

Gustavo Adolfo Siles Soria, Ph.D.

Age: 45
Nationality: Bolivian and Spanish
Languages: Spanish (maternal), English (advanced), French (advanced)

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RESEARCH AREAS Radiopropagation, Satellite communication systems, Wireless communications.

EDUCATION **Ph.D. Communication Systems and Technologies, *Cum Laude*, 2012**

Universidad Politécnica de Madrid, Madrid, SPAIN.

Master Optoelectronics, Microwaves and Telecommunication Systems, 2006

Université de Montpellier 2, Montpellier, FRANCE.

Bachelor on Electronics Engineering, 2002

Universidad Mayor de San Simón, Cochabamba, BOLIVIA.

Approved to the equivalent of Engineer in Electronics.
Certificate 0740994 2009/H18452 SPAIN, 2009

RESEARCH POSITIONS **Universidad Privada Boliviana, Cochabamba, BOLIVIA**
Head of the Radiocommunications Laboratory. **November, 2021 to present**
Research Professor **April, 2017 to present**

Universidad Politécnica de Madrid, Madrid, SPAIN
Doctoral Researcher **October, 2009 to March, 2015**
Research Fellow **March, 2009 to July, 2009**

PUBLICATIONS

SCOPUS Journals

1. D. Pimienta-del-Valle, G. A. Siles, J. M. Riera, P. García-del-Pino, “Experimental Assessment of Cloud Attenuation in a Q-band Slant-Path Link”, *IEEE Transactions on Antennas and Propagation*, Vol. 72, no. 2, pp. 1772-1778, February 2024, DOI: 10.1109/TAP.2023.3346989.
Available on: <https://ieeexplore.ieee.org/document/10380510>
2. L. Luini, G. A. Siles, J. M. Riera, “Total Attenuation from Slant-Path Propagation Measurements in the Absence of Radiometric Data: Assessment of two Procedures”, *IEEE Transactions on Antennas and Propagation*, Vol. 69, no. 7, pp. 5116-5127, July 2020, DOI: 10.1109/TIM.2019.2950612.
Available on: <https://ieeexplore.ieee.org/abstract/document/8887513/>

3. D. Pimienta-del-Valle, J. M. Riera, P. García-del-Pino, and G. A. Siles “Three-year fade and inter-fade duration statistics from the Q-Band Alphasat propagation experiment in Madrid”, *International Journal of Satellite Communications and Networking*, DOI: 10.1002/sat.1271. 2019.
Available on: <https://onlinelibrary.wiley.com/doi/abs/10.1002/sat.1271>
4. J. M. García-Rubia, J. M. Riera , P. García-del-Pino , D. Pimienta-del-Valle, G. A. Siles, “Fade and Interfade Duration Characteristics in a Slant-Path Ka-Band Link”, *IEEE Transactions on Antennas and Propagation*, Vol. 65, pp. 7198-7206, DOI: 10.1109/TAP.2017.2758839. 2017.
Available on: <https://ieeexplore.ieee.org/abstract/document/8055573>
5. G. A. Siles, J. M. Riera, and P. García-del-Pino, “An Application of IGS Zenith Tropospheric Delay Data to Propagation Studies: Validation of Radiometric Atmospheric Attenuation”, *IEEE Transactions on Antennas and Propagation*, Vol. 64, pp. 262-270, DOI: 10.1109/TAP.2015.2502592. 2016.
Available on: <https://ieeexplore.ieee.org/abstract/document/7332946>
6. J. M. García-Rubia, J. M. Riera , P. García-del-Pino , G. A. Siles, and A. Benarroch, “Experimental Assessment of Slant-path Rain Attenuation Variability in the Ka-Band”, *International Journal of Satellite Communications and Networking*. Vol. 34, pp. 155-170, DOI: 10.1002/sat.1105. 2016.
Available on: <https://onlinelibrary.wiley.com/doi/abs/10.1002/sat.1105>
7. G. A. Siles, J. M. Riera, and P. García-del-Pino, “Atmospheric Attenuation in Wireless Communications Systems at Millimeter and THz Frequencies”, *IEEE Antennas and Propagation Magazine*, Vol. 57, pp. 48-61, DOI: 10.1109/MAP.2015.2401796. 2015.
Available on: <https://ieeexplore.ieee.org/abstract/document/7061628>
8. G. A. Siles, J. M. Riera, P. García-del-Pino, B. Mencia-Oliva, and J. Grajal, “Propagation measurements at 19.7 and 99 GHz using ground-based radiometers”, *IEEE Geoscience and Remote Sensing Letters*, Vol. 11, pp. 1375-1379, DOI: 10.1109/LGRS.2014.2339454. 2013.
Available on: <https://ieeexplore.ieee.org/abstract/document/6680621>
9. G. A. Siles, J. M. Riera, P. García-del-Pino, and J. Romeu, “Atmospheric Propagation at 100 and 300 GHz: Assessment of a Method to Identify Rainy Conditions during Radiosoundings”, *Progress In Electromagnetics Research*, Vol. 130, pp. 257-279, DOI: 10.2528/PIER12062603. 2012.
Available on: <https://www.jpier.org/pier/pier.php?paper=12062603>
10. G. A. Siles, J. M. Riera and P. García-del-Pino, “On the Use of Radiometric Measurements to Estimate Atmospheric Attenuation at 100 and 300 GHz”, *Journal of Infrared, Millimeter and Terahertz Waves*, Vol. 32, pp. 528-540, DOI: 10.1007/s10762-011-9770-0. 2011.
Available on:
<https://link.springer.com/article/10.1007/s10762-011-9770-0>

SCOPUS Indexed Conferences

1. GA. Siles, N. Ayllon, “Annual Statistics from 5 Years of 1-Minute Rainfall Rate Measurements at a Specific Site in Bolivia”, *18th European Conference on Antennas and Propagation, EuCAP2024*, Glasgow, Scotland, March 2024.
Available on: <https://ieeexplore.ieee.org/document/10501124>

2. D. Pimienta-del-Valle, GA. Siles, JM. Riera, P. García-del-Pino “Cloud Attenuation in the Q band: Estimation from Experimental Data of Excess Attenuation”, *18th European Conference on Antennas and Propagation, EuCAP2024*, Glasgow, Scotland, March 2024.
Available on: <https://ieeexplore.ieee.org/document/10501341>
3. A. Benarroch, GA. Siles, M. Cuiza, JM. Riera, “Comparison Between ERA5 Cloud Parameters and Rainfall Rate in Madrid”, *18th European Conference on Antennas and Propagation, EuCAP2024*, Glasgow, Scotland, March 2024.
Available on: <https://ieeexplore.ieee.org/document/10501454>
4. A. Benarroch, GA. Siles, JM. Riera, “Relationship between Cloud Cover and Rainfall Rate in Madrid: First Results”, *17th European Conference on Antennas and Propagation, EuCAP2023*, Florence, Italy, March 2023.
Available on: <https://ieeexplore.ieee.org/abstract/document/10133265/>
5. GA. Siles, JP. Arciénega, Y. Balderrama, “Accuracy assessment of water vapor and cloud attenuation estimated from ERA5 single level parameters at two sites with large difference of altitude”, *16th European Conference on Antennas and Propagation, EuCAP2022*, Madrid, Spain, March 2022.
Available on: <https://ieeexplore.ieee.org/abstract/document/9769021/>
6. GA. Siles, M. Alvarez, “Rainfall measurements in Bolivia: Conversion of statistics from 15-min to 1-min by EXCELL RSC model and accuracy test of ITU-R P. 837”, *16th European Conference on Antennas and Propagation, EuCAP2022*, Madrid, Spain, March 2022.
Available on: <https://ieeexplore.ieee.org/abstract/document/9769351/>
7. A. Benarroch, GA. Siles, JM. Riera, “Height of the 0° C Isotherm and the Melting Layer in Madrid: Comparison of Estimations from Different Sensors”, *16th European Conference on Antennas and Propagation, EuCAP2022*, Madrid, Spain, March 2022.
Available on: <https://ieeexplore.ieee.org/abstract/document/9769329/>
8. D. Pimienta-del-Valle, JM. Riera, P. Garcia-del-Pino, GA Siles, A Benarroch, “Propagation Experiments in Madrid for the Ka and Q Bands: Recent Results and Rain Attenuation Modelling in the Earth-Satellite Channel”, *15th European Conference on Antennas and Propagation, EuCAP2021*, Dusseldorf, Germany, March 2021.
Available on: <https://ieeexplore.ieee.org/abstract/document/9411221/>
9. G. A. Siles, M. Heredia, R. Harriague, “Cloud detection models and their effect on the calculation of cloud attenuation: Assessment at Kaand Q-band at 4065 meters of altitude”, *14th European Conference on Antennas and Propagation, EuCAP2020*, Copenhagen, Denmark, March 2020.
Available on: <https://ieeexplore.ieee.org/abstract/document/9135558/>
10. A. Benarroch, G. A. Siles, and J. M. Riera, S. Perez-Peña, “Heights of the 0°C Isotherm and the Bright Band in Madrid: Comparison and Variability”, *14th European Conference on Antennas and Propagation, EuCAP2020*, Copenhagen, Denmark, March 2020.
Available on: <https://ieeexplore.ieee.org/abstract/document/9135509/>
11. G. A. Siles, M. Heredia, M. Vilela, “Propagation study at 4065-m amsl: Attenuation due to gases at Ka, Q, V and W bands using radiosonde observations”, *13th European Conference on Antennas and Propagation, EuCAP2019*, Krakow, Poland, April 2019.
Available on: <https://ieeexplore.ieee.org/abstract/document/8739800/>

12. L. Luini, C. Riva, L. Quibus, D. Vanhoenacker-Janvier, G. A. Siles, J. M. Riera “Water Vapor Retrieval to Support Electromagnetic Wave Propagation Experiments: Results from Different Techniques”, *13th European Conference on Antennas and Propagation, EuCAP2019*, Krakow, Poland, April 2019.
Available on: <https://ieeexplore.ieee.org/abstract/document/8739535/>
13. D. Pimienta-del-Valle, P. García-del-Pino, J. M. Riera, G. A. Siles, “A Four-Year Variability Study for Ka- And Q-band Slant Path Propagation Experiments in Madrid”, *13th European Conference on Antennas and Propagation, EuCAP2019*, Krakow, Poland, April 2019.
Available on: <https://ieeexplore.ieee.org/abstract/document/8739858/>
14. A. Benarroch, G. A. Siles, and J. M. Riera, “Variability of the 0°C Isotherm: Monthly Variations and Correlation with Ground Temperature”, *13th European Conference on Antennas and Propagation, EuCAP2019*, Krakow, Poland, April 2019.
Available on: <https://ieeexplore.ieee.org/abstract/document/8740304/>
15. M. Vilela, and G. A. Siles, “On the Use of the Integrated Global Radiosonde Archive in Satellite Propagation Studies in Bolivia”, *IEEE XXV International Conference on Electronics, Electrical Engineering and Computing, INTERCON 2018*, Lima, Peru, August 2018.
Available on: <https://ieeexplore.ieee.org/abstract/document/8526461/>
16. A. Benarroch, G. A. Siles, and J. M. Riera, “Variability of the 0° Isotherm in the Iberian Peninsula”, *12th European Conference on Antennas and Propagation, EuCAP2018*, London, England, April 2018.
Available on: <https://ieeexplore.ieee.org/abstract/document/8568942/>
17. D. Pimienta-del-Valle, J. M. Riera, P. García-del-Pino, and G. A. Siles, “Alphasat Experiment in Madrid: Modeling Considerations on Fade and Inter-Fade Durations”, *12th European Conference on Antennas and Propagation, EuCAP2018*, London, England, April 2018.
Available on: <https://ieeexplore.ieee.org/abstract/document/8671665/>
18. J. M. Riera, D. Pimienta-del-Valle, P. García-del-Pino, G. A. Siles, and A. Benarroch, “Alphasat Propagation Experiment in Madrid: Results on Excess and Total Attenuation”, *11th European Conference on Antennas and Propagation, EuCAP2017*, Paris, France, March 2017.
Available on: <https://ieeexplore.ieee.org/abstract/document/7928777/>
19. J. M. Riera, G. A. Siles, P. García-del-Pino, and A. Benarroch, “Alphasat Propagation Experiment in Madrid: Processing of the First Year of Measurements”, *10th European Conference on Antennas and Propagation, EuCAP2016*, Davos, Switzerland, April 2016.
Available on: <https://ieeexplore.ieee.org/abstract/document/7481978/>
20. J. M. Riera, G. A. Siles, P. García-del-Pino, and A. Benarroch, “Alphasat Propagation Experiment in Madrid: Quality Assessment of the Measurements”, *9th European Conference on Antennas and Propagation, EuCAP2015*, Lisboa, Portugal, April 2015.
Available on: <https://ieeexplore.ieee.org/abstract/document/7228773/>
21. J. M. García-Rubia, J. M. Riera, P. García-del-Pino, G. A. Siles, and A. Benarroch, “Fade Dynamics Variability in a Long-Term Slant-Path Ka-Band Experiment”, *9th European Conference on Antennas and Propagation, EuCAP2015*, Lisboa, Portugal, April 2015.
Available on: <https://ieeexplore.ieee.org/abstract/document/7228788/>

22. A. Benarroch, J. M. García-Rubia, J. M. Riera, P. García-del-Pino, and G. A. Siles, "Propagation measurements on terrestrial links in Madrid", *2014 XXXIth URSI General Assembly and Scientific Symposium (URSI GASS)*, Beijing, China, August 2014.
Available on: <https://ieeexplore.ieee.org/abstract/document/6929619/>
23. G. A. Siles, J. M. Riera, and P. García-del-Pino, "Study on the Use of New IGS Zenith Tropospheric Delay Products to Estimate Water Vapor Attenuation", *8th European Conference on Antennas and Propagation, EuCAP2014*, The Hague, The Netherlands, April 2014.
Available on: <https://ieeexplore.ieee.org/abstract/document/6901687/>
24. G. A. Siles, J. M. Riera, and P. García-del-Pino, "Comparison of Attenuation Measurements At 19.7 GHz From Radiometer Observations, GNSS Delay Data and Radiosondes", *8th European Conference on Antennas and Propagation, EuCAP2014*, The Hague, The Netherlands, April 2014.
Available on: <https://ieeexplore.ieee.org/abstract/document/6901689/>
25. J. M. Riera, P. García-del-Pino, G. A. Siles, and A. Benarroch, "Propagation Experiment in Madrid Using the Alphasat Q-Band Beacon", *8th European Conference on Antennas and Propagation, EuCAP2014*, The Hague, The Netherlands, April 2014.
Available on: <https://ieeexplore.ieee.org/abstract/document/6901943/>
26. J. M. García-Rubia, J. M. Riera, P. García-del-Pino, G. A. Siles, and A. Benarroch, "Rain Attenuation Variability Calculated From a Slant-Path Ka-Band Experiment", *8th European Conference on Antennas and Propagation, EuCAP2014*, The Hague, The Netherlands, April 2014.
Available on: <https://ieeexplore.ieee.org/abstract/document/6901850/>
27. G. A. Siles, J. M. Riera, P. García-del-Pino, B. Mencia-Oliva, and J. Grajal, "Estimation of Atmospheric Attenuation at 99 GHz Using a Total Power Radiometer", *7th European Conference on Antennas and Propagation, EuCAP2013*, Gothenburg, Sweden, April 2013
Available on: <https://ieeexplore.ieee.org/abstract/document/6546748/>
28. G. A. Siles, J. M. Riera, and P. García-del-Pino, "Atmospheric attenuation at 100 and 300 GHz estimated with radiosonde data", *6th European Conference on Antennas and Propagation, EuCAP2012*, Prague, Czech Republic, March 2012
Available on: <https://ieeexplore.ieee.org/abstract/document/6206227/>
29. G. A. Siles, J. M. Riera, and P. García-del-Pino, "Considerations on cloud attenuation at 100 and 300 GHz for propagation measurements within the TeraSense project", *5th European Conference on Antennas and Propagation, EuCAP2011*. Rome, Italy, April 2011
Available on: <https://ieeexplore.ieee.org/abstract/document/5782587/>
30. G. A. Siles; J. M. Riera; P. García-del-Pino, "THz Propagation Research within the TERASENSE Project: Atmospheric Gases Attenuation", *4th European Conference on Antennas and Propagation, EuCAP2010*. Barcelona, Spain, April 2010.
Available on: <https://ieeexplore.ieee.org/abstract/document/5505278/>

Non-SCOPUS Indexed Journals

1. G. Jaimes, G. Siles, “Methodology of performance measurement of LTE-A networks based on RSRP coverage using amobile application for teaching lab activities”, *Investigación & Desarrollo*, Vol. 22, N° 1. pp. 135-144. 2022.
Available on: <http://www.scielo.org.bo/pdf/riyd/v22n1/2518-4431-riyd-22-01-135.pdf>
2. G. Siles, “Reanálisis climatológico ERA5: Una revisión sobre su uso en el cálculo de atenuación atmosférica en sistemas de comunicaciones satelitales”, *Investigación & Desarrollo*, Vol. 22, N° 2. pp. 145-159. 2022.
Available on: <http://www.scielo.org.bo/pdf/riyd/v22n1/2518-4431-riyd-22-01-145.pdf>
3. A. Garcia, G. Siles, JP. Arciénega, Y. Balderrama, “Cloud attenuation at Ka, Q and W bands based on radiosoundings during rainy and non rainy seasons in Central Andes: A study in El Alto, Bolivia”, *Investigación & Desarrollo*, Vol. 21, N° 1. pp. 5-15. 2021.
Available on: http://www.scielo.org.bo/pdf/riyd/v21n1/v21n1_a01.pdf
4. G. Siles, G. Marín, “Aplicación web para estimación de atenuación por lluvia en enlaces con el satélite TKSAT-1”, *Investigación & Desarrollo*, Vol. 20, N° 1. pp. 89-97. 2020.
Available on: http://www.scielo.org.bo/pdf/riyd/v20n1/v20n1_a07.pdf
5. A. Benítez, B. Villena, L. Rivera, A. Laguna-Tapia, G. Siles, “Análisis comparativo: el marco normativo de la TDT y su aplicación por los gobiernos de Argentina, Bolivia, Brasil y Ecuador”, *Investigación & Desarrollo*, Vol. 19, N° 2. pp. 127-135. 2019.
Available on: http://www.scielo.org.bo/pdf/riyd/v19n2/v19n2_a08.pdf
6. G. Siles, A. Laguna, “Revisión y análisis crítico sobre la implementación de la televisión digital terrestre en Bolivia”, *Investigación & Desarrollo*, Vol. 19, N° 1. pp. 113-131. 2019.
Available on: http://www.scielo.org.bo/pdf/riyd/v19n1/v19n1_a09.pdf
7. J. Orozco, G. A. Siles, “Estudio radioeléctrico y problemáticas en una red WiFi con alta densidad de usuarios”, *Acta Nova*, Vol. 9, N° 1. pp. 32-52. 2019.
Available on: http://www.scielo.org.bo/pdf/ran/v9n1/v9n1_a03.pdf
8. G. A. Siles, D. Chirinos, “Estimación de intensidad de lluvia para estudios de propagación radioeléctrica en Bolivia”, *Investigación & Desarrollo*, Vol. 18, N° 1. pp. 69-79. 2018.
Available on: http://www.scielo.org.bo/pdf/riyd/v18n1/v18n1_a06.pdf

RESEARCH PROJECTS

Universidad Privada Boliviana: 2017 to present

1. **Radiowave propagation studies from pluviometer measurements and ERA5 rain products.**
Financier: Universidad Privada Boliviana
Period of duration: 2022-2024.
Role: Principal Investigator
2. **Use of ERA5 atmospheric profiles for radiopropagation in Bolivia**
Financier: Universidad Privada Boliviana
Period of duration: 2022-2024.
Role: Principal Investigator

3. **Collaboration with the Polytechnic University of Madrid in radiopropagation and radiocommunications areas - Phase 1, 2 and 3**
Financier: Universidad Privada Boliviana - Universidad Politécnica de Madrid
 Period of duration: 2017-2024.
 Role: Invited researcher
4. **Low power wide area networks**
Financier: Universidad Privada Boliviana
 Period of duration: 2021-2023.
 Role: Principal Investigator
5. **Application of ERA5 climate reanalysis in propagation studies for satellite communication systems**
Financier: Fundación Carolina (SPAIN)
 Period of duration: 2020-2021.
 Role: Principal Investigator
6. **Effects caused by rain at Ka-band satellite communications**
Financier: Universidad Privada Boliviana
 Period of duration: 2019-2021.
 Role: Principal Investigator
7. **Modeling of propagation parameters for satellite links at 4000 m of altitude using radiosonde observations**
Financier: Universidad Privada Boliviana
 Period of duration: 2019-2021.
 Role: Principal Investigator
8. **News and perspectives of the implementation of Digital Terrestrial Television (DTT) in Bolivia**
Financier: Universidad Privada Boliviana
 Period of duration: 2018-2019.
 Role: Co-Principal Investigator
9. **Use of local meteorological variables in radiowave propagation studies for terrestrial and slant-path radio links design**
Financier: Universidad Privada Boliviana
 Period of duration: 2017-2019.
 Role: Principal Investigator

Universidad Politécnica de Madrid: 2009 to 2015

1. **Caracterización experimental de la propagación atmosférica y modelado de canal en ondas milimétricas, orientado a su futuro uso en redes de comunicaciones fijas y móviles 5G.**
Financier: Ministerio de Economía y Competitividad. España.
 Period of duration: 2015-2017.
 Role: Research assistant
2. **Development of High Order Propagation Models for Multimedia Satellite Communications Systems**
Financier: Agencia Espacial Europea.
 Main contractor: ONERA (FR);
 Sub-contractors: PoliMi (IT), JR Research (AU), UPM (SP), University of Aveiro (PT)
 Period of duration: January 2013 to September 2015.
 Role: Research assistant

3. **Terahertz Technology for Electromagnetic Sensing Applications**
Financier: Ministerio de Ciencia e Innovación, España. Programa Consolidar-Ingenio 2010.
 Coordinator: UPC (Spain)
 Consortium: 11 spanish universities.
 Period of duration: January 2009 to December 2014.
 Role: Researcher
4. **Propagation in the millimeter and Terahertz frequency bands: Experimental study of the interaction with the atmosphere.**
Financier: Ministerio de Ciencia e Innovación. Spain
 Period of duration: January 2011 to December 2014.
 Role: Research assistant
5. **Simulación de radioenlaces HF.**
Financier: Rohde&Schwarz Spain
 Period of duration: 2010-2012.
 Role: Research assistant
6. **Planificación radioeléctrica de nuevos servicios de radiocomunicaciones**
Financier: Intelia Consultores (Spain)
 Period of duration: 2008-2010.
 Role: Research assistant

CONFERENCES AS
 INVITED KEYNOTE
 SPEAKER (LAST 3
 YEARS)

Redes de comunicaciones inalámbricas para reducir la brecha digital
Conference Series "Telecomunicaciones en la industria, en el emprendimiento y la academia". Escuela Superior Politécnica del Chimborazo, Ecuador, January, 2022

Conversión de estadísticas de intensidad de lluvia para estudios de radio-propagación
Forum Telecom 2021 – IEEE ComSoc Bolivia, May, 2021

Meteorología GNSS y su uso en el cálculo de atenuación por vapor de agua en enlaces de comunicaciones satelitales
Conference Series organized by the Agencia Boliviana Espacial, November, 2020

Experimentos de propagación en 20 y 40 GHz para sistemas de comunicaciones satelitales
Conference organized by UPB, UPM, and ABE, October, 2020

Introducción a la atenuación por lluvia en sistemas de comunicaciones por satélite: casos prácticos con el satélite TKSat-1
Conference Series on Electronics and Telecommunications, Escuela Profesional de Ingeniería Electrónica y Telecomunicaciones UNTELS, Perú, July, 2020

Comunicaciones por satélite como soporte durante la crisis del COVID-19
Conference organized by UPB and Agencia Boliviana Espacial, July, 2020

RESEARCH
 POSITIONS AS
 VOLUNTEER

Horizon 2020 EU Program, BOLIVIA
National Contact Point of Marie Skłodowska-Curie Actions (MSCA) 2016 to 2020

RESEARCH STAGES
 AND FELLOWSHIPS

Short Term Postdoctoral Stage
Universidad Politécnica de Madrid
 Project: "Application of the ERA5 Climate Reanalysis to slant-path radiopropagation studies."

Period of duration: December, 2020 to February, 2021.
Financier: Fundación Carolina, SPAIN.

Master Research Stage

Universidad Politécnica de Madrid

Project: “Étude de propagation en communications par satellite en bande Ka”

Period of duration: March, 2006 to August, 2006.

Financier: Region Languedoc-Rousillon (France).

TRAINING
RECEIVED ON
RESEARCH
MANAGEMENT

Workshop for MSCA National Contact Points

Organized by the EU, the Ministry of Education and the ALCUENET Research Network, La Paz, October 31, 2017

Horizon2020 Info Day

Training Course organized by the EU, the Ministry of Education and the ALCUENET Research Network, La Paz, October 30, 2017

Net4Mobility Twining Sessions

Training Series for National Contact Points, organized by the EU, the Net4Mobility Project and the Ministerio de Ciencia, Tecnología e Innovación Productiva, Buenos Aires, Argentina, October 4 to 6, 2016

RESEARCH
ACTIVITY AS A
REVIEWER

Journals

- IEEE Transactions on Antennas and Propagation (Q1).
- IEEE Antennas and Wireless Propagation Letters (Q1).
- IEEE Geoscience and Remote Sensing Letters (Q1).

International conferences

- European Conference on Antennas and Propagation, EuCAP (various editions since 2015)

RESEARCH
AGREEMENTS AS
COORDINATOR

- Internet Society (2022 to present).
- Laboratorio Instrumentación Espacial LINX - Universidad Nacional Autónoma de México (2020 to present)
- Universidad Politécnica de Madrid (2017 to present).
- Agencia Boliviana Espacial (2017 to present)

TEACHING
EXPERIENCE

Universidad Privada Boliviana, Cochabamba, BOLIVIA

Undergraduate courses

2017 to present

- Satellite communications.
- Wireless communications.
- Applied Electromagnetics.
- Propagation applied to satellite communications.
- Telecommunications Theory.

	<i>Graduate courses</i>	2022
	<ul style="list-style-type: none"> • Satellite technology applied to telecommunications (MBA program). 	
	Universidad Mayor de San Simón, Cochabamba, BOLIVIA	
	<i>Graduate courses</i>	2018
	<ul style="list-style-type: none"> • Satellite Communication Systems (Diploma level). 	
	Universidad Mayor de San Andrés, La Paz, BOLIVIA	
	<i>Graduate courses</i>	2016
	<ul style="list-style-type: none"> • Satellite Communication: Ground Segment (Diploma level). • Atmospheric Propagation (Diploma level). • Research Methodologies (Master level). 	
RELEVANT TRAINING COURSES AS ORGANIZER	<p>LoRa technology for developing IoT solutions <i>25 hours training course. Organized by the Radiocommunications Laboratory, Cochabamba, April 22 to May, 20, 2023</i> Instructors: Eng. Cristian Salazar, PhD Gustavo Siles</p> <p>5G Systems and Technologies <i>10 hours international course in collaboration with Universidad Politécnica de Madrid, Cochabamba, June 17 to 19, 2019</i> Instructors: PhD. José Manuel Riera (UPM), PhD Gustavo Siles</p>	
MANAGEMENT AND ENGINEERING POSITIONS	<p>ABE, Bolivian Space Agency, La Paz, BOLIVIA <i>Project Coordinator</i> August, 2016 - March 2017</p> <p>Projects as coordinator:</p> <ul style="list-style-type: none"> • M-TGAS (Meteorological Transportable Ground Application System), donation from the Chinese Government. • Diploma Course on Satellite Communication Systems, First Edition, UMSA-ABE. <p><i>Ground Segment Engineer</i> July, 2015 - August, 2016</p> <p>Eductrade, S.A., Madrid, SPAIN and Quito, ECUADOR <i>Management Project Engineer</i> December, 2006 - December, 2008 Project: “Plan Amanecer” (Ecuador): In charge of the deployment of a VSAT network for satellite Internet access in secondary schools.</p> <p>Eductrade, S.A., Madrid, SPAIN <i>Project General Coordinator</i> October, 2003 - August, 2005 Project: “Equipamiento Educativo para Unidades Educativas Fiscales” (Bolivia). Budget: 1,500,000 USD.</p>	
AWARDS	<ul style="list-style-type: none"> • First Prize Winner. Science and Technology Plurinational Award. ICT Category. 2023. 	

Project: “Integral IoT project based on meteorological sensors and LoRa technology: Implementation, Evaluation and Training”

- First Prize Winner. Science and Technology Plurinational Award. ICT Category. 2019.

Project: “Attenuation effects at locations above 4000 meters of altitude caused by atmospheric gases and rain at Ka-band frequencies of the Tupac Katari satellite.”

RECOGNITIONS

- Elevation to **Senior Member IEEE**. *The highest professional grade of IEEE for which a member may apply. In recognition to extensive experience reflecting professional accomplishment and maturity..* 2022.
- Recognition from **IEEE ComSoc Bolivia**. *For supporting and guiding the activities of the ComSoc Chapter of the UPB-IEEE Student Branch..* 2018.

MEMBERSHIPS

Institute of Electrical and Electronics Engineers (IEEE)

- Senior member
- Antennas and Propagation Society.
- Communications Society
- Broadcast Technology Society
- Education Society

Internet Society (ISOC)

- Member.

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