

## CURRICULUM VITAE ABREVIADO (CVA)

**IMPORTANT** – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

### Part A. PERSONAL INFORMATION

First name	Antonio José		
Family name	Gil		
Gender (*)	Male	Birth date (dd/mm/yyyy)	24/08/1962
Social Security, Passport, ID number			
e-mail	ajgil@ujaen.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)		0000-0003-0351-4106	

(\*) Mandatory

#### A.1. Current position

Position	Full Professor of Geodesy		
Initial date	15/03/2002		
Institution	Universidad de Jaén		
Department/Center	Ingeniería Cartográfica, Geodésica y Fotogrametría.	Escuela Politécnica Superior de Jaén	
Country	Spain	Teleph. number	+34 953 212467
Key words	Geodesy, GNSS, GPS-RTK, Geomatics, Earth's crustal deformations		

#### A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause

#### A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Degree in Mathematics	Universidad Complutense de Madrid (Spain)	1985
PhD in Mathematics	Universidad Complutense de Madrid (Spain)	1992

### Part B. CV SUMMARY (max. 5000 characters, including spaces)

Degree of Doctor from the Complutense University of Madrid in 1992. Since March 2002 I have been a full Professor in the area of Cartographic Engineering, Geodesy and Photogrammetry at the University of Jaén. I am the Head of the RNM282 Research Group, which was recognized in the Andalusian Research Plan by the Regional Government of Andalusia since its creation in 1997. My main scientific interests are: geodetic monitoring of Earth's crust deformation, Engineering Geodesy and GNSS. I have extensive experience in GNSS instrumentation and I have carried out countless high-precision GPS surveys for the monitoring of geological and Civil Engineering structures. I have participated in a total of 31 Research Projects financed by Public Institutions in competitive calls, being in 7 of them the Principal Investigator. I have been supervisor of 7 doctoral theses, tutor of several FPD, FPI, FPU grants, and member of doctoral thesis boards at the University of Valencia, University of Cantabria, University of Córdoba, University of Vigo, University of Barcelona, University Complutense of Madrid, among others. I have reviewed proposal of research projects for AEI, ACUCYL, MIUR - Ministero dell'Istruzione, dell'Università e della Ricerca (Italy), Australian Research Council (Australia); an external reviewer for doctoral theses at the Universidad Politécnica de Valencia and the Politécnico de Milán (Italy) and as a reviewer of scientific articles for JCR journals: Computers&Geosciences, J of Geodesy, Geophysical Journal International, Sensors and others such as: Newton's Bulletin, Bulletin of Geodesy



and Geomatics, EGEOL, Geoacta, etc. I am also a member of the Editorial Board of the Electronic Journal of Polish Agricultural University. I have participated in the management committee of the “Center for Advanced Studies in Earth Sciences (UJA)” for 4 years. I was Chairman of the Organizing Committee of the IAG International Symposium on Geodetic Deformation Monitoring (ISGDM2005) held at the University of Jaén in 2005. I have given several training courses for the company SACYR and the COITT-Official College of Technical Engineers in Topography, etc. I have been advisor and responsible for several contracts with private and public companies such as GALILEO JOINT UNDERTAKING (ESA – EC), SIGEO, Empresa Pública para el Desarrollo Agrario y Pesquero de Andalucía S.A , Consejería de Obras Públicas y Transporte de la Junta de Andalucía, Obrascón – Huarte – Lain, Cueva de Nerja. I have been a guest lecturer at national and international centers: Faculty of Engineering Campus of Como, Milan's Department of Hydraulic, Environmental and Renewable Energy Engineering, Milan's Institute of Topography and Geophysics and the Department of Geographic Engineering and Graphic Expression Techniques at the University of Cantabria. I am a member of the Ibero-American Network of Geodetic Engineering since its creation in 2019. I was the President of two Qualification Commissions in the Cartographic Engineering, Geodesy and Photogrammetry Area and a Member of a Qualification Commission in the Graphic Engineering Area. I participated as a member of the commission for the public selection of academic personnel at Politecnico di Milano (Italy) (2018). I have been a member of Commission C13 - Architecture, Civil Engineering, Construction and Urbanism of ANECA for 3 years. I have been President of the Jury of the Francisco Coello International Award in several editions. Since 2000, I have been the Promoter and Coordinator of the Socrates-Erasmus Programme with several institutions: Politecnico di Milano, University of Rome, University of Lisbon and Wroclaw University.

In 2019, together with colleagues from the Cartographic, Geodetic and Photogrammetric Engineering department, I was given the “Scientific Dissemination Award” from the University of Jaén for the work of scientific dissemination of Geomatics Engineering aimed at all pre-university training cycles, as well as Society in general.

I have authored more than two hundred scientific contributions. I have been awarded **5 six-year periods with positive research evaluation** recognized by the National Commission for the Evaluation of Research Activity CNEAI (Secretary of State for Universities and Research) and **1 six-year period with positive technology transfer evaluation**.

## Part C. RELEVANT MERITS (sorted by typology)

### C.1. Publications

- Asier Madarieta-Txurruka, Lourdes González-Castillo, José A. Peláez, Manuel Catalán, Jesús Henares, Antonio J. Gil, and Jesús Galindo-Zaldívar (2022). The Role of Faults as Barriers in Confined Seismic Sequences: 2021 Seismicity in the Granada Basin (Betic Cordillera). *Tectonics*, 41 (9). <https://doi.org/10.1029/2022TC007481>. **Q1** “Geochemistry & Geophysics”
- Madarieta-Txurruka et al (9/9) (2021). High- and Low-Angle Normal Fault Activity in a Collisional Orogen: The Northeastern Granada Basin (Betic Cordillera). *Tectonics*, 40, DOI: 10.1029/2021TC006715. **Q1** “Geochemistry & Geophysics”
- Borque et al (13/13) (2019). How much Nubia-Eurasia convergence is accommodated by the NE end of the Eastern Betic Shear Zone (SE Spain)? Constraints from GPS velocities. *Tectonics*, 38, 1824-1839, DOI: 10.1029/2018TC004970. **Q1** “Geochemistry & Geophysics”.
- Garrido-Carretero et al (6/6), (2019). Low-cost GNSS receiver in RTK positioning under the standard ISO-17123-8: A feasible option in geomatics. *Measurement*, DOI 10.1016/j.measurement, 137, 168-178. **Q1** “Engineering Multidisciplinary”
- Galindo-Zaldívar et al (17/17) (2018). Imaging the Growth of Recent Faults: The Case of 2016–2017 Seismic Sequence Sea Bottom Deformation in the Alboran Sea (Western Mediterranean). *Tectonics*, 37 (8), 2513-2530. **JIF (JCR): 3.975 (14/84) Q1** “Geochemistry & Geophysics”

- Acosta et al (7/7) (2018), Displacements Study of an Earth Fill Dam Based on High Precision Geodetic Monitoring and Numerical Modeling. *Sensors*, 18, 1369. DOI: 10.3390/s18051369. **IF (JCR) 2018: 3.031 (15/61) Q1** "Instruments & Instrumentation".
- Gárate, J., J. Martín-Dávila, G. Khazaradze, A. Echeverría, E. Asensio, **A.J. Gil**, M.C. de Lacy, J.A. Armenteros, A.M. Ruiz, J. Gallastegui, F. Alvarez-Lobato, C. Ayala, G. Rodríguez-Caderot, J. Galindo-Zaldívar, A. Rimi, M. Harnafi (2015). Topo-Iberia project: CGPS crustal velocity field in the Iberian Peninsula and Morocco. *GPS Solutions*, 19 (2), 287-295. **IF (JCR): 2,991, Q1** "Remote Sensing".
- Garrido, M. S., Giménez, E., Ramos, M. I., and **Gil, A.J.** (2013). A high spatio-temporal methodology for monitoring dunes morphology based on precise GPS-NRTK profiles: Test-case of Dune of Mónsul on the south-east Spanish coastline. *Aeolian Research*, 8, 75- 84. **IF (JCR): 2.841(11/46) Q1**.
- Garrido, M. S., Giménez, E., de Lacy, M. C., and **Gil, A.J.** (2013). Quality Analysis of NRTK Positioning on Boundary Regions and Under Unfavorable Topographic Conditions in the Southern Iberian Peninsula. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 6, 2364 - 2374. **IF (JCR): 2.827 (5/27) Q1**.
- Garrido, M. S., Giménez, E., de Lacy, M. C., and **Gil, A.J.** (2013). Dense Regional Active Networks and High Accuracy Positioning Services. A Case Study Based on the Andalusian Positioning Network (Southern Spain). *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 6, 2421-2433. **IF (JCR): 2.827 (5/27) Q1**.

## C.2. Congress

- Galindo-Zaldívar, J.; Gil A.J.; Azzouz, O.; Ercilla, G.; Sánchez-Alzola, A.; Peláez, J.A.; Ruiz-Armenteros, A.M.; Ruano, P.,; Lacy-Pérez De Los Cobos, M.C.; Makkaoui, M.; Estrada, F. Active deformations related to blind faults in Al Hoceima area from GNSS observations (Rif Cordillera, Westernmost Mediterranean). *MedGU Mediterranean Geosciences Unión, annual meeting*, Marrakech, 27-30 Nov 2022. Oral Communication.
- Galindo-Zaldívar, J., A.J. Gil, V. Tendero, M.J. Borque, G. Ercilla, L. González-Castillo, A; Sánchez-Alzola, M.C. Lacy, F. Estrada, M. Avilés, P. Alfaro, A Madarieta-Txurruka y F. Chacón. Actividad de pliegues y fallas en el campo de Dalías a partir de redes. *Iberfault 2022, IV Reunión Ibérica sobre Fallas Activas y Paleosismología*, Teruel (Spain) Sept 2022. Comunicación Oral.
- Gil A.J., A. Sánchez-Alzola, J. Galindo-Zaldívar, M.J. Borque, M.C. Lacy, M. Aviles, P. Alfaro, A.C. López Garrido, C. Sanz de Galdeano, A. Herrera, F. Chacón, M. Madrigal, S. Blanca, J.C. Moreno, V. Shopkeeper. Estimation of the crustal velocity field in the Balanegra fault from GPS position time series in 2006 – 2018. *International Conference on Time Series and Forecasting*. Proceedings of Papers 25-27 ISBN: 978-84-17970-78-9 Granada (Spain) 2019. Póster.
- Reguzzoni M., G. Venuti, M. C. de Lacy, D. Carrion, R. Barzaghi, M. J. Borque, A. J. Gil, P. A. Vaquero. The Use of GNSS/Levelling and Gravity Data for the Spanish Height System Unification. *Gravity, Geoid and Height Systems 2016 (GGHS2016)*. International Association of Geodesy Symposia. 1-7, 2017. Springer, Berlin, Heidelberg. Springer International Publishing AG 2017. Tesalónica 19-23/09/2016. Oral communication.
- Sánchez-Alzola A., M.J. Borque, A.J. Gil. *Monument stability analysis in continuous GNSS stations from position time series*. International Work-Conference on time series (ITISE 2015). Granada, 1-3 Julio de 2015. Póster.

## C.3. Research projects

- 2020/00058/001-1263446. "Integración y chequeo del nuevo sistema europeo por satélites GALILEO en la monitorización geodésica de regiones tectónicamente activas con incidencia principal en el sistema Bético-Rifeño", "Antonio J. Gil (Universidad de Jaén)" CONSEJERÍA DE ECONOMÍA Y CONOCIMIENTO-FEDER, 01/01/2020 - 31/08/2022. **71.709,14 €**. Concedido. Tipo de participación: **Principal investigator**.
- ESP2017-89344-R. "Monitorización remota de infraestructuras hidráulicas mediante interferometría radar de satélite". "Antonio M. Ruiz (UJA)", Ministerio de Economía,

- Industria y Competitividad. 01/01/2018 - 1/12/2020. **45.000** €. Concedido. Tipo de participación: **Investigator**.
- CGL2016-80687-R. "Deformación activa y reciente a través del sector central de las cordilleras Bético-Rifeñas y mar de Alborán: factores de riesgo geológico". "Jesús Galindo Zaldívar (UGR)", MINECO, 30/12/2016 - 29/12/2019. **220.000** €. Concedido. Tipo de participación: **Investigator**.
- AYA2010-15501(ESP). "Aplicación de la Interferometría Radar de Satélite y los Sistemas Globales de Navegación por Satélites en Estudios sobre Control de Deformaciones de la Cordillera Bética.", "Antonio J. Gil (Universidad de Jaén)", MICINN, 01/2011-12/2015. **181.500** €. Concedido. Tipo de participación: **Principal investigator**.
- RNM-5388. "Estructuras Tectónicas Activas en la Cordillera Bético-rifeña: Contraste del Comportamiento de Zonas Internas y Externas y su Incidencia en la Peligrosidad Geológica", "Jesús Galindo Zaldívar (Universidad de Granada)", Junta de Andalucía, 03/2011-12/2014. **153.244** €. Concedido. Tipo de participación: **Investigator**.
- CONSOLIDER-CSD2006-00041. "Geociencias en Iberia: Estudios Integrados de Topografía y Evolución 4D (Topo-Iberia)", "J. Gallart (Instituto Jaume Almera (CSIC))", MEC, 10/2006-09/2013. **4.500.000** €. Concedido. Tipo de participación: **Responsible Researcher at the University of Jaén**.
- AYA2009-10209(ESP). "Aplicación de la interferometría radar de satélite (InSAR y PSInSAR) y los sistemas globales de navegación por satélites (GNSS) en estudios de dinámica litoral en el Sur y Este de la Península Ibérica", "Antonio J. Gil (Universidad de Jaén)", MICINN, 01/2010-12/2010. **36.300** €. Concedido. Tipo de participación: **Principal investigator**.
- CGL2008-05155-E/BTE. "Cuantificación de la deformación actual en la Cordillera Bética mediante una nueva observación GPS de la Red Peninsular de Orden Cero (IBERIA95) en su sector más meridional". "Antonio J. Gil (Universidad de Jaén)", MICINN, 04/06/2009 - 03/10/2010. **15.000** €. Concedido. Tipo de participación: **Principal investigator**.
- ESP2006-10113. "Servicios de posicionamiento y navegación basados en redes de estaciones permanentes GNSS con aplicaciones en tiempo real (RTK)", "Antonio J. Gil (Universidad de Jaén)", MEC, 01/2006-12/2009. **47.610** €. Concedido. Tipo de participación: **Principal investigator**.
- Ref. 00327. "Cuantificación de procesos tectónicos de convergencia, escape y levantamiento, en el Sur de España y Norte de África. Propuesta de un modelo tectónico", "Francisco González Lodeiro (UGR)". Junta de Andalucía, enero 2006 - diciembre 2008. **169.400** €. Concedido. Tipo de participación: **Investigator**.

#### **C.4. Contracts, technological or transfer merits**

- Innovative Concepts for High Accuracy Local Geodetic Networks (GEOLOCALNET) (RESEARCH AND DEVELOPMENT ACTIVITIES, 6TH FRAMEWORK PROGRAMME, CALL NUMBER 2423, AREA 3 – Innovation and International Initiatives. Innovation by Small and Medium Enterprises). GALILEO JOINT UNDERTAKING (ESA – EC). Entidades participantes: Galileian Plus S.r.l., Space Engineering S.p.A., Harpha Sea, d.o.o., University of Milano, University of Jaen, University of Ljubljana. Diciembre 2005 - Diciembre 2006. Investigador responsable: M. Chersich (Galileian Plus S.r.l.) (Antonio J. Gil en la UJA). **284.404** € (39.980 € para la UJA).
- Control de la calidad del apoyo topográfico para el vuelo b/n 1:20.000 para la generación de la ortofotografía digital de Andalucía. Empresa/Administración financiadora: Empresa Pública para el Desarrollo Agrario y Pesquero de Andalucía S.A. Entidades participantes: Universidad de Jaén. Febrero de 2003 - Diciembre de 2004. Responsible Researcher at the University of Jaén: Antonio J. Gil. **41.482** €.
- Desarrollo de una metodología de densificación de la infraestructura geodésica en la Comunidad Autónoma Andaluza. Consejería de Obras Públicas y Transporte de la Junta de Andalucía. Entidades participantes: Universidad de Jaén. 2001 - Abril 2003. Responsible Researcher at the University of Jaén: Antonio J. Gil. **5.300.000** ptas.