

Part A. PERSONAL INFORMATION

		CV date		28/04/2020
First and Family name	Anna Jurado Elices			
Social Security, Passport, ID number	47788965-W	Age	38	
Researcher codes	WoS Researcher ID	O-6338-2018		
	SCOPUS Author ID	39661236700		
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A.1. Current position

Name of University	Institute of environmental assessment and water research (IDAEA-CSIC)			
Department	Geosciences			
Address and Country	C/Jordi Girona 18, 08034, Barcelona			
Phone number	+34934006100	E-mail	anna.jurado@idaea.csic.es	
Current position	Beatriu de Pinós Postdoctoral researcher	From	01/04/2020	
Keywords	urban groundwater; water resources management; organic micropollutants, groundwater quality, coupled processes			

A.2. Education

Title	University	Year
PhD in Geotechnical Engineering- Groundwater Hydrology specialisation	Technical University of Catalonia (Spain)	2013
40th International course on Groundwater Hydrogeology	Technical University of Catalonia (Spain)	2006
Degree in Geology	University of Barcelona (Spain)	2005

A.3. JCR articles, h Index, thesis supervised...

Source: SCOPUS (SJR) →32 of 36 total papers in first quartile (Q1) with and H index=19

Total citations: 1103; Average citations per year (2015-2019): 177

Source: WOS (JCR) →26 of 33 total papers in Q1 with H index=17

Total citations: 1005; Average citations per year (2015-2019): 158

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Anna Jurado studied Geology at the University of Barcelona (2005) and holds a PhD in Geotechnical Engineering with specialization in Groundwater Hydrology that she finished in October 2013 with an Excellent Cum Laude (UPC, 2013). Afterwards, she has pursued two postdocs in foreign EU countries. She worked at the Hydrogeology and Environmental Geology group at the University of Liège (ULg, Belgium) from November 2015 to October 2017. Thereafter, from November 2017 to March 2020, she worked at the Institute of Groundwater Management (TU Dresden, Germany). In total, she has more than **40 months of international research experience**. During this period she obtained **competitive fellowships**: (1) **Marie Curie Cofund** and (2) **Open Topic Postdoc Position**. Recently, she has been awarded with a **Beatriu de Pinós** and she is a **postdoctoral researcher** at **IDAEA-CSIC** since April 2020.

She has produced since 2011 a **high impact** in the field of **urban hydrogeology**. She has co-authored 36 papers in SJR peer reviewed international journals (33 in JCR-indexed journals), out of which 32 are in first SJR quartile (and 26 in first JCR quartile). Her research has **attracted** more than **1100 citations** (<890 excluding self-citations) and 1000 citations in SJR and JCR, respectively, with an **H-index of 19** in SJR and **18** in JCR. She is the **first author** of **35%** of such papers, proving her capacity of research leadership and independence. Her work has been presented in around 50 national and international (AGU, EGU, IAH) conferences and workshops (4 as invited speaker). She took part as **invited speaker** in "les Jeudis de l'Aquapole" at ULg (Belgium).

She has participated in **7 competitive I+D+I projects** funded by public entities (4 of them international) and in 8 research contracts funded by national (SACYR, GISA, ADIF) and international (Bridges Technologies) companies. She was the **principal investigator** of **two** of the I+D+I projects funded by the European Council (EC) through the Marie Curie actions and German Federal and State Governments (German funding). Recently, she has received funding for a new project (Contaminants of emerging concern in urban Aquifers: Are they a pRoblem for groundwater use? (CARE)) funded by the Catalan Government and EC.

She is currently **member** of the **editorial board** of Hydrogeology Journal and Science of the Total Environment since January 2018. She is also a Lead Guest Editor of the Special Issue on Urban Hydrogeology in Water (MDPI journal). She has **reviewed** more than 50 manuscripts for 10 different **JCR/SJR journals**. She has organized two sessions in the European Geosciences Union in 2019 and 2020 and was a member of the International Advisory Panel 10th GQ Conference.

She was member of the PhD assessment committee of one PhD candidate and has supervised MSc and BSc students (4) at TU Dresden in topics related to groundwater management.



At mid-term she would like to investigate the field of urban hydrogeology. Pressure on freshwater resources in urban areas is increasing due to several factors such as high population growth and climate change. Consequently, further research must be devoted to identify potential freshwater resources such as urban groundwater. With that purpose in mind it is necessary to 1) **identify** the most **suitable conditions** that contribute to the **natural bioremediation** of selected **contaminants** in **urban groundwater** and (2) **propose and develop solutions for the sustainable management** of urban groundwater resources by means of **numerical modelling** facilitating the decision making and **improving its management**.

Part C. RELEVANT MERITS

C.1. Publications (including books)

Selected publications in peer reviewed journals

1. **Jurado, A.**, Bofill-Mas, S., Vázquez-Suñé, E., Pujades, E., Girones, R., Rusiñol, M. (2019). Occurrence of pathogens in the river-groundwater interface in a losing river stretch (Besòs River Delta, Spain). *Sci. Total Environ.*, 696, 134028. **Citations:1**
2. **Jurado, A.**, Walther, M., Díaz-Cruz, M.S. (2019). Occurrence, fate and environmental risk assessment of the organic micropollutants included watch list set by EU Decision 2015/495 in the groundwater of Spain. *Sci. Total Environ.* 663, 285-296. **Citations:19**
3. **Jurado, A.**, Borges, A.V, Pujades, E, Briers, P., Nikolenko, O., Dassargues, A., Brouyère, S. (2018). Dynamics of greenhouse gases in the river-groundwater interface in gaining river stretch (Triffoy catchment, Belgium). *Hydrogeol. J.*, 26(8), 2739-2751. **Citations:2**
4. Pujades, E., **Jurado, A.**, Orban, P., Ayora, C., Poulain, A., Godemiaux, P., Brouyère, S., Dassargues, A. (2018) Hydrochemical changes induced by Underground Pumped Storage Hydropower and their associated impacts. *Journal of hydrology.* 563, 927 - 941. **Citations:6**
5. **Jurado, A.**, Vázquez-Suñé, E., Pujades, E. (2017). Potential uses of pumped urban groundwater: a case study in Sant Adrià del Besòs (Spain). *Hydrogeol. J.*, 25(6), 1745-1758. **Citations:4**
6. **Jurado, A.**, Gago-Ferrero, P., Díaz-Cruz, S., Vázquez-Suñé, E., Carrera, J., Pujades, E., Barceló, D., (2014). Urban groundwater contamination by residues of UV filters. *J. Hazard. Mater.* 271, 141-149. **Citations:67**
7. **Jurado, A.**, Vázquez-Suñé, E., Soler, A., Tubau, I., Carrera, J, Pujades, E., Anson, I., (2013). Application of multi-isotope data (O, D, C and S) to quantify redox processes in urban groundwater. *Appl. Geochem.* 34, 114-125. **Citations:21**
8. López-Serna, R., **Jurado, A.**, Vázquez-Suñé, E., Carrera, J., Petrovic, M., Barceló, D., (2013). Occurrence of 95 pharmaceuticals and transformation products in urban groundwaters underlying the metropolis of Barcelona, Spain. *Environ. Pollut.* 174, 305-315. **Citations:199**
9. **Jurado, A.**, Mastroianni, N., Vázquez-Suñé, E., Carrera, J., Tubau, I., Pujades, E., Postigo, C., López de Alda, M., Barceló, D., (2012). Drugs of abuse in urban groundwater. A case study: Barcelona. *Sci. Total Environ.* 424, 280-288. **Citations:54**

Book chapters

1. **Jurado, A.**, Vázquez-Suñé, E., Carrera, J., Barceló, D. Los contaminantes orgánicos emergentes en las aguas subterráneas de España (*Emerging organic contaminants in the groundwater of Spain*). In *Hidrología emergente. Aniversario 50 CHIS 2016. Nuevos campos en la investigación y el desarrollo sostenible de las aguas subterráneas.* pp. 127 - 151. Fundación Centro Internacional de Hidrología Subterránea, 2016. ISBN 978-84-921469-2-5

C.2. Research projects and grants

C.2.1. Participation in most relevant research projects

Project: Contaminants of emerging concern in urban Aquifers: Are they a problem for groundwater use? (CARE) **Funding organisation:** Catalan Government and European Council. **Organisation:** IDAEA-CSIC. **Principal investigator:** Anna Jurado. **Budget:** 144.300 €. **Period:** Apr 2020-Mar 2023. **Duties:** (1) project management, (2) execution laboratory experiments (i.e., column and batch experiments) and water sampling campaigns, (3) results analysis through the modelling of reactive transport processes and geostatistical techniques and (4) writing of scientific papers and technical reports.

Project: Fate of emerging pollutants during managed aquifer recharge (ERASE). **Funding organisation:** Excellence Initiative of the German Federal and State Governments. **Organisation:** Technische Universität Dresden. **Principal investigator:** Anna Jurado. **Budget:** 138.000 €. **Period:** Nov 2017-Mar 2020. **Duties:** (1) project management, (2) execution laboratory experiments (i.e., column and batch experiments), (3) supervision of MSc and BSc students, (4) results analysis through the modelling of reactive transport processes and geostatistical techniques and (5) writing of scientific papers.

Project: Managing soil and groundwater impacts from agriculture for sustainable intensification (INSPIRATION). **Funding organisation:** European Council (H2020). **Organisation:** University of Liège. **Principal investigator:** Serge Brouyère. **Budget:** 230.000 €. **Period:** 2016-2019. **Role:** Researcher.

Project: Groundwater contribution to greenhouse gases emission from rivers. **Funding organisation:** European Council and the University of Liège **Organisation:** University of Liège. **Principal**



investigator: Anna Jurado. **Budget:** 97.000 €. **Period:** Nov 2015-Oct 2017. **Duties:** (1) project management, (2) the execution of water sampling campaigns and analysis of the samples (3) results analysis through geostatistical techniques and (4) writing of scientific papers.

Project: Hydrogeological modelling associated to pumped-storage hydro-electricity using old underground works. **Funding organisation:** European Council and the University of Liège. **Organisation:** University of Liège. **Principal investigator:** Estanislao Pujades. **Budget:** 95.000 €. **Period:** Dec 2014-Nov 2016. **Role:** Researcher.

Project: Mejora del proceso de construcción de túneles incorporando información geológica e hidrogeológica en tiempo real. (MEPONE). **Funding organisation:** CICYT. Reference: IA2010-20244. **Organisation:** Grupo de Hidrología Subterránea (GHS, UPC-CSIC). **Principal investigator:** E. Vázquez-Suñé. **Budget:** 92.900 €. **Period:** from 2011 to 2013. **Role:** Researcher.

Project: Grups de Recerca Consolidats - 2009 "Grup d'hidrologia subterrània" (2009-SGR-1057). **Organisation:** Grupo de Hidrología Subterránea (GHS, UPC-CSIC). **Funding organization:** Government of Catalonia. **Principal investigator:** E. Vázquez-Suñé. **Period:** 2009/2011. **Budget:** 79.040 €. **Role:** Researcher.

C.2.2. Grants

- Nov 2017-Sept 2020, **Open Topic Postdoc Position** fellowship (17/470), **Funding Agency:** Excellence Initiative of the German Federal and State Governments, **Budget:** 150.000 € **Institution:** Technische Universität Dresden (Dresden, Germany)
- Nov 2015-Oct 2017, **Marie Curie Cofund postdoctoral fellowship;** FP7-MSCA-COFUND n°: 600405, **Funding Agency:** European Union and the University of Liège, **Budget:** 95.000 €, **Institution:** University of Liège (Liège, Belgium).

C.3. Technology and transfer contracts (most relevant)

Project: Estudio y seguimiento de la evolución del drenaje y niveles freáticos en el entorno de la Plaza de la Villa de Sant Adrià de Besòs (2007-2012), **Funding organisation:** Ajuntament de Sant Adrià del Besòs, **Budget:** 15.000 €, **Organisation:** GHS(UPC-CSIC), **Principal investigator:** E. Vázquez Suñé, **Period:** from Jan to Dec 2012.

Project: Evaluación y actualización del balance de masa de las aguas subterráneas en el Plan de Barcelona. Aplicación del modelo hidrogeológico del Plan de Barcelona y del Delta del Besòs, **Funding organisation:** Ajuntament de Barcelona, **Budget:** 15.000 €, **Organisation:** GHS (UPC-CSIC), **Principal investigator:** E. Vázquez Suñé, **Period:** from April to June 2012.

Project: Trabajos de consultoría hidrogeológica relativos a la construcción de la estación del metro de York en Toronto, **Funding organisation:** BRIDGES TECHNOLOGIES, S.L., **Budget:** 14.400 €, **Organisation:** GHS (UPC-CSIC), **Principal investigator** E. Vázquez Suñé, **Period:** from Sep to Dec 2011

Project: Evaluación, seguimiento y cuantificación de los posibles impactos que el tramo Sants — Sagrera, de la Línea de Alta Velocidad Madrid — Barcelona — Figueras, puede tener sobre los acuíferos del Llano de Barcelona, **Funding organisation:** SACYR VALLEHERMOSO SA - ADIF, **Budget:** 124.000 €, **Organisation:** GHS (UPC-CSIC), **Principal investigators:** E. Vázquez Suñé and Jesús Carrera, **Period:** from Nov 2008 to August 2011

Project: Evaluación, diseño y seguimiento de la implementación de sistemas de drenaje en las obras de la L9 del metro y otras grandes infraestructuras gestionadas por GISA, **Funding organisation:** GISA, **Budget:** 210.000 €, **Organisation:** GHS (UPC-CSIC), **Principal investigator:** E. Vázquez Suñé, **Period:** from Jun 2008 to Dec 2009.

Project: Drenaje para la excavación del Túnel Torrassa Sants, **Funding organisation:** SACYR-ADIF, **Budget:** 120.000 €, **Organisation:** GHS (UPC-CSIC), **Principal investigators:** Jesús Carrera and E. Vázquez Suñé, **Period:** from Nov 2006 to Set 2008.

C.4. Stays in Public and R&D research centres

- **16 months** (Nov 2017 to Sept 2018 and August 2019 to now), Postdoc Researcher at the Institute for Groundwater Management of Technische Universität Dresden (Dresden, Germany) (11 months of maternity/parental leave).
- **24 months** (Nov 2015-Oct 2017), Postdoc Researcher at the Environmental Geology and hydrogeology group of the University of Liège (Liège, Belgium)
- **2 months** (Jul 2005 to August 2005), Scholarship at the Dept. Geosciences, Repsol YPF (Madrid, Spain).

C.5. Memberships of Scientific Societies

- European Geosciences Union (EGU) since 2014
- International Association of Hydrogeologists (IAH) since 2015



C.6. Other merits

- Participation in the **Editorial Board** of two international journals: **Hydrogeology Journal** and **Science of the Total Environment** since the beginning of 2018.
- Leader **guest editor** in **Water**. Special issue on Urban Groundwater
- **Journal referee** for the following journals: Water Research, Water and Environment Journal, Environmental Pollution, Water, Ecotoxicology and Environmental Safety, Journal of Hydraulic Engineering, Science of The Total Environment, Agriculture Ecosystems & Environment, Environmental Science and Pollution Research, Geologica Acta.
- **External reviewer** of the **PhD thesis** of the 2 candidates Cristina Valhondo and Rotman Criollo from the **UPC** and Francesca Petronici from **the University of Bologna** (Italy)
- **Dissemination** activities in the **media** (e.g., TV3, Telecinco, El país, El Periodico, El Mundo, La Vanguardia, ARA, Com Radio) for " Drugs of abuse in the urban groundwater of Barcelona" and IAGUA blog website for "Excavaciones Profundas y Aguas Subterráneas".
- **Convener** of the session "*Urban groundwater: a strategic resource*" in the European Geosciences Union General Assembly 2019 (Vienna, Austria, 7-12 April 2019) and 2020 (Vienna, Austria, 3-8 May 2020).
- **Co-chair** of the session "Diffuse pollution of groundwater from geogenic to anthropogenic origins" (University of Liege, Belgium, 9-12 September 2019).
- Member of the International Advisory Panel of 10th International Groundwater Quality Conference (University of Liege, Belgium, 9-12 September 2019).
- Member of the supervision team of the Ph.D candidate Olha Nikolenko from the EU-ITN project INSPIRATION since 2017.
- Supervision of MSc and BSc students (4) at the Technische Universität Dresden (Germany) in topics related to groundwater management.
- Selected as Early Career Researcher to help Technische Universität Dresden (Germany) to obtain the funding within the Excellence Strategy programme by the Federal and State Governments that took place in February 2019.

C.7. Career breaks

From October 2018 to July 2019: Maternity/parental leave