti tecnici e/o i brevetti, i servizi prestati, le funzioni svolte, gli incarichi ricoperti ed ogni altra attività scientifica, professionale e didattica eventualmente esercitata (in ordine cronologico iniziando dal titolo più recente)



(*) ai sensi dell’art. 15, comma 1 della Legge 12/11/2011, n. 183 le certificazioni rilasciate dalla P.A. in ordine a stati, qualità personali e fatti sono valide e utilizzabili solo nei rapporti tra privati; nei rapporti con gli Organi della Pubblica Amministrazione e i gestori di pubblici servizi, i certificati sono sempre sostituiti dalle dichiarazioni sostitutive di certificazione o dall’atto di notorietà di cui agli artt. 46 e 47 del DPR 445/2000

N.B:

1)Datare e sottoscrivere tutte le pagine che compongono la dichiarazione.

2)Allegare alla dichiarazione la fotocopia di un documento di identità personale con firma leggibile, in corso di validità.

3)Le informazioni fornite con la dichiarazione sostitutiva devono essere identificate correttamente con i singoli elementi di riferimento (esempio: data, protocollo, titolo pubblicazione ecc…).

4)

5)

6) I cittadini di Stati non appartenenti all'Unione, regolarmente soggiornanti in Italia, possono utilizzare le dichiarazioni sostitutive di cui agli artt. 46 e 47 del D.P.R. 445 del 28.12.2000 limitatamente agli stati, alla qualità personali e ai fatti certificabili o attestabili da parte di soggetti pubblici italiani, fatte salve le speciali disposizioni contenute nelle leggi e nei regolamenti concernenti la disciplina dell’immigrazione e la condizione dello straniero.

Al di fuori dei casi sopradetti, i cittadini di Stati non appartenenti all'Unione autorizzati a soggiornare nel territorio dello Stato possono utilizzare le dichiarazioni sostitutive nei casi in cui la produzione

Napoli, 30/06/2025

delle stesse avvenga in applicazione di convenzioni internazionali fra l'Italia e il Paese di provenienza del dichiarante.

Napoli, 30/06/2025

Curriculum Vitae – Yenni Lorena Belen Roa

PERSONAL INFORMATION

EDUCATION

April 2018 – April 2025

PhD in Science and Technology

Institution Instituto de Capacitación Especial y Desarrollo de Ingeniería Asistida por Computadora (CEDIAC - CONICET), Universidad Nacional de Cuyo, Mendoza, Argentina

Activity Data processing to obtain interferometric and polarimetric products from satellite and airborne Synthetic Aperture Radar (SAR) systems (e.g., SAOCOM-1A and SARAT).
Tutors and affiliations Eng. Pablo Euillades and Eng. Leonardo Euillades, Instituto de Capacitación Especial y Desarrollo de Ingeniería Asistida por Computadora (CEDIAC), Universidad Nacional de Cuyo, Mendoza, Argentina; Prof. Stefano Perna, Università degli Studi di Napoli "Parthenope", Dipartimento di Ingegneria & Istituto per il Rilevamento Elettromagnetico dell'Ambiente del Consiglio Nazionale delle Ricerche (IREA-CNR), Naples, Italy.
Scientific results achieved in the context of the PhD the research activity developed in the context of the PhD led to the publication of 1 paper in an International Journal (P4) and 2 papers in international conferences (C2, C17)
Attachment: PhD Certificate from page 16 to 17

February 2018 - September 2020

Master degree in "Applications of Space Information" (2 years course)

Institution Instituto de Altos Estudios Espaciales "Mario Gulich"/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Avarage grade of the Master 9.54 (Scale 0-10, 10 best, 0 worst)
Final project Evaluation of the interferometric and polarimetric capabilities of the SARAT airborne L-band SAR system.
Score of the final project 10 (Scale 0-10, 10 best, 0 worst)
Advisor Eng. Pablo Euillades, Instituto de Capacitación Especial y Desarrollo de Ingeniería Asistida por Computadora (CEDIAC), Universidad Nacional de Cuyo, Mendoza, Argentina.
Methodological advisor Prof. Stefano Perna, Università degli Studi di Napoli "Parthenope", Dipartimento di Ingegneria & Istituto per il Rilevamento Elettromagnetico dell'Ambiente del Consiglio Nazionale delle Ricerche (IREA-CNR), Naples, Italy.
Scientific results achieved in the context of the master the research activity developed in the context of the master led to the publication of 1 paper in an international conference (C18) and 1 paper in national conference (C20).
Attachment: Master Certificates from page 18 to 20.

March 2008 - December 2016

Degree in Geophysics (5 years course)

Institution Facultad de Ciencias Astronómicas y Geofísicas - Universidad Nacional de La Plata, Buenos Aires, Argentina
Avarage grade of career 8.48 (Scale 0-10, 10 best, 0 worst)
Final project Estimation and sizing of a solar thermal power plant in Argentina: direct radiation mapping for a possible installation and comparison of two possible technologies for its construction.
Score of the final project 10 (Scale 0-10, 10 best, 0 worst)
Advisor Prof. María Fernanda Montero, Universidad Nacional de La Plata (UNLP), Buenos Aires, Argentina.

Co-advisor Jesús Fernandez-Reche, CIEMAT-Plataforma Solar de Almería, España.
Scientific results achieved in the context of the degree the research activity developed in the context of the degree led to the publication of 3 papers in national conferences (C21, C22, C23, C24).
Attachment: Degree Certificates from page 21 to 32.

PROFESSIONAL EXPERIENCES

Technologist – Level III

May 2024
June 2025

Institution Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA) di Napoli - Consiglio Nazionale delle Ricerche (CNR)
Activity Processing of L-band SAR data, with applications in the fields of differential interferometry and polarimetry, through the development of dedicated algorithms and the analysis of results over various areas of interest in Italy
The work contributed to the development of advanced computational tools in the field of Earth observation, in line with the strategic objectives of the National Recovery and Resilience Plan (PNRR)
References Research project PNRR. Project CN00000013 – 'National Centre for HPC, Big Data and Quantum Computing' – Spoke 5
Scientific results achieved in the context of the degree the research activity developed in the context of the research fellow led to the publication of 2 paper in an International Journal (P1, P2).

RESEARCH EXPERIENCES

Research fellow

December 2023
May 2024

Institution Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA) di Napoli - Consiglio Nazionale delle Ricerche (CNR)
Activity research activity and development of techniques on the topic "Advanced Techniques for L-band SAR Interferometry". Continued the elaboration of SAOCOM-1 data within the P-SBAS (Parallel Small BAseline Subset) interferometric processing chain, with a particular focus on the analysis of the results obtained, including the generation of deformation time series and mean velocity maps. Additionally, polarimetric analysis of SAOCOM-1 data was performed to derive soil moisture maps, thus expanding the applications of L-band data for environmental and land monitoring studies
References appointment act, protocol number IREA N 372230 of 29 November, 2023.
Scientific results achieved in the context of the degree the research activity developed in the context of the research fellow led to the publication of 7 papers in international conferences (C1, C2, C3, C4, C5, C6, C7).

June 2021
December 2023

Institution Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA) di Napoli - Consiglio Nazionale delle Ricerche (CNR)
Activity research activity and development of techniques on the topic "Sviluppo di tecniche e algoritmi avanzati di Interferometria SAR Differenziale finalizzati alla generazione di catene automatiche per il processing massivo e sistematico di grandi dataset di interferogrammi, a media ed alta risoluzione spaziale, anche mediante l'utilizzo di Cloud Computing e di risorse di calcolo HPC (multi-nodo, multi-core, GPU)" in the frame of the projects: "OT4CLIMA - Tecnologie OT innovative per lo studio degli impatti del Cambiamento climatico sull'ambiente", "H2020-EU.1.4.1.1. EPOS SP - INFRADEV-03-2018-2019 Individual support to ESFRI and other world-class research infrastructures", "DInSAR-3M DInSAR Multi-frequenza/Multi-piattaforma per analisi Multi-scala dei movimenti del suolo", "Servizi interoperabili per la Terra Digitale 2021 – 2023".
References appointment act, protocol number IREA N 758 of April 7, 2021; renewal act, protocol number IREA N 1514 of June 1, 2022.
Scientific results achieved in the context of the degree the research activity developed in the context of the research fellow led to the publication of 1 paper in an International Journal P3, 9 papers in international conferences (C8, C9, C10, C11, C12, C13, C14, C15, C16) and 10 reports (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10).

CURRENT COLLABORATIONS

Since September 2020

Data processing to obtain Differential Interferometric SAR products using Sentinel 1-A and B over the Sotará Volcano (Colombia), and modeling of the volcanic source using the MATLAB-based software package dModels, in collaboration with the Colombian Geological Survey and the US Geological Survey.

AWARDS

February 2020

Best paper in the Latin American GRSS & ISPRS Remote Sensing Conference (LAGIRS) 2020 Student Paper Competition

Awarded paper "On the interferometric and polarimetric capabilities of the Argentinian L-band SARAT system", by Y. Roa; M. Azcueta; P. Berardino; C. Esposito; L. Euillades; P. Euillades; A. Natale; S. Perna.

December 2017

Prize "Joaquín V. Gonzáles"

Prize "Joaquín V. Gonzáles" to one of the best average grades of the Geophysics graduates of the year 2016. The award is conferred annually by the Municipality of La Plata to the best top ten average grades of the different careers of the National University of La Plata, Argentina.

November 2014

Best poster in the scholarship program of the IX Hydrocarbons Exploration and Development Conference, Mendoza, Argentina

Awarded work "Seismic stratigraphy interpretation of the marine platform of the Malvinas basin from 2D seismic", by A. Acosta, G. Gelpi, Y. Roa, G. Vergani, Y. Quinteros. Reference: TRABAJOSPREMIADOS.pdf

GRANTS

From April 2019 to September 2019

MAECI/ASI/CONAE-UNC scholarship in the framework of an internship in the Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA), Consiglio Nazionale delle Ricerche (CNR)

Winner of the scholarship funded by the Ministry of Foreign Affairs and International Cooperation (MAECI) of Italy, the Italian Space Agency (ASI) and the Instituto Gulich (CONAE-UNC) to spend a period of 6 months in IREA-CNR, Naples, Italy.
Motivation financial support to carry out the activities related to the master thesis.

From February 2018 to April 2018

Scholarship in the framework of the Master in Applications of Space Information

Winner of the scholarship funded by the National Commission of Space Activities of Argentina (CONAE), Córdoba, Argentina, for a period of 2 years.
Motivation financial support to carry out the activities related to the master degree.

From April 2018 to April 2023

Ph.D. Scholarship

Winner of the internal doctoral scholarship for a period of sixty (60) months from April 1, 2018 funded by The National Council of Scientific and Technical Investigations (CONICET), Argentina.
Motivation financial support to carry out the activities related to the PhD.

From September 2015 to August 2016

Research Scholarship

Scholarship funded by the National Interuniversity Council (CIN) within the framework of the call for the scholarship program to encourage scientific vocations, La Plata, Argentina.
Motivation financial support to carry out the activities related to the geophysics degree thesis.
Reference https://www.cin.edu.ar/becas-evc-convocatoria-2015-resultados/

PARTECIPATION IN PROJECTS

2021-2024

European Plate Observing System Sustainability Phase (EPOS-SP)

funded by the European Union, H2020 (total funding of 4.998.093,75 euro)

Aim of the project EPOS aims at developing a European research infrastructure to provide to the scientific community a better insight on our planet and, in particular, on the tectonic processes occurring on the Earth surface, as well as new tools for managing the geo-hazards and geo-resources. This goal is obtained by connecting the already existing infrastructures of 24 European countries and by sharing the different data, models and scientific knowledge of each country.
Activity participation in the research and development activity defined within the project.
Operational unit IREA – CNR
Funding for the Operating Unit 110.625,00 euro
Reference the research activity developed in the context of the project led to the publication of 2 papers in national and international conferences (C1, C3)

2022-2024

Generation of pre-operative products aimed at the evaluation of surface deformations, through the use of advanced methodologies for the processing of synthetic aperture radar remote sensing data

funded by the Italian Civil Protection Department (DPC)

Aim of the project Processing and analysis of Synthetic Aperture Radar (SAR) data for volcanic and seismic applications, in the frame of the Agreement between the Department of Civil Protection (DPC) and the Institute for the Remote Sensing of the Environment (IREA) of the National Research Council (CNR) of Italy. In particular, the activities are aimed at 1) the monitoring of the surface deformations occurring on the main active volcanoes of Italy (Campi Flegrei, Ischia, Vesuvio, Stromboli, Etna) through Interferometric SAR (InSAR) techniques and Sentinel-1 data; 2) the nearly real-time generation of co-seismic deformation maps induced by the main seismic events in Italy based on Sentinel-1, SAOCOM-1 and COSMO-SkyMed data; 3) the analysis for DPC purposes of InSAR data acquired over Italy by IREA-CNR in the frame of other projects.
Activity participation in the research and development activity defined within the project.
Operational unit IREA – CNR
Funding for the Operating Unit N/A
Reference contributions in Proceedings of National and International Conferences (C1, C3)

2022 - 2024

Research Projects of the Secretariat of Research, International and Postgraduate (SIIP) of the Universidad National de Cuyo, Mendoza, Argentina

funded by Secretary of Research, International and Postgraduate, National University of Cuyo, Nº Res. R_RE_3713_2022, 06/B031-T1

Aim of the project Preliminary analysis of SAOCOM interferometric capabilities using data acquired in TOPSAR mode
Activity Analysis of different SAOCOM data sets acquired in TOPSAR Narrow mode to be used in the characterization of deformation fields through the application of interferometric techniques.
Operational Unit CEDIAC-UnCuyo.
Reference R_RE_3713_2022

2021-2023

DInSAR-3M - DInSAR Multi-frequency/Multi-platform for Multiscale analysis of ground movements

funded by the Italian Space Agency (total funding of 199.747,14 euro)

Aim of the project generation of 3D surface deformation maps, characterized by wide space-time coverage and high accuracy along the horizontal and vertical directions, by means of space-time integration of differential SAR interferometry products (DInSAR) obtained from aerial (L band) and multi-frequency/multi-mission (X-C-L bands) satellite SAR data for the study of seismic-volcanic phenomena, slow landslides, fast/intense landslides, even on vegetated and/or snowy areas.
Activity processing of the data acquired by the SAOCOM-1 SAR system in the context of the WP1102 "Processing of L-band satellite SAR data" and the WP 7101 "Procurement/support of/on satellite SAOCOM data".
Operational unit IREA – CNR
Funding for the Operating Unit 144.773,94 euro
Reference contributions in Proceedings of National and International Conferences (C2, C4)

2021-2023

Generation of interferometric and polarimetric products from L-Band Synthetic Aperture Radar (SAR) data acquired by the Argentine SARAT (airborne) and SAOCOM (satellite) sensors.

funded by the Argentinian Republic through the Ministry of Science, Technology and Innovation (MINCyT) and the Italian Republic through the Ministry of Foreign Affairs and International Cooperation (MAECI).

Aim of the project investigation of the potentialities of satellite and airborne L-band SAR data for the generation of interferometric and polarimetric products, such as soil deformation and soil moisture maps.
Role performed focusing and polarimetric calibration of SARAT data. Soil moisture estimation through polarimetric SAOCOM data.
Reference 2019 - call for the VIII Executive Program for Scientific and Technological Cooperation between the Argentine Republic through the Ministry of Science, Technology and Innovation (MINCyT) and the Italian Republic through the Ministry of Foreign Affairs and International Cooperation (MAECI). 2021-2023.

2021-2022

OT4CLIMA Tecnologie OT innovative per lo studio degli impatti del Cambiamento climatico sull'ambiente

funded by the Ministry of University Education and Research (MIUR) of Italy (total funding of 4.494.621,38 Euro)

Aim of the project the project was finalized at developing new measurement tools and Earth Observation (EO) methodologies to provide products/applications/services aimed at improving the capacity to mitigate the effects of climate change at a regional and sub-regional scales.
Activity participation in the research and development activity defined within the project.
Operational unit IREA – CNR
Funding for the Operating Unit 289.000,00 euro
Reference Decreto Direttoriale del MIUR del 6 settembre 2018 prot. n. 2261, registrato dalla Corte dei Conti in data 3/10/2018 n. 1

2019 - 2021

Research Projects of the Secretariat of Research, International and Postgraduate (SIIP) of the Universidad National de Cuyo, Mendoza, Argentina

funded by Secretary of Research, International and Postgraduate, National University of Cuyo, Nº Res. 4142/19.

Aim of the project Interferometric analysis of SAR images acquired from an airborne platform.
Activity focusing and interferometric product generation using SARAT data.
Operational Unit CEDIAC-UnCuyo.
Reference rre414220191.pdf

2018 – 2019

Integration project within the framework of the Master in Applications of Space Information

Aim of the project Development and automatization of a traffic light for the trophic state of water, evaluation of the water quality using MODIS images.
Activity development of an automate a process to determine the trophic state of the San Roque Dam, located in the province of Cordoba, Argentina using the product MOD09GQ-MODIS to calculate the concentration value of chlorophyll-a in the San Roque Dam.
Operational Unit Instituto de Altos Estudios Espaciales "Mario Gulich" - CONAE .
Reference http://aplicaciones.ig.conae.gov.ar:8080/visor2/#map=305.748113140705/-7187407.06/-3667271.76/0

TEACHING ASSIGNMENTS

22 August – 08 September 2023

Professor

Instituto de Altos Estudios Espaciales "Mario Gulich"/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina

Activity Professor of a postgraduate course in the frame of the master degree "Applications in Space Information"
Subject Synthetic Aperture Radar imaging applications (60 hours)

22 August – 09 September 2022

Professor

Instituto de Altos Estudios Espaciales "Mario Gulich"/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina

Activity Professor of a postgraduate course "Applications in Space Information"
Subject Synthetic Aperture Radar imaging applications (60 hours)

21 September – 17 October 2020

Professor

Instituto de Altos Estudios Espaciales "Mario Gulich"/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina

Activity Professor of a postgraduate course in the frame of the master degree "Applications in Space Information"
Subject Synthetic Aperture Radar imaging applications (60 hours)
Reference https://ig.conae.unc.edu.ar/sar/

From March 2016 to March 2018

Student Assistant designated via public selection

Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, Buenos Aires, Argentina.

Activity Student assistant for the first year of the Geophysics career
Subject General Geophysics

From March 2016 to March 2018

Student Assistant designated via public selection

Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, Buenos Aires, Argentina.

Activity Student assistant for the second year of the Geophysics career
Subject Georeferencing.

From May to June 2017,

Student Assistant

Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, Buenos Aires Argentina.

Activity Student assistant for a course of the Meteorology career
Subject Introduction to Octave.

From September to December 2016

Student Assistant designated via public selection

Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, Buenos Aires, Argentina.

Activity Student assistant in the entrance exam course of Geophysics, Astronomy and Meteorology careers
Subject Mathematic

RADAR ACQUISITION CAMPAIGNS

19 - 21 June 2019

Participation to the data acquisition campaign of the Italian Airborne X-band Interferometric SAR (AXIS) system, Salerno, Italy, under the supervision of Prof. Stefano Perna.

REFEREEING ACTIVITY

IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2023)
Activity Reviewer for scientific abstract papers

IV Biennial Congress of Argentina, IEEE ARGENCON 2022
Activity Reviewer for scientific papers.

Journal of Applied Remote Sensing (JARS 2021)
Activity Reviewer for scientific papers.

2020 Biennial Congress of Argentina, IEEE ARGENCON 2020
Activity Reviewer for scientific papers.

Member of the technical committee for the XXVIII Scientific Meeting of the Argentine Association of Geophysicists and Geodesists (AAGG 2017): Third Symposium on Investment and Signal Processing in Seismic Exploration (IPSES '17)
Activity General coordination of the abstract book and the extended abstract book.
Place Facultad de Ciencias Astronómicas y Geofísicas, La Plata, Argentina.
Available in
http://sedici.unlp.edu.ar/handle/10915/60718 and http://sedici.unlp.edu.ar/handle/10915/60712

HUMAN RESOURCES TRAINING

Co-supervisor for the master degree thesis in Applications of Space Information
Institution Instituto de Altos Estudios Espaciales “Mario Gulich” /FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Year in progress since 2020
Thesis title Preliminary analysis of SAOCOM interferometric capabilities using data acquired in TOPSAR mode.

Thesis Supervisor Eng. Leonardo Euillades
Student Eng. Jorge Alejandro Euillades

Co-supervisor for the bachelor degree thesis in Computer, Biomedical, and Telecommunications Engineering
Institution Università degli Studi di Napoli "Parthenope", Centro Direzionale Isola C4, Naples, Italy
Year 2019
Thesis title SARAT-CONAE: un sistema SAR in banda L aviotrasportato.
Thesis Supervisor Prof. Stefano Perna
Student Francesco Romano

LANGUAGE SKILLS

Native language: Spanish

Other languages

UNDERSTANDING		SPOKEN		WRITTEN PRODUCTION
Listening	Reading	Interaction	Oral Production	
Good	Very Good	Intermediate	Intermediate	Good
Good	Good	Good	Good	Good

INFORMATIC SKILLS

Programming languages: Octave, Python, Matlab, R, IDL, Bash
Image processing packages: QGIS, SNAP, ENVI
Office packages: Microsoft Word, Microsoft Excel, Microsoft Power Point, Latex

PARTICIPATION IN HIGHER COURSES OF TRAINING

Images and Machine Learning in Python
Date 8 to 16 October 2020
Institution Instituto de Altos Estudios Espaciales ¨Mario Gulich¨, Córdoba, Argentina (Online)
Duration 60 hours

Scientific Writing
Date 17 to 21 February 2020
Institution Facultad de Ciencias Exactas y Naturales (UNCUYO), Mendoza, Argentina
Duration 40 hours

Research methodologies and tools for the thesis development
Date 20 November to 5 December 2018
Institution Instituto de Altos Estudios Espaciales "Mario Gulich"/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Radar Imaging Interferometry and Applications
Date 5 to 16 November 2018
Institution Instituto de Altos Estudios Espaciales "Mario Gulich"/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Spatial analysis and risk situations
Date 22 October to 2 November 2018
Institution Instituto de Altos Estudios Espaciales "Mario Gulich"/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Early warning numerical models, risk maps and simulation
Date 1 to 19 October 2018
Institution Instituto de Altos Estudios Espaciales “Mario Gulich”/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Synthetic Aperture Radar Imaging Applications
Date 3 to 27 September 2018
Institution Instituto de Altos Estudios Espaciales “Mario Gulich”/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Digital processing of satellite images and Geographic Information Systems
Date 13 to 31 August 2018
Institution Instituto de Altos Estudios Espaciales “Mario Gulich”/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Applications of digital photogrammetry
Date 18 to 29 June 2018
Institution Instituto de Altos Estudios Espaciales “Mario Gulich”/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Programming and numerical methods oriented to the treatment of satellite information.
Date 21 May to 8 June 2018
Institution Instituto de Altos Estudios Espaciales “Mario Gulich”/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Statistics
Date 9 to 18 April 2018
Institution Instituto de Altos Estudios Espaciales “Mario Gulich”/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Introduction to remote sensing
Date 12 March to 4 April 2018
Institution Instituto de Altos Estudios Espaciales “Mario Gulich”/FAMAF/CONAE, Falda del Cañete, Córdoba, Argentina
Duration 60 hours

Characterization of sliding glaciers using SAR images
Date 17 to 18 August 2017
Institution Comisión Nacionalde Actividades Espaciales (CONAE) y Capítulo Argentino de la IEEE de la Geoscienceand Remote Sensing Society, Córdoba, Argentina.
Duration 16 hours

Solar thermal energy of high concentration
Date 22 to 26 February 2016
Institution V Escuela de Verano de la Universidad Nacional de La Plata (UNLP), La Plata, Argentina
Duration 60 hours

SCIENTIFIC PRODUCTION

Publications in Journals

P1. SAOCOM-1 L-Band DInSAR Time Series Generation Through the P-SBAS Approach: Algorithm Extension and Products Analysis
Authors De Luca, C , Roa, Y. L. B., Bonano, M., Casu, F. , Euillades, P., Euillades, L. , Franzese, M., Manunta, M., Yasir, M., Onorato, G., Striano, P., Dini, L., Tapete, D. , and Lanari, R.
Journal Selected Topics in Applied Earth Observations and Remote Sensing
Year 2024
Contribution methodology, software application, validation and original draft writing
Impact Factor 3.5
DOI https://doi.org/10.1109/JSTARS.2024.3507554
Available in
https://ieeexplore.ieee.org/document/10769037

P2. New Advances of the P-SBAS Approach for an Efficient Parallel Processing of Large Volumes of Full-Resolution Multi-Temporal DInSAR Interferograms
Authors Bonano, M., Striano, P., Yasir, M., Buonanno, S., Casu, F., De Luca, C., Fusco, A, Roa, Y. L. B., ... & Lanari, R.
Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Year 2024
Contribution
Citations 3
Impact Factor 5.3
DOI https://doi.org/10.1109/JSTARS.2024.3507542
Available in
https://ieeexplore.ieee.org/abstract/document/10769035

P3. Interferometric assessment of SAOCOM-1 TOPSAR data
Authors Euillades, J. A., Roa, Y. L. B., Euillades, L. D., Euillades, P. A., Rosell, P. A., Solarte, E. A., & Perna, S
Journal IEEE Geoscience and Remote Sensing Letters
Year 2023
Contribution SAOCOM-1 TOPSAR data selection and processing
Citations 7
Impact Factor 4.4
DOI 10.1109/LGRS.2023.3347030
Available in
https://ieeexplore.ieee.org/abstract/document/10373865

P4. First assessment of the interferometric capabilities of SAOCOM-1A: New results over the Domuyo Volcano, Neuquén Argentina
Authors Roa, Y. L. B., Rosell, P. A, Solarte E. A, Euillades, L. D., Carballo, F., García, S., Euillades , P. A.
Journal of South American Earth Sciences. Elsevier
Year 2020
Contribution methodology, software application, validation and original draft writing
Citations 32
Impact Factor 1.5
DOI https://doi.org/10.1016/j.jsames.2020.102882
Available in
https://www.sciencedirect.com/science/article/abs/pii/S0895981120304259

C1. Franzese, M., De Maio, A., Lanari, R., Aubry, A., Noli, P., Onorato, G., **Roa, Y. L. B.**... & De Luca, C. (2024, November). Addressing ionospheric impairments in the azimuth ground displacements retrieved by using SAOCOM-1 L-band SAR data. In 2024 IEEE International Workshop on Technologies for Defense and Security (TechDefense) (pp. 92-97). IEEE. https://doi.org/10.1109/TechDefense63521.2024.10863204

C2. Natale, A., Barber, M., Berardino, P., Esposito, C., Euillades L. D., Euillades, P.A., Lanari; R., **Roa, Y. L. B.**, Rosell, P., Perna, S. (2024, July). Estimation of Soil Permittivity through Polarimetric Saocom-1 Data. In IGARSS 2024-2024 IEEE International Geoscience and Remote Sensing Symposium (pp. 5162-5165). IEEE. 10.1109/IGARSS53475.2024.10640697

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C6. Franzese, M., De Luca, C., Aubry, A., Bonano, M., Casu, F., Manunta, M., Onorato, G., **Roa, Y. L. B.**, Striano, P., De Maio, A., and Lanari, R.: Detection and mitigation of ionospheric artifacts in the azimuth ground displacements through the SAOCOM-1 L-band SAR data exploitation, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-16496, https://doi.org/10.5194/egusphere-egu24-16496

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C8. De Luca, C., **Roa, Y. L. B.**., Bonano, M., Casu, F., Euillades, P.A., Euillades, L.A., ... & Lanari, R. (2023, July). New advances of the P-SBAS approach for the generation of SAOCOM-1 L-band DInSAR time-series. In IGARSS 2023-2023 IEEE International Geoscience and Remote Sensing Symposium (pp. 1416-1419). IEEE. https://dx.doi.org/10.1109/IGARSS52108.2023.10281896

C9. Svigkas, N., Striano, P., Atzori, S., Bonano, M., Tolomei, C., Casu, F, De Luca, C, Franzese, M, Manunta, M, **Roa, Y. L. B.**, ... & Lanari, R. (2023, December). Source Modelling of the Turkey-Syria 2023 Seismic Event Based on SAOCOM, Sentinel-1 and ALOS-2 Satellite Data. In AGU Fall Meeting Abstracts (Vol. 2023, No. 359, pp. T33D-0359). https://ui.adsabs.harvard.edu/abs/2023AGUFM.T33D0359S

C10. De Luca, C., Roa, Y. L. B.; Bonano, M., Casu, F., Euillades, L. D, Euillades, P. A., Franzese, M., Manunta, M., Yasir, M., Onorato, G., Striano, P., Zinno, I., Lanari, R. On the P-SBAS Processing Chain New Developments for The Generation of SAOCOM-1 Advanced DInSAR Products, FRINGE 11-15 September 2023 UNIVERSITY OF LEEDS.

C11. Bonano, M., Monterroso, F., **Roa, Y. L. B.**, Striano, P., Franzese, M., De Luca, C., Casu, F., Manunta, M., Atzori, S., Onorato, G., Yasir, M., Zinno, I., Lanari, R. Joint Exploitation of Sentinel-1 And SAOCOM-1 SAR Data for Accurate Surface Deformation Retrieval of the February 2023 South-East Turkey Mw 7.8 And Mw 7.5 Seismic Events, FRINGE 11-15 September 2023 UNIVERSITY OF LEEDS.

C12. Casu, F., Berardino, P., Bonano, M., Buonanno, S., Casamento, F., Cotugno, F., De Luca, C., Di Vincenzo, A., Esposito, C., Franzese, M., Fusco, A., Manunta, M., Monterroso, F., Natale, A., Onorato, G., Perna, S., **Roa, Y. L. B.**, Striano, P., Yasir, M., Zeni, G., Zinno, I., Lanari, R. Supporting Civil Protection Activities with Spaceborne and Airborne InSAR Products In Volcanic And Seismic Regions, FRINGE 11-15 September 2023 UNIVERSITY OF LEEDS.

C13. Casu, F., Monterroso, F., **Roa, Y. L. B.**, Striano, P., Atzori, S., Bonano, M., De Luca, C., Franzese, M., Manunta, M., Onorato, G., Yasir, M., Zinno, I., and Lanari, R.: Surface deformation retrieval of the February 2023 South-East Turkeyand Northern Syria Mw 7.8 and Mw 7.5 seismic events through Sentinel-1 and SAOCOM-1 co-seismic SAR image analysis, EGU General Assembly 2023, Vienna, Austria, 23–28 Apr 2023, EGU23-17628, https://doi.org/10.5194/egusphere-egu23-17628

C14. Monterroso F., Berardino, P., Bonano, M., Buonanno, S., Casamento, F., Cotugno, F., De Luca, C., Di Vincenzo, A., Esposito C., Franzese, F., Fusco, A., Lanari, R., Manunta, M., Natale, A., Onorato, G., Perna, S., **Roa, Y. L. B.**, Striano, P., Yasir, M., Zeni, G., Zinno, I., Casu, F. Spaceborne and airborne DInSAR products generation and analysis to support Civil Protection activities in volcanic and seismic regions, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-14140, https://doi.org/10.5194/egusphere-egu23-14140

C15. De Luca, C., **Roa, Y. L. B.**, Bonano, M., Casu, F., Franzese, M., Manunta, M., Muhammad, Y., Onorato, G., Striano, P., Zinno, I., and Lanari, R.: On the exploitation of L-band DInSAR products retrieved through the SAOCOM-1 constellation for the investigation of natural and anthropogenic hazards., EGU General Assembly 2023, Vienna, Austria, 23–28 Apr 2023, EGU23-7005, https://doi.org/10.5194/egusphere-egu23-7005

C16. Casu, F., Berardino, P., Bonano, M., Buonanno, S., Casamento, F., De Luca, C., Esposito, C., Fusco, A., Lanari, R., Manunta, M., Manzo, M., Monterroso, F., Natale, A., Onorato, G., Perna, S., **Roa, Y. L. B**., Striano, P., Yasir, M., Zeni, G., and Zinno, I. DInSAR-based monitoring services for ground deformation retrieval on active volcanoes and seismic regions through spaceborne and airborne radar sensors, 17th Plinius Conference on Mediterranean Risks, Frascati, Rome, Italy, 18–21 Oct 2022, Plinius17-78. https://doi.org/10.5194/egusphere-plinius17-78

C17. De Luca, C., **Roa, Y. L. B.**, Bonano, M., Casu, F., Manunta, M., Manzo, M., Striano, P., Lanari, R. On the First Results of the DInSAR-3M Project: A Focus on the Interferometric Exploitation of Saocom SAR Images, IGARSS 2022 - 2022 IEEE International Geoscience and Remote Sensing Symposium. https://doi.org/10.1109/IGARSS46834.2022.9884715

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C19. Euillades, P. A., Euillades, L. E., Rosell, P., **Roa, Y. L. B**. Subsidence in Maceio, Brazil, Characterized by Dinsar and Inverse Modeling, 2020 IEEE Latin American GRSS & ISPRS Remote Sensing Conference (LAGIRS). https://doi.org/10.1109/LAGIRS48042.2020.9165567

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C21. **Roa, Y. L. B**, Montero, M. F., Fernández Reche, J. Diseño, análisis de costo y comparación de centrales termosolares de 30Mwe para la Provincia de Buenos Aires, XXVIII Reunión Científica de la Asociación Argentina de Geofísicos y Geodestas, La Plata Argentina, 2017. https://sedici.unlp.edu.ar/bitstream/handle/10915/60718/Documento_completo.pdf-PDFA.pdf?sequence=3&isAllowed=y (see pag. 68-72)

C22. **Roa, Y. L. B.**, Montero, M. F., Dugaro, A., Fernández Reche, J. Estudio de mapas de radiación, heliofanía efectiva e intensidad de vientos para el posible emplazamiento de una central termosolar en las provincias de San Juan, La Rioja y Catamarca. XXVIII Reunión Científica de la Asociación Argentina de Geofísicos y Geodestas, La Plata Argentina, 2017 https://sedici.unlp.edu.ar/bitstream/handle/10915/60712/Documento_completo__.pdf-FFA.pdf?sequence=3 (see pag. 135)

C23. **Roa, Y. L. B.**, Montero, M. F., Fernández Reche, J. Diseño y comparación de tecnologías para una central termosolar de 30 MWe, 2°Congreso de Energías Sustentables, Bahía Blanca, Argentina,2016. ces.frbb.utn.edu.ar/2016/archivos/Compilado final 18-10-16.pdf (see pag. 22)

C24. Acosta, A., Gelpi, G.,] **Roa, Y. L. B.,** Vergani, G., Quinteros, Y. Interpretación sismo estratigráfica de la plataforma marina de la cuenca de malvinas a partir de sísmica 2D. IX Congresso di Esplorazione e Sviluppo degli Idrocarburi, Mendoza, Argentina. 2014.

TECHNICAL-SCIENTIFIC REPORTS

R1. DInSAR analysis of Stromboli using Sentinel-1 and SAOCOM data. Updated February 5, 2023

Authors Manuela Bonano, Francesco Casu, Claudio De Luca, Michele Manunta, Fernando Monterroso, Giovanni Onorato, Yenni Roa, Ivana Zinno

References or protocol number WP1_EOLI_SNT_23_02_S

Description provides a description of the ground displacements measured on the island of Stromboli, in the period 24 April 2015 - 5 February 2023, using Synthetic Aperture Radar Differential Interferometry (DInSAR) techniques applied to the data acquired by the Sentinel-1 sensors of the program European Copernicus.

R2. DInSAR analysis of Stromboli using Sentinel-1 and SAOCOM data. Updated January 6, 2023

Authors Manuela Bonano, Francesco Casu, Claudio De Luca, Michele Manunta, Fernando Monterroso, Giovanni Onorato, Yenni Roa, Ivana Zinno

References or protocol number WP1_EOLI_SNT_23_01_S

Description provides a description of the ground displacements measured on the island of Stromboli, in the period 24 April 2015 - 6 January 2023, using Synthetic Aperture Radar Differential Interferometry (DInSAR) techniques applied to the data acquired by the Sentinel-1 sensors of the program European Union Copernicus and SAOCOM of the Argentine Space Agency (CONAE).

R3. DInSAR analysis of Stromboli using Sentinel-1 and SAOCOM data. Update December 7, 2022

Authors Manuela Bonano, Francesco Casu, Claudio De Luca, Michele Manunta, Mariarosaria Manzo, Fernando Monterroso, Giovanni Onorato, Yenni Roa, Ivana Zinno

References or protocol number WP1WP1_EOLI_SNT_22_12_S

Description provides a description of the ground displacements measured on the island of Stromboli, in the period 24 April 2015 - 7 December 2022, using Synthetic Aperture Radar Differential Interferometry (DInSAR) techniques applied to the data acquired by the Sentinel-1 sensors of the program European Copernicus.

R4. DInSAR analysis of Stromboli using Sentinel-1 and SAOCOM data. Update November 1, 2022

Authors Manuela Bonano, Francesco Casu, Claudio De Luca, Michele Manunta, Mariarosaria Manzo, Fernando Monterroso, Giovanni Onorato, Yenni Roa, Ivana Zinno

References or protocol number WP1WP1_EOLI_SNT_22_11_S

Description provides a description of the ground displacements measured on the island of Stromboli, in the period 24 April 2015 - 1 November 2022, using Synthetic Aperture Radar Differential Interferometry (DInSAR) techniques applied to the acquired data
by the Sentinel-1 sensors of the European Copernicus program and SAOCOM of the Argentine space agency (CONAE).

R5. DInSAR Multi-frequenza/Multi- piattaforma per analisi Multi- scala dei movimenti del suolo (DInSAR-3M). Progress report of October 2021

Authors Riccardo Lanari, Paolo Berardino, Manuela Bonano, Sabatino Buonanno, Nicola Casagli, Francesco Casu, Claudio De Luca, Francesca Di Matteo, Carmen Esposito, Pablo Euillades, Michele Manunta, Mariarosaria Manzo, Alessandro Mondini, Antonio Natale, Federico Raspini, Yenni Roa, Stefano Perna, Pasquale Striano, Pietro Tizzani

References or protocol number ASI CONTRACT N° 2021-8-U.0

Description the DInSAR-3M project aims to generate, through the development of an innovative methodology, displacement time series and corresponding mean deformation velocity maps relevant to the ground surface, spatially and temporally dense, even three-dimensional, for the multi-scale analysis of both the natural and anthropogenic deformation phenomena. The project objective was pursued through the use of Advanced Differential SAR Interferometry (DInSAR) techniques and the development of algorithms for the integration of multi-frequency (X-, C- and L- band) and multi-platform SAR data, i.e., acquired from different satellite and aerial platforms. In particular, within the DInSAR-3M project, the team aims at developing a methodology which takes advantage from the very large ground coverage of the L-band SAR systems, from the high accuracy characterizing the X- and C- band SAR products and from the versatility of the aerial platforms.

R6. DInSAR Multi-frequenza/Multi- piattaforma per analisi Multi- scala dei movimenti del suolo (DInSAR-3M). Progress report of January 2022

Authors Riccardo Lanari, Paolo Berardino, Manuela Bonano, Sabatino Buonanno, Nicola Casagli, Francesco Casu, Claudio De Luca, Francesca Di Matteo, Carmen Esposito, Pablo Euillades, Michele Manunta, Mariarosaria Manzo, Alessandro Mondini, Antonio Natale, Federico Raspini, Yenni Roa, Stefano Perna, Pasquale Striano, Pietro Tizzani

References or protocol number ASI CONTRACT N° 2021-8-U.0

Description as for R5

R7. DInSAR Multi-frequenza/Multi- piattaforma per analisi Multi- scala dei movimenti del suolo (DInSAR-3M). Progress report of March 2022
Authors Riccardo Lanari, Paolo Berardino, Manuela Bonano, Sabatino Buonanno, Nicola Casagli, Francesco Casu, Claudio De Luca, Francesca Di Matteo, Carmen Esposito, Pablo Euillades, Michele Manunta, Mariarosaria Manzo, Alessandro Mondini, Antonio Natale, Federico Raspini, Yenni Roa, Stefano Perna, Pasquale Striano, Pietro Tizzani
References or protocol number ASI CONTRACT N° 2021-8-U.0
Description as for R5

R8. DInSAR Multi-frequenza/Multi- piattaforma per analisi Multi- scala dei movimenti del suolo (DInSAR-3M). Progress report of June 2022
Authors Riccardo Lanari, Paolo Berardino, Manuela Bonano, Sabatino Buonanno, Nicola Casagli, Francesco Casu, Claudio De Luca, Francesca Di Matteo, Carmen Esposito, Pablo Euillades, Michele Manunta, Mariarosaria Manzo, Alessandro Mondini, Antonio Natale, Federico Raspini, Yenni Roa, Stefano Perna, Pasquale Striano, Pietro Tizzani
References or protocol number ASI CONTRACT N° 2021-8-U.0
Description as for R5

R9. DInSAR Multi-frequenza/Multi- piattaforma per analisi Multi- scala dei movimenti del suolo (DInSAR-3M). Progress report of November 2022
Authors Riccardo Lanari, Paolo Berardino, Manuela Bonano, Sabatino Buonanno, Nicola Casagli, Francesco Casu, Claudio De Luca, Francesca Di Matteo, Carmen Esposito, Pablo Euillades, Michele Manunta, Mariarosaria Manzo, Alessandro Mondini, Antonio Natale, Federico Raspini, Yenni Roa, Stefano Perna, Pasquale Striano, Pietro Tizzani
References or protocol number ASI CONTRACT N° 2021-8-U.0
Description as for R5

R10. DInSAR Multi-frequenza/Multi- piattaforma per analisi Multi- scala dei movimenti del suolo (DInSAR-3M). Progress report of January 2023
Authors Riccardo Lanari, Paolo Berardino, Manuela Bonano, Sabatino Buonanno, Nicola Casagli, Francesco Casu, Claudio De Luca, Francesca Di Matteo, Carmen Esposito, Pablo Euillades, Michele Manunta, Mariarosaria Manzo, Alessandro Mondini, Antonio Natale, Federico Raspini, Yenni Roa, Stefano Perna, Pasquale Striano, Pietro Tizzani
References or protocol number ASI CONTRACT N° 2021-8-U.0
Description as for R5

PARTICIPATION TO CONFERENCES

Attendance to international conferences

2020 IEEE International Geoscience and Remote Sensing Symposium
Date 26 September - 2 October 2020
Place Virtual Event

IEEE GRSS school "Advanced methods for remote sensing information extraction"(AMERSIE)
Date 3 to 5 November 2020
Place Tromsø, Norway. Virtual Event

1st IEEE Geoscience and Remote Sensing Society (GRSS) Instrumentation and Future Technologies (IFT) Remote Sensing Summer School (IFT-R3S)
Date 1 to 5 July 2018
Place Barcelona, Spain

Solar PACES 2017. Solar Power&Chemical Energy Systems
Date 26 to 29 September 2017
Place Santiago de Chile, Chile
Poster presentation Comparison of Satellite DNI Models and On-site Measurements in Argentina

Attendance to national conferences

Spring Remote Sensing School: "The SAR radar as a tool to monitoring the environment and production". CELFI - Sustentabilidad y Desarrollo, Córdoba, Argentina
Date 10 to 21 September 2018 (80 hours)
Place Córdoba, Argentina

Second Spring Remote Sensing School. Comisión Nacional de Actividades Espaciales (CONAE) y Capítulo Argentino de la IEEE Geoscience and Remote Sensing Society
Date 14 to 18 August 2017 (40 hours)
Place Córdoba, Argentina

XXVIII Reunión Científica de la Asociación Argentina de Geofísicos y Geodestas, La Plata, Argentina
Date 17 to 21 April 2017
Place La Plata, Argentina
Oral presentation Design, cost analysis and comparison of 30MWe Solar Thermal Power Plants for the Province of Buenos Aires
Poster presentation Study of radiation maps, effective heliophany and wind intensity for the possible location of a thermosolar plant in the provinces of San Juan, La Rioja and Catamarca

2°Congreso de Energías Sustentables, Bahía Blanca, Argentina
Date 26 to 28 October 2016
Place Bahía Blanca, Argentina
Oral presentation Design and comparison of two possible technologies for a 30 MWe Thermosolar plant

IX Congreso de Exploración y Desarrollo de Hidrocarburos, Mendoza, Argentina
Date 4 to 7 November 2014
Place Mendoza, Argentina
Poster presentation Seismic Stratigraphic Interpretation of the Marine Platform of the Malvinas Basin from 2D seismic

Signature