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WORK EXPERIENCE

Professor and Research Personnel (FPI)-UPC

Universitat Politècnica De Catalunya UPC [01/09/2020 – Current]

City: Barcelona

Country: Spain

PhD (c) Researcher at gAGE/UPC, granted with the FPI-2019 scholarship from the Innovation and Universities Ministry of Spain, working on the project ESA-UPC project "Ionosphere for a High Accuracy Service (IONO4HAS)"

Research Support Personnel

Universitat Politècnica de Catalunya [15/11/2019 – 31/08/2020]

Address: Carrer de Jordi Girona 1-3, 08035 Barcelona (Spain)

City: Barcelona

Country: Spain

- **Business or sector:** Education

- Provide research activity support in the development of Ionospheric and Space Weather projects at the Group of Astronomy and GEomatics gAGE in UPC.

Professor and Research Personnel (FPI)-UPC

Universitat Politècnica de Catalunya UPC [01/09/2018 – 15/09/2019]

Address: Carrer de Jordi Girona 1-3, 08035 Barcelona (Spain) - www.gage.upc.es

City: Barcelona

Country: Spain

- **Business or sector:** Education

PhD (c) Researcher at gAGE/UPC, working on the project Warning and mitigation Technologies for Travelling Ionospheric Disturbance Effects (TechTIDE), EU Horizon 2020 Grant Agreement No 776011.



Higher education teaching professional

Colombian Civil Aviation Authority School Centre - CEA [01/02/2015 – 30/08/2018]

Address: Bogotá (Colombia)

City: Bogota

Country: Colombia

Lecturer at the Air Traffic Safety Electronics Personnel (ATSEP) teacher.

- Lectures:

Communication, Navigation, Surveillance, Meteorology and Energy related courses.

- Development:

Development, maintenance and coordination of Virtual Learning Environments (VLE) for ATSEP courses, including creation of the respective Virtual Learning Objects (VLO) contents.

College / university teaching professional

University Politécnico Grancolombiano [01/02/2018 – 30/06/2018]

Address: Bogota (Colombia)

City: Bogota

Country: Colombia

Aviation lecturer and researcher at the department of Management and Economics.

Lecture:

- National and international civil aviation regulation

College / university teaching professional

University Fundación Universitaria Los Libertadores [01/02/2016 – 14/01/2018]

Address: Bogota (Colombia)

City: Bogota

Country: Colombia

- Lectures:

Aeronautical electronics and electricity, satellite communication and navigation, surveillance, telecommunication, aeronautical meteorology, Air Traffic Management.

20 hours per week.

- Research:

Radiometry Laboratory at the Engineering Faculty.

In charge of solar radiation data measurements and analysis (UV indexes)

20 hours per week

Intern

Universitat Politècnica de Catalunya UPC [01/03/2014 – 01/09/2014]

Address: Barcelona (Spain)

City: Barcelona

Development of an orbit ephemeris monitor for GBAS Cat-I aircraft precision approach operations.

Developed at the research Group of Astronomy and Geomatics (gAGE/UPC) group, supervised by Dr. Jaume Sanz and Dr. Miguel Juan Sornoza.



University research assistant

University Fundación Universitaria Los Libertadores [01/06/2011 – 01/07/2012]

Address: Bogota (Colombia)

City: Bogota

Country: Colombia

Junior Research at the Radiometry Laboratory:

Design of an analytic model to compute diffuse radiation using as reference measurements registered with pyranometers with blocking shade

Administrative secretary

Colombian Civil Aviation Authority UAEAC [01/03/2009 – 01/09/2009]

Address: Bogota (Colombia)

City: Bogota

Country: Colombia

Undergraduate Internship developing the project titled "Technical Factibility to implement Multilateration system at Bogota's airport ElDorado", with the cooperation of the Colombian Civil Aviation Authority - UAEAC (Unidad Administrativa Especial de Aeronáutica Civil)

EDUCATION AND TRAINING

Phd (c) Aerospace Science and Technology

Universitat Politècnica de Catalunya UPC [11/09/2018 – Current]

Address: Barcelona (Spain)

PhD candidate working on Space Weather monitoring using GNSS systems.

Dessing, supply, installation and start up of service of systems and equipments for aeronautic surveillance (ATC simulator) for the ELDorado Airpoirt - Bogota, Colombia.

THALES ATM Training Institute [01/07/2015 – 01/09/2015]

Address: Bogota (Colombia)

MSc. GNSS

École Nationale de l'Aviation Civile ENAC [01/09/2012 – 01/09/2014]

Address: Toulouse (France)

Master's degree project: "Orbit ephemeris monitor for GBAS Cat-I aircraft precision approach operations", developed during the master's degree internship at Universitat Politècnica de Catalunya UPC, Barcelona, Spain.

Aeronautical Engineer

University Los Libertadores [01/02/2006 – 01/12/2010]

Address: Bogota (Colombia)

Final degree project: "Technical Factibility to implement Multilateration system at Bogota's airport ElDorado", in cooperation with the Colombian Civil Aviation Authority - UAEAC Unidad Administrativa Especial de Aeronáutica Civil.



LANGUAGE SKILLS

Mother tongue(s): **Spanish**

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B2 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

DIGITAL SKILLS

fortran / perl / bash / Photoshop / Linux / Git / HTML / Microsoft Office / CSS / C / PHP

PUBLICATIONS

Orbit ephemeris monitor for GBAS cat-I aircraft precision approach operations

[2014]

<https://upcommons.upc.edu/handle/2117/86331>

Report on the design and specifications of the TID algorithms and products

<https://upcommons.upc.edu/handle/2117/192017>

David Altadill, Anna Belehaki, Estefania Blanch, Dalia Buresova, Ivan Galkin, José Miguel Juan Zornoza, Jaume Sanz Subirana, Antoni Segarra, Cristhian Camilo Timote Bejarano

Confirming geomagnetic Sfe by means of a solar flare detector based on GNSS

[2019]

<https://doi.org/10.1051/swsc/2019040>

JJ Curto, JM Juan, CC Timoté

Statistical analysis of the results: assessment of the impact on aerospace and ground systems

[2019]

<https://upcommons.upc.edu/handle/2117/328753>

Cristhian Camilo Timote Bejarano, José Miguel Juan Zornoza, Jaume Sanz Subirana, Jens Tölle, Sergio Magdaleno, Joanna Rupiewicz, Jens Mielich

Report on the final TechTIDE products

[2019]

<https://upcommons.upc.edu/handle/2117/192487>

David Altadill, Anna Belehaki, Antoni Segarra, Estefania Blanch, Dalia Buresova, Tsagouri Ioanna, Claudia Borries, Ivan Galkin, Haris Haralambous, José Miguel Juan Zornoza, Jaume Sanz Subirana, Christina Oikonomou, Jaroslav Chum, Cristhian Camilo Timote Bejarano

Statistical analysis of the results: assessment of the impact on aerospace and ground systems

[2019]

<https://upcommons.upc.edu/handle/2117/328753>

Cristhian Camilo Timote Bejarano, José Miguel Juan Zornoza, Jaume Sanz Subirana, Jens Tölle, Sergio Magdaleno, Joanna Rupiewicz, Jens Mielich

Answer to the comments on “Confirming geomagnetic Sfe by means of a solar flare detector based on GNSS”

[2020]

<https://doi.org/10.1051/swsc/2020016>

Juan José Curto, Jose Miguel Juan, Cristhian Camilo Timoté



Impact of medium-scale traveling ionospheric disturbances on network real-time kinematic services: CATNET study case

[2020]

<https://doi.org/10.1051/swsc/2020030>

Cristhian Camilo Timoté, José Miguel Juan, Jaume Sanz, Guillermo González-Casado, Adrià Rovira-García, Miquel Escudero

An overview of methodologies for real-time detection, characterisation and tracking of traveling ionospheric disturbances developed in the TechTIDE project

[2020]

<https://doi.org/10.1051/swsc/2020043>

Anna Belehaki, Ioanna Tsagouri, David Altadill, Estefania Blanch, Claudia Borries, Dalia Buresova, Jaroslav Chum, Ivan Galkin, José Miguel Juan, Antoni Segarra, Cristhian Camilo Timoté, Kostas Tziotziou, Tobias GW Verhulst, Jurgen Watermann

Ionospheric corrections tailored to the Galileo High Accuracy Service

[2021]

<https://doi.org/10.1007/s00190-021-01581-x>

Adrià Rovira-Garcia, CC Timoté, JM Juan, J Sanz, Guillermo González-Casado, Ignacio Fernández-Hernández, Raul Orus-Perez, Daniel Blonski

CONFERENCES AND SEMINARS

Conferences

Quinto Congreso Internacional en Ciencia y Tecnología Aeroespacial

CICTA 2014 - Escuela de Inteligencia y Contrainteligencia BG. Ricardo Charry Solano, Universidad

Distrital Francisco Jose de Caldas

Orbit Ephemeris Monitor for GBAS Cat-I Aircraft Precision Approach Operations

Seminars

GNSS seminar (Coordinator)

March 2018

Unidad Administrativa Especial de Aeronáutica Civil de Colombia - UAEAC

NETWORKS AND MEMBERSHIPS

Memberships

World Space Week National Coordinator for Colombia (2017-2018)

PROJECTS

Projects

Warning and Mitigation Technologies for Travelling Ionospheric Disturbances Effects (TechTIDE), EU Horizon 2020 Grant Agreement No 776011.

Ionosphere for a High Accuracy Service (IONO4HAS), ESA Contract No. 4000128823/19/NL/AS

[01/11/2019 – Current]

To develop a prototype tool for Real-Time 3D ionosphere corrections tailored to high precision navigation applications

ORGANISATIONAL SKILLS

Organisational skills

Quality Management System ISO 9001: Foundation, Planning, Documentation, Measurement, Analysis, Improvement and Quality Internal Audit.



COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

CRM (Client Resource Management)

JOB-RELATED SKILLS

Job-related skills

Programming languages:

- C / C++
- Bash
- Perl

Teaching:

- Design and implementation of formation programs based on competencies.

COURSES

Courses

Spectroscopy techniques for measuring atmospheric pollution

February 2015

Colombian National University

Courses

ISO 9001:2008: Quality control Internal Audits

April 2011

SENA (Colombian Apprenticeship National Service)

Courses

ISO 9001:2008: Analysis and Improvement of a Quality Management System.

January 2011

SENA (Colombian Apprenticeship National Service)

Courses

ISO 9001:2008: Quality Management System Documentation

December 2010

SENA (Colombian Apprenticeship National Service)

Courses

ISO 9001:2008: Planning of a Management Quality System

November 2010

SENA (Colombian Apprenticeship National Service)



Courses

ISO 9001:2008: Quality Management System Foundations

October 2010

SENA (Colombian Apprenticeship National Service)

Courses

Corel Draw - Adobe Photoshop

May 2011

SENA (Colombian Apprenticeship National Service)

Courses

Web design Adobe Dreamweaver

July 2009

SENA (Colombian Apprenticeship National Service)