

PERSONAL INFORMATION

Adrià ROVIRA GARCIA

Sex Male | Date of birth 18/12/1986 | Nationality Spanish



Research Group of Astronomy and Geomatics ([gAGE](#))
Universitat Politècnica de Catalunya ([UPC](#))

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Scopus Author ID: [37057941100](#)

Researcher ID: [A-2827-2015](#)

Futur UPC: [2640567](#)

WORK EXPERIENCE

01/01/2020 – Present

Serra Hunter Lecturer

Universitat Politècnica de Catalunya

- Aerospace Section within the Department of Physics.

02/07/2018 – 01/07/2021

Marie Skłodowska-Curie Fellow

Universitat Politècnica de Catalunya / Joint Research Centre / Hanoi University of Science and Technology / Indra

- Project: [NAVSCIN](#) (02/07/2018-1/07/2021) - Funder: European Commission (185k€)
High Accuracy Navigation under Scintillation Conditions

01/01/2018 – 01/07/2018

Post-Doctoral Researcher

Universitat Politècnica de Catalunya

- Project: [TechTIDE](#) (1/11/2017-30/04/2020) - Funder: European Commission (194k€)
Warning and Mitigation Technologies for Travelling Ionospheric Disturbances Effects – TechTIDE

3/07/2017 – 31/12/2017

Visiting ScientistEuropean Space Research and Technology Centre ([ESTEC](#))

- Project: CAS17/00199 (1/07/2017 - 31/12/2017) - Funder: Spanish Ministry of Education, Culture and Sport (18k€). International secondments for young PhDs. Project title: "Design, Implementation and validation of algorithms for the Fast Precision Point Positioning (Fast-PPP) technique".

18/02/2016 – 2/07/2017

Post-Doctoral Researcher

Universitat Politècnica de Catalunya

- Project: [BELS](#) (01/06/2015-31/05/2018) - Funder: European GNSS Agency (210k€)
Building European Links Toward South-East Asia in the field of EGNSS
- Project: [E-KnoT](#) (01/01/2015-31/12/2017) - Funder: European GNSS Agency (114k€)
European GNSS Knowledge Triangle

18/02/2013 – 17/02/2016

Doctoral Student – Contract Based

Universitat Politècnica de Catalunya

- PhD Thesis: "Consolidation and Assessment of a technique to provide Fast and Precise Point Positioning ([Fast-PPP](#))"

A co-sponsored PhD between the European Space Agency ([ESA](#)) and the industrial partner [FUGRO NV](#), in a patented technique to provide High-Accuracy quickly. The research received 3 awards: from the US Institute of Navigation ([ION](#)), the European Geosciences Union ([EGU](#)) and the Doctoral School of Universitat Politècnica de Catalunya ([UPC](#))

27/09/2010 - 17/02/2013

Aerospace Engineer

Universitat Politècnica de Catalunya

- Project: **G-NAVIS** (15/03/2012-15/03/2015) – Customer: European GNSS Agency (130k€). Characterisation of the Ionospheric Conditions in the South East Asia (SEA) region to perform high-accuracy navigation, including feasibility studies and remote experiments.
- Project: **PROMETEO** (28/05/2010-09/01/2015) – Customer: Indra Company (460k€). Design, implementation and field-testing of a Ground Based Augmentation System (**GBAS**) station. A functional GBAS prototype for CAT-I was built and integrated within **Indra Company**.

30/01/2009 – 26/09/2010

Grant Holder

Universitat Politècnica de Catalunya

- Develop the advanced software-processing tool for GNSS data processing and analysis named “ESA/UPC GNSS-Laboratory tool suite (**gLAB**)”. It has become the ESA reference tool in navigation-related activities.

01/06/2008 – 11/09/2008

Grant Holder

Rutgers University, New Jersey, USA

- Grant Holder at the Fluids Mechanics Laboratory to carry out experiments of propulsion and manoeuvring systems using laser-based Particle Image Velocimetry (PIV) techniques.

EDUCATION AND TRAINING

2010-2016

PhD in Aerospace Science and Technology (60 ECTS)

Universitat Politècnica de Catalunya

2004-2010

Aerospace Engineering (305 ECTS)

Universitat Politècnica de Catalunya

PERSONAL SKILLS

Mother tongue(s) Catalan, Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Certificate in Advanced English (CAE)					
German	B1	B1	B1	B1	B1
Goethe-Zertifikat B1					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

[Common European Framework of Reference for Languages](#)

Communication skills

Good communication skills from professional experience

Organisational / managerial skills

Leadership (currently supervising a laboratory with a team of 5 people)

Job-related skills

Multi-tasking, Prioritization skills

Other skills

Capability to work in a multi-cultural environment

Driving licence

International B license

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Solid knowledge of several programming environments and languages: UNIX, C-shell environments, FORTRAN, C, OCTAVE/MATLAB. Good knowledge of Editing Software (LATEX/MS Office).				

ADDITIONAL INFORMATION

University Accreditations 04/11/2021 - Associate Professor for Regional (Catalonia) Universities
01/03/2017 - PhD Lecturer for Regional (Catalonia) Universities
24/01/2017 - Assistant PhD Lecturer for National (Spain) Universities

PUBLICATIONS

- Peer Reviewed Journals
1. Nie W, Wang Y, Rovira-Garcia A, Zheng D, Xu T (2022) "Effect of the polar cap ionospheric sporadic-E layer on GNSS-based positioning: a case study at Resolute Bay, Canada, September 5, 2012" *GPS Solutions* 26(1):60. [DOI 10.1007/s10291-022-01246-y](https://doi.org/10.1007/s10291-022-01246-y)
 2. Yu Y, González-Casado G, Rovira-Garcia A, Juan JM, Sanz J, Shao Y (2022) "Summer Nighttime Anomalies of Ionospheric Electron Content at Midlatitudes: Comparing Years of Low and High Solar Activities Using Observations and Tidal/Planetary Wave Features *Remote Sensing* 14(5):1237. [DOI 10.3390/rs14051237](https://doi.org/10.3390/rs14051237)
 3. Rovira-Garcia A, Juan JM, Sanz J, Gonzalez-Casado G, Ventura-Traveset J, Cacciapuoti L, Schoenemann E (2021) "A multi-frequency method to improve the long-term estimation of GNSS clock corrections and phase biases" *NAVIGATION, Journal of the Institute of Navigation* 68(4):815-828 [DOI: 10.1002/navi.453](https://doi.org/10.1002/navi.453)
 4. Rovira-Garcia A, Timoté CC, Juan JM, Sanz J, Gonzalez-Casado G, Fernández-Hernández I, Orus-Perez R, Blonski D (2021) "Ionospheric corrections tailored to the Galileo High Accuracy Service". *Journal of Geodesy* 95(12):130. [DOI 10.1007/s00190-021-01581-x](https://doi.org/10.1007/s00190-021-01581-x)
 5. Liu X, Ribot MA, Gusi-Amigó A, Rovira-Garcia A, Sanz J, Closas P (2021) "Cloud-Based Single-Frequency Snapshot RTK Positioning" *Sensors* 21(11):3688. [DOI 10.3390/s21113688](https://doi.org/10.3390/s21113688)
 6. Alonso MT, Ferigato C, Ibáñez-Segura D, Perrotta D, Rovira-Garcia A, Sordini E (2021) "Analysis of 'Pre-Fit' Datasets of gLAB by Robust Statistical Techniques" *Stats* 4(2):400-418. [DOI 10.3390/stats4020026](https://doi.org/10.3390/stats4020026)
 7. Rovira-Garcia A, Juan JM, Sanz J, Gonzalez-Casado G, Ventura, J, Cacciapuoti, L, Schoenemann, E (2021) "Removing day-boundary discontinuities on GNSS clock estimates: methodology and results". *GPS Solutions* 25, 35. [DOI 10.1007/s10291-021-01085-3](https://doi.org/10.1007/s10291-021-01085-3)
 8. Aragon-Angel A, Rovira-Garcia A, Arcediano-Garrido E, Ibáñez-Segura D (2021) "Galileo Ionospheric Correction Algorithm Integration into the Open-Source GNSS Laboratory Tool Suite (gLAB)". *Remote Sensing* 13(2):191. [DOI 10.3390/rs13020191](https://doi.org/10.3390/rs13020191)
 9. Alonso MT, Sanz J, Juan JM, Rovira-Garcia A, González-Casado G (2020) "Galileo Broadcast Ephemeris and Clock Errors Analysis: 1 January 2017 to 31 July 2020". *Sensors* 20(23), 6832. [DOI 10.3390/s20236832](https://doi.org/10.3390/s20236832)
 10. Rovira-Garcia A, Juan JM (2020) "Special Issue on GNSS Data Processing and Navigation". *Sensors* 20 (15), 4119. [DOI 10.3390/s20154119](https://doi.org/10.3390/s20154119)
 11. Timoté CC, Juan JM, Sanz J, González-Casado G, Rovira-García A, Escudero M (2020) "Impact of medium-scale traveling ionospheric disturbances on network real-time kinematic services: CATNET study case". *Journal of Space Weather Space Climate* 10(29). [DOI 10.1051/swsc/2020030](https://doi.org/10.1051/swsc/2020030)
 12. Li M, Nie W, Xu T, Rovira-Garcia A, Fang Z, Xu G (2020) "Helmert Variance Component Estimation for Multi-GNSS Relative Positioning". *Sensors* 20, 669. [DOI 10.3390/s20030669](https://doi.org/10.3390/s20030669)
 13. Ibáñez D, Rovira-Garcia A, Alonso MT, Sanz J, Juan JM, González-Casado G, Lopez-Martínez M, (2020) "EGNOS 1046 Maritime Service Assessment". *Sensors* 20, 276. [DOI 10.3390/s20010276](https://doi.org/10.3390/s20010276)
 14. Rovira-Garcia A, Ibáñez D, Orus Perez R, Juan JM, Sanz J, González-Casado G, (2020) "Assessing the quality of ionospheric models through GNSS positioning error: Methodology and Results". *GPS Solutions*, 24:4. [DOI 10.1007/s10291-019-0918-z](https://doi.org/10.1007/s10291-019-0918-z)
 15. Aragon-Angel A, Zürn M, Rovira-Garcia A (2019) "Galileo Ionospheric Correction Algorithm: An Optimization Study of NeQuick-G". *Radio Science* 54:1156-1169. [DOI 10.1029/2019RS006875](https://doi.org/10.1029/2019RS006875)
 16. Nguyen VK, Rovira-Garcia A, Juan JM, Sanz J, González-Casado G, La-The V, Tung TH (2019) "Measuring phase scintillation at different frequencies with conventional GNSS receivers operating at 1 Hz". *Journal of Geodesy* 93(10):1985-2001. [DOI 10.1007/s00190-019-01297-z](https://doi.org/10.1007/s00190-019-01297-z)
 17. Shao Y, González-Casado G, Juan JM, Sanz J, Rovira-Garcia A (2018) "Improvement of the ionospheric radio

occultation retrievals by means of accurate global ionospheric maps". *Journal of Geophysical Research: Space Physics* 123(10):10331-10, 344. [DOI 10.1029/2018JA025836](https://doi.org/10.1029/2018JA025836)

18. Wenfeng N, Tianhe X, Rovira-Garcia A, Juan JM, Sanz J, González-Casado G, Wu C, Guochang X (2018) "Revisit the calibration errors on experimental slant total electron content (TEC) determined with GPS". *GPS Solutions* 22(85). [DOI 10.1007/s10291-018-0753-7](https://doi.org/10.1007/s10291-018-0753-7)
 19. Juan JM, Sanz J, Rovira-Garcia A, González-Casado G, Ibáñez-Segura D, Orus R (2018) "AATR an Ionospheric Activity Indicator Specifically based on GNSS Measurements". *Journal of Space Weather Space Climate* 8:A14, pp 1-11. [DOI 10.1051/swsc/2017044](https://doi.org/10.1051/swsc/2017044)
 20. Juan JM, Sanz J, González-Casado G, Rovira-Garcia A, Camps A, Riba J, Barbosa J, Blanch E, Altadill D, Orus R (2018) "Feasibility of precise navigation in high and low latitude regions under scintillation conditions". *Journal of Space Weather Space Climate* 8:A05, pp1-11. [DOI 10.1051/swsc/2017047](https://doi.org/10.1051/swsc/2017047)
 21. Wenfeng N, Tianhe X, Rovira-Garcia A, Juan JM, Sanz J, González-Casado G, Wu C, Guochang X (2018). "The Impacts of the Ionospheric Observable and Mathematical Model on the Global Ionosphere Model". *Remote Sensing* 10(2):169. pp1-13. [DOI 10.3390/rs10020169](https://doi.org/10.3390/rs10020169)
 22. Juan JM, Aragon-Angel, A, Sanz J, González-Casado G, Rovira-Garcia A (2017). "A method for scintillation characterization using geodetic receivers operating at 1 Hz". *Journal of Geodesy* 91(11):1383-1397. [DOI 10.1007/s00190-017-1031-0](https://doi.org/10.1007/s00190-017-1031-0)
 23. Sanz J, Juan JM, Rovira-Garcia A, González-Casado G (2017). "GPS differential code biases determination: methodology and analysis". *GPS Solutions* 21(4):1549-1561. [DOI 10.1007/s10291-017-0634-5](https://doi.org/10.1007/s10291-017-0634-5)
 24. Rovira-Garcia A, Juan JM, Sanz, J, González-Casado G, Bertrán E (2016). "Fast Precise Point Positioning: A System to Provide Corrections for Single and Multi-frequency Navigation". *Journal of the Institute of Navigation* 63(3):231-247. [DOI 10.1002/navi.148](https://doi.org/10.1002/navi.148).
 25. Rovira-Garcia A, Juan JM, Sanz J, González-Casado G, D Ibáñez-Segura (2016). "Accuracy of ionospheric models used in GNSS and SBAS: methodology and analysis". *Journal of Geodesy* 90(3):229-240. [DOI 10.1007/s00190-015-0868-3](https://doi.org/10.1007/s00190-015-0868-3)
 26. Rovira-Garcia A, Juan JM, Sanz, J, Gonzalez-Casado G (2015) "A Worldwide Ionospheric Model for Fast Precise Point Positioning". *IEEE Transactions on Geoscience and Remote Sensing* 53(8):4596-4604. [DOI 10.1109/TGRS.2015.2402598](https://doi.org/10.1109/TGRS.2015.2402598)
 27. González-Casado G, Juan JM, Sanz J, Rovira-Garcia A, Aragon-Angel A (2015). "Ionospheric and plasmaspheric electron contents inferred from radio occultations and global ionospheric maps". *Journal of Geophysical Research Space Physics*, 120(7):5983-5997. [DOI 10.1002/2014JA020807](https://doi.org/10.1002/2014JA020807)
- Top Ten Presentations**
1. Rovira-Garcia A, González-Casado G, Juan JM, Sanz J, Orús R (2020) "Climatology of High and Low Latitude Scintillation in the Last Solar Cycle by Means of the Geodetic Detrending Technique". *Proceedings of the 2020 International Technical Meeting of The Institute of Navigation*. San Diego, California, 21-24 January 2020, pp 920-933. [DOI 10.33012/2020.17187](https://doi.org/10.33012/2020.17187).
 2. Juan JM, Sanz J, Rovira-Garcia A, González-Casado G, Ventura-Traveset J, Cacciapuoti L, Schoenemann E (2020) "A New Approach to Improve Satellite Clock Estimates, Removing the Inter-day Jumps". *Proceedings of the 51st Annual Precise Time and Time Interval Systems and Applications Meeting*. San Diego, California, 21-24 January 2020, pp. 279-301. [DOI 10.33012/2020.17306](https://doi.org/10.33012/2020.17306).
 3. Ibáñez-Segura D, Rovira-García A, Sanz J, Juan JM, González-Casado G, Alonso MT, López Salcedo JA, Jia H, Pancorbo-García FJ, Garcia-Daroca C, Martin-Calle I, Abadía-Heredia SR, López-Martínez M (2019) "A kinematic campaign to evaluate EGNOS 1046 Maritime Service" (ION GNSS+ 2019). Miami, Florida, 16-20 September 2019, pp. 840-854. [DOI 10.33012/2019.16941](https://doi.org/10.33012/2019.16941)
 4. Rovira-Garcia A, Juan JM, Sanz J, González-Casado G, Escudero M (2019) "The NAVSCIN Project: Towards High-Accuracy Navigation under Scintillation". *Proceedings of the International Federation of Surveyors (FIG) Working Week 2019 Geospatial information for a smarter life and environmental resilience*. Hanoi, Vietnam, 22-26 April 2019. https://www.fig.net/resources/proceedings/fig_proceedings/fig2019/papers/ts05e/TS05E_rovira-garcia_juan_et_al_9928.pdf
 5. Sanz J, Juan de Echazarreta JM, López C, González-Casado G, Rovira-García A, Alonso Alonso MT, Ibáñez D (2018) "Automated GPS Signal-in-Space Anomalies Monitoring Over More than 11 Years". *Proceedings of the 31st International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2018)*. Miami,

Florida, 24-28 September 2018, pp. 2172-2185. [DOI 10.33012/2018.15853](https://doi.org/10.33012/2018.15853)

6. Rovira-Garcia A, Juan M, Sanz J, González-Casado G, Ibáñez Segura D, Romero-Sánchez J (2015) "Assessment of Ionospheric Models for GNSS During a Year of Solar Maximum". Proceedings of the 28th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GNSS+ 2015), Tampa, Florida, 14-18 September 2015, pp. 3833-3840. <https://www.ion.org/publications/abstract.cfm?articleID=13088>
7. González-Casado G, Juan JM, Sanz, J, Rovira-Garcia A, Aragon-Angel A (2015) "Ionospheric and Plasmaspheric contribution to the Total Electron Content Inferred from Ground Data and Radio-Occultation-Derived Electron Density". Proceedings of the 28th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GNSS+ 2015). Tampa, Florida, 14-18 September 2015, pp. 3459-3468. <https://www.ion.org/publications/abstract.cfm?articleID=13105>
8. Rovira-Garcia A, Juan JM, Sanz J (2014) "A Real-time World-wide Ionospheric Model for Single and Multi-frequency Precise Navigation". Proceedings of the 27th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GNSS+ 2014). Tampa, Florida, 8-12 September 2014, pp. 2533-2543. <http://www.ion.org/publications/abstract.cfm?jp=p&articleID=12446>
9. Rovira-Garcia A, Hernández-Pajares M, Juan M, Sanz J (2012) "Fast Precise Point Positioning performance based on International GNSS Real-Time Service data". Proceedings of the 6th ESA Workshop on Satellite Navigation Technologies (NAVITEC 2012), Noordwijk, The Netherlands, 5-7 December 2012, pp. 1-5. [DOI 10.1109/NAVITEC.2012.6423100](https://doi.org/10.1109/NAVITEC.2012.6423100)
10. Hernández-Pajares M, Juan M, Sanz J, Ramos-Bosch P, Rovira-Garcia A, Salazar D, Ventura-Traveset J, López-Echazarreta C, Hein G (2010) "The ESA/UPC GNSS-Lab Tool (gLAB): An advanced multipurpose package for GNSS data processing". Proceedings of the 5th ESA Workshop on Satellite Navigation Technologies (NAVITEC 2010), Noordwijk, The Netherlands, 8-10 December 2010. [DOI 10.1109/NAVITEC.2010.5708032](https://doi.org/10.1109/NAVITEC.2010.5708032)

Invited Talks

Fast-PPP and the relevance of accurate Ionospheric modelling, TREASURE Final Conference, October 21, 2020

The Geodetic Detrending Technique: Enabling High-Accuracy Navigation Under Scintillation, 2020 IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE) - Space Weather (SW), October 12, 2020.

Assessment of Ionospheric Models Tailored for Navigation. SBAS Ionospheric Working Group Meeting 22, The Abdus Salam International Centre for Theoretical Physics, Trieste (Italy). March 6, 2015.

Book Chapters

Session 2.2. GNSS standard file formats. pp. 39-52. In: GNSS Data Processing Fundamentals, Algorithms and Laboratory Exercises ([ESA TM-23](#)). Editorial: European Space Agency Communications, 05/2013. ISBN 978-92-9221-886-7

Session A.1. Examples of GNSS Elemental Routines, pp. 265-291. In: GNSS Data Processing Fundamentals, Algorithms and Laboratory Exercises ([ESA TM-23](#)). Editorial: European Space Agency Communications, 05/2013. ISBN 978-92-9221-886-7

Projects

Name: [IONO4HAS](#) (25.11.2019-14.11.2023) – European Space Agency (350k€).

Objective: Development of the two layer ionospheric model and its associate correction message to be broadcast as part of the High Accuracy Service (HAS) of the European Galileo satellites.

Name: [GIC-BR](#) (23.10.2019-22.10.2022) – European Commission (60k€).

Objective: To support the Galileo Information Centre (GIC) in Brasil. Organization of training activities such as Summer School in GNSS and Professional Trainings.

Name: [BELS](#) (01.06.2015-31.05.2018) – European GNSS Agency (210k€)

Objective: To Build European Links Toward South-East Asia in the field of EGNSS, focusing on the research of the ionospheric conditions on the equatorial region.

Name: [E-KnoT](#) (01.01.2015-31.12.2017) – European GNSS Agency (114k€)

Objective: To participate in the European GNSS Knowledge Triangle. As a University on the field of GNSS, organization of Professional Trainings around Europe.

Name: [G-NAVIS](#) (15.03.2012-15.03.2015) – European GNSS Agency (130k€).

Objective: Study the Ionospheric Conditions in the South East Asia Region (SEA), perform feasibility studies and field experiment of the Fast-PPP technique.

Name: [PROMETEO](#) (28.5.2010-09.01.2015) – Indra Company (460k€).

Objective: A functional prototype of a deployable Ground Based Augmentation System ([GBAS](#)) station was

designed, built and integrated with Indra Company.

Name: [EDUNAV](#) (30.01.2009-04.10.2010) – European Space Agency (40k€).

Objective: Develop the advanced software processing tool for GNSS data processing and analysis named “ESA/UPC GNSS-Lab Tool ([gLAB](#))”. It has become the ESA reference tool.

Teaching Experience

Master of Science in Aerospace Engineering ([UPC](#)) in 2016, 2017, 2020 and 2021.

Bachelor of Aerospace Engineering ([UPC](#)) in 2018, 2020 and 2021.

Maestría en Ciencias en Ingeniería de Telecomunicaciones ([IPN](#)), 2017.

Master of Science of the Institut Supérieur de l'Aéronautique et de l'Espace ([ISAE](#)) 2016 to 2018.

Master of Telecommunication Engineering of the Universitat Ramón Llull ([La Salle](#)) in 2016.

Master of Science of the École Nationale de l'Aviation Civile ([ENAC](#)) 2013 to 2018.

European Space Agency International Summer School on GNSS years 2012 (Toulouse), 2013 (Davos), 2014 (Ostrava), 2015 (Barcelona), 2016 (Ispra).

Research Supervision

Six master dissertations, two pre-Bologna end of engineering degree project, two double-degree Bologna end of bachelor project, one Bologna end of bachelor project.

Honours and awards

Name of the award: Telespazio Technology Contest (TEC) – December 2020

Institution: Telespazio

Reference: the innovative idea: “Implementation of a software receiver to provide real-time precise positioning based on the developing Galileo high accuracy service (HAS)”

URL: <https://www.telespazio.com/en/news-and-stories-detail/-/detail/ttec2020-awards>

Name of the award: Special Doctoral Award – October 2018

Institution: Doctoral School of the Universitat Politècnica de Catalunya

Reference: Academic Year of the PhD defence: 2015-2016

URL: https://doctorat.upc.edu/ca/tesi/premis-extraordinaris/carpeta-2018/llista_definitiva_guanyadors_pe-2018_cp_02_10_2018.docx

Name of the award: Best Presentation Award ([BPA](#)) – September 2014

Institution: Institute of Navigation

Congress: 27th International Technical Meeting of The Satellite Division of the Institute of Navigation ([ION GNSS+ 2014](#))

Reference: Rovira-Garcia A, Juan M, Sanz J (2014) “A Real-time World-wide Ionospheric Model for Single and Multi-frequency Precise Navigation”. Proceedings of ION GNSS+ 2014, Tampa, Florida(USA), pp 2533–2543

URL: <http://www.ion.org/publications/abstract.cfm?jp=p&articleID=12446>

Name of the award: Outstanding Student Poster ([OSP](#)) Awards – May 2014

Institution: European Geosciences Union, Geodesy Division

Congress: EGU General Assembly 2014

Reference: Rovira-Garcia A, Juan M, Sanz J (2014) “Fast-PPP assessment in European and equatorial region near the solar cycle maximum”. Proceedings of the European Geosciences Union General Assembly 2014: Geophysical Research Abstracts Vol. 16, Vienna, Austria,

URL: https://static2.egu.eu/media/awards/union-osp-award/2014/adria_rovira-garcia.pdf

Memberships

Academic Commission of PhD Program in Aerospace Science and Technology (DOCTA) since 4th November 2021

Associate editor of IEEE Transactions on Geoscience and Remote Sensing (IEEE TGARS) since 1st June 2020.

Chairman of Session B2: Precise GNSS Positioning in the 2020 International Technical Meeting of the US Institute of Navigation organised in San Diego, California (USA) from 21st to 24th January 2020.

Guest editor of Sensors Journal in Special Issue GNSS Data Processing and Navigation from June 2019 to June 2020.

Chairman of Session A4: GNSS Remote Sensing, Atmospheric Science and Space Applications in the 2019 International Technical Meeting of The US Institute of Navigation in Reston, Virginia (USA) from 28th to 31st January 2019.

External Reviewer of project [Field Aware Navigation and Timing Authentication Sensor for Timing Infrastructure and Centimeter level positioning \(FANTASTIC\)](#) funded by the European GNSS Agency (GSA) under the European Union's Fundamental Elements research and development programme under grant agreement No. GSA/GRANT/01/2016. From 12th March 2018 to 14th October 2019.

Member of the group “Ionosphere Predictions” International Association of Geodesy ([IAG](#)) Commission 4. Positioning and Applications, Sub-commission 4.3 Remote Sensing and Modelling of the Atmosphere since July 2017.

Attended Courses

Training title: JRC Summer School on GNSS Core Technologies
Awarding entity: Joint Research Centre – European Commission
City awarding entity: Ispra, Italy
Type of entity: R&D Centre
End date: 04/07/2012
Type of training: Course
Duration: 3 days

Training title: ESA Summer School on GNSS
Awarding entity: European Space Agency
City awarding entity: Berchtesgaden, Germany
End date: 30/07/2011
Type of entity: R&D Centre
Duration: 11 days

Research Stages

Centre: Hanoi University of Science and Technology (HUST)
Type of entity: University
City of entity: Hanoi, Vietnam
Start date: 02/11/2018
Duration: 14 months
Purpose: Postdoctoral
Tasks: Within the outgoing phase of the Marie Skłodowska-Curie Action NAVSCIN, perform remote-sensing experiments on the field of a low-latitude region to study and mitigate scintillation phenomena

Centre: Joint Research Centre (JRC) of the European Commission (EC)
Type of entity: R&D Centre
City of entity: Ispra, Italy
Start date: 02/07/2018
Duration: 4 months
Purpose: Postdoctoral
Tasks: Within the outgoing phase of the Marie Skłodowska-Curie Action NAVSCIN, learn experimental usage of ISMR equipment, radiofrequency instruments and remote sensing techniques

Centre: European Space Research and Technology Centre (ESA-ESTEC)
Type of entity: R&D Centre
City of entity: Noordwijk, The Netherlands
Start date: 01/07/2017
Duration: 6 months
Purpose: Postdoctoral
Tasks: Design, Implementation and validation of algorithms for the Fast Precise Point Positioning (Fast-PPP) technique with signals E6 and E5-AltBoc, and additionally, with mass-market receivers with the L1 signal.

Centre: European Space Research and Technology Centre (ESA-ESTEC)
Type of entity: R&D Centre
City of entity: Noordwijk, The Netherlands
Start date: 01/06/2015
Duration: 2 months
Purpose: Predoctoral
Tasks: Implementation of the un-differenced ambiguity fixing capability on the Fast Precise Point Positioning Technique user receiver, mass-market receiver mobile test campaigns.

Centre: European Space Research and Technology Centre (ESA-ESTEC)
Type of entity: R&D Centre
City of entity: Noordwijk, The Netherlands
Start date: 02/06/2014
Duration: 2 months
Purpose: Predoctoral
Tasks: Expansion of the Fast Precise Point Positioning (Fast-PPP) technique to equatorial latitudes on a daily basis.

Centre: European Space Research and Technology Centre (ESA-ESTEC)
City of entity: Noordwijk, The Netherlands
Start date: 10/06/2013
Duration: 2 months
Purpose: Predoctoral
Tasks: Multi-constellation implementation in an Enhanced Precise Point Positioning (EPPP) software receiver taking benefit of receivers and data available in ESA/ESTEC laboratories.

