MINISTERIO DE CIENCIA E INNOVACIÓN

Cofinanciado por la Unión Europea

AGENCIA ESTATAL DE INVESTIGACIÓN

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	Cayetano		
Family name	Gutiérrez Cánovas	Date of Birth	23/05/1982
Gender	Male		
ID number		URL Web	https://tanogutierrezcanovas.weebly.com/
e-mail	cayetano.gutierrez@urjc.es		
Open Researcher and Contributor ID (ORCID) (*)		0000-0002-6785-4049	
Other scientific profiles: Google Scholar | WOS (Referee activity) | GitHub (code) | ImpactStory			

A.1. Current position

Position	Ramón y Cajal researcher		
Initial date	1/09/2024		
Institution	University Rey Juan Carlos (URJC)		
Department/Centre	Global Change Research Institute (IICG-URJC)		
Country	Spain	Phone number	+34634570441
Keywords	Biodiversity | Ecosystem functioning | Multiple stressors | Global change | Rivers		

A.2. Previous positions (research activity interruptions)

Period	Position/Institution/Country/Cause of the interruption
1/2026-4/2026	Paternity leave (12 weeks)
7/2025-9/2025	Paternity leave (6 weeks)
9/2022-8/2024	'La Caixa' Postdoctoral Junior Leader Fellowship
9/2020-8/2022	Juan de la Cierva-Incorporación Fellow/Doñana Biological Station-CSIC/Spain
10/2020 – 12/2020	Paternity leave (3 months)
5/2019 – 8/2020	Postdoctoral researcher at FCT-Streameco / CBMA-Univ. Minho/ Portugal
3/2017 – 4/2019	Juan de la Cierva-Formación Fellowship/ Univ. Barcelona (UB) / Spain
1/2015 – 2/2017	Postdoctoral researcher at EU MARS / Cardiff University / UK
8/2014 – 12/2014	Part-time technician / UMU / Spain
12/2011 – 6/2013	Educator-researcher, Lessons from Nature (EUComenius) / Spain
11/2007 – 11/2011	PhD student, funded by Fundación Séneca / UMU / Spain
5/2007 – 11/2007	Research contract / UMU / Spain
10/2004 – 7/2005	Introductory research grant ("Beca-Colaboración") / Univ. Murcia (UMU) / Spain

A.3. Education

Degree	University/Country	Year
PhD thesis: 'Ecosystem responses to natural and anthropogenic stress: from biomonitoring tools to predictive ecology' (extraordinary PhD award). Supervisors: J. Velasco and A. Millán.	University of Murcia (UMU)	2014
3-yr BS Bussiness Sciences	UMU	2010
2-yr MSc Biodiversity conservation	University of Alicante	2007
5-yr degree in Environmental Sciences	UMU	2005

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

I study why **biodiversity is changing and what this means for ecosystems, biogeochemistry and society**. My work examines how multiple stressor effects combine to impact stream organisms and ecosystem multifunctionality, informing better policies for biodiversity conservation under global change. I also share ecology with broader audiences through ecomandanga.org.

My work has advanced three linked areas: (1) multiple-stressor effects across ecological and spatiotemporal scales, (2) biodiversity–ecosystem functioning relationships under global change and (3) biomonitoring that distinguishes human pressures from natural environmental variability.

Scientific production and contribution to knowledge. I have published **67** papers in JCR journals (16 as first author, including two joint first-authorship papers; 18 as second author; and nine as senior author). I played a major role as first, second or senior author in 44 publications (66% of my JCR output). In these papers, I made key contributions to conceptualisation, literature review, fieldwork, data analysis and manuscript writing. Citations: 4,430; h-index: 34; ten papers >100 citations. I also obtained an I3 certificate (2021–2022).

Independence and leadership. I obtained three competitive fellowships that allowed me to develop new ideas and become an independent researcher. First, I was awarded a three-year Juan de la Cierva-Incorporación fellowship at EBD-CSIC (success rate: 13.8%), my first opportunity to manage my own funding (€6,000). Second, I obtained a highly competitive **"la Caixa" Junior Leader** fellowship, my first opportunity to lead a research project (budget: €115,000). The success rate was 4.6%, and it was the only grant funded in the Ecology category. More recently, I was awarded a **Ramón y Cajal fellowship in 2022** (€50,000 research budget).

I also obtained **two Generación de Conocimiento projects** as PI: TrophicStress (2022, €120,000) and TemporalStress (2024, €285,000). These grants provided the resources to initiate independent research lines through the Iberian River Observatory (IberRios), a large-scale observatory investigating multiple stressor impacts on river biodiversity and ecosystem functioning. I also coordinate the Riofun survey, a global network studying how fluvial multitrophic biodiversity and multifunctionality respond to global change. These activities have contributed to the co-establishment of AQUA Lab at the IICG-URJC.

Internationalization. I worked for **3.5 years abroad** as a postdoctoral researcher at Cardiff University and the University of Minho and completed three international stays (6.5 months). I participated in international research networks, including the SMIRES COST Action, and was European coordinator of FWBON (October 2024–June 2025). These international activities have resulted in 23 papers. I was invited as a plenary speaker at the AIL 2020 conference and contributed to the organisation of special sessions and international conferences.

I have an established **international profile as a referee** for >30 JCR journals, including Nature, Nature Communications and Ecology Letters, for which I have completed 153 peer reviews. I received the Top Reviewer Award in Environment and Ecology (September 2018). I have also reviewed 13 research projects for international funding agencies: EU Biodiversa (1), EU Water4All (6), Argentinian FONCyT (1), Austral University of Chile (1), German DFG (1), Peruvian FONDECYT (2) and Polish OSF (1), plus six projects for Spanish ANEP, one for ACCUA and one for the ILINK-CSIC call.

Training, service and outreach. As a direct result of my mentorship of early-career researchers, I have published 13 articles as second or senior author, e.g., Carbonell et al. (2017), Bruno et al. (2016a, 2016b), Soria et al. (2020), Arias-Real et al. (2021, 2022a, 2022b) and Lourenço et al. (2023). I have supervised six final degree projects and four MSc theses and currently supervise three PhD students, expected to complete their theses in 2029. I have been a member of two PhD thesis juries and one PhD thesis follow-up panel.

I organised four workshops for early-career researchers, including an international course on functional ecology, and contributed more than 400 hours of teaching in BSc and MSc programmes at UMU, UB and URJC, including the Erasmus Mundus Master in Global Change Ecology and Biodiversity Management. I am President of the Asociación Ibérica de Limnología (AIL) since 23 June 2026. I was a PhD student representative in the Council of the Ecology and Hydrology Department (UMU, 2013) and President of the Association of Young Researchers of UMU-AJIUM (2014). I received the Extraordinary PhD Award from UMU in 2015.

I have a strong interest in science communication, developed through my own platform (Ecomandanga), contributions to other blogs and regular participation in national and international media (see my *website* for further details). Ecomandanga received the national outreach award of the Spanish Association of Ecology (AEET).

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

C.1. Publications

Selected publications in JCR journals (CA: corresponding author)

10. Arias-Real, R., Delgado-Baquerizo, M., Sabater, S., **Gutiérrez-Cánovas, C.** (4/14) ... & Hurtado, P.(CA) (2024). Unfolding the dynamics of ecosystems undergoing alternating wet-dry transitional states. *Ecology Letters*, 27, e14488.

9. Gionchetta, G., Arias-Real, R., Hurtado, P. Buergmann, H. & **Gutiérrez-Cánovas, C.** (CA) (2024)**.** Key bacterial groups maintain stream multifunctionality over a gradient of seasonal drying. *Limnology and Ocenography Letters* 9, 286-295.

8. Gutiérrez-Cánovas, C. (CA), von Schiller, D., Pace, G., Gómez-Gener, L., & Pascoal, C. (2024). Multiple stressors alter greenhouse gas concentrations in streams through local and distal processes. *Global Change Biology* 30(5), e17301.

7. Gutiérrez-Cánovas, C. (CA), Stubbington, R., von Schiller, D., Bolpagni, R., Miriam Colls, M., Datry, T., Marcé, R. & Bruno, D. (2024) Use of trait concepts and terminology in freshwater ecology: historic, current and future perspectives. *Freshwater Biology* 69 (4), 477-495.

6. Gutiérrez-Cánovas, C. (1/9), Worthington, T. A.,... & Durance, I. (CA) (2021). Populations of high-value predators reflect the traits of their prey. *Ecography*, *44*(5), 690-702.

5. Gutiérrez-Cánovas, C. (CA), Moleón, M., Mateo-Tomás, P., Olea, P.P., Sebastián-González, E., & Sánchez-Zapata, J.A. (2020). Large home range scavengers support higher rates of carcass removal. *Functional Ecology*, *34*(9), 1921-1932.

4. Gutiérrez-Cánovas, C. (CA, 1/10), Sánchez-Fernández, D., Cañedo-Argüelles, M. *et al.* (2019). Do all roads lead to Rome? Exploring community trajectories in response to anthropogenic salinization and dilution of rivers. Phil. Trans. R. Soc. B 374: 20180009.

3. Feld, C.K. (CA), Segurado, P., & **Gutiérrez-Cánovas, C.** (2016). Analysing the impact of multiple stressors in aquatic biomonitoring data: A 'cookbook' with applications in R. *Science of the Total Environment* 573: 1320-1339.

2. Gutiérrez-Cánovas, C. (CA), Sánchez-Fernández, D., Velasco, J., Millán, A. & N. Bonada. (2015). Similarity in the difference: changes in community functional features along natural and anthropogenic stress gradients. *Ecology* 96(9): 2458 - 2466.

1. Gutiérrez-Cánovas, C. (CA), Millán, A., Velasco, J., Vaughan, I.P., & Ormerod, S.J. (2013). Contrasting effects of natural and anthropogenic stressors on beta diversity in river organisms. *Global Ecology and Biogeography*, *22*(7), 796-805.

C.2. Congresses

1. I presented **>60 works** at national and international conferences (AIL, SEFS, ASLO, IALE, SIBECOL).
2. **Invited plenary speaker** at Iberian Association of Limnology-AIL 2020 conference (28 Oct 2020). **Invited speaker** at Breakfast Seminar: Exploring the Water-Food-Energy Nexus. Manchester Museum (9 Sep 2013 - seminar summary).
3. Invited speaker at seminar series of different universities (e.g. Univ. Montpellier – Oct 2016, Univ. Cottbus – Jan 2019)
4. **Organization of scientific activities.** I contributed to the organization of two international conferences (SIBECOL 2019, PLPF 2022). I co-organized four special sessions at international conferences (IALE 2013, SEFS 2015, AIL 2018, SIBECOL2022, AIL2024, AIL2026).

C.3. Research projects

I obtained **>1,145,000 €** to develop my research through **2 projects and 7 fellowships** awarded in competitive programs, resulting in an overall **research budget** of **576,000€**:

9. Generación de Conocimiento 2024. Ministry of Science and Innovation, research budget: 285,000€, 2025-2029, Ref: PID2024-161359NB-I00. Project: "Unravelling the impacts of multiple stressors on fluvial ecosystems across temporal scales (TemporalStress)". PIs: Cayetano Gutiérrez-Cánovas & Javier Sánchez-Hernández. **Role: PI**

8. Ramón y Cajal. (Ministry of Science and Innovation, salary: 194,350€ + research budget: 50,000€, 2024-2029, Ref: RYC2022-038189-I). **Role: PI**

7. Generación de Conocimiento 2022. Ministry of Science and Innovation, research budget: 120,000€, 2023-2025 (official extension granted until 31/08/2026), Ref: PID2022-141732NA-I00). Project: "A food web perspective to better understand the impacts of multiple stressors on multitrophic riverine ecosystems (TrophicStress)". **Role: PI**

6. 'La Caixa' Junior Leader fellowship (Success rate: 4.6%. 'La Caixa' Foundation, 301,500€; salary: 186,000€ + research: 115,000 €, 2022-2025. Ref: LCF/BQ/PR22/11920005). Project: "Exploring large-scale impacts of multiple stressors and biodiversity change on river functioning and biogeochemistry". **Role: PI**

5. 'Juan de la Cierva-Incorporación' fellowship (Success rate: 14.8%. MINECO, 93,000€; salary: 87,000€ + research: 6000€, 2020-2023. Ref: Ref. JC2018-036642-I). **Role: PI**

4. Mobility grant (EU COST action CA15113 - SMIRES, stipend: 900€ – hosting institution Pyrenean Institute of Ecology-CSIC, Jan-2020; Ref. ECOST-STSM-Request-CA15113-46222)

3. 'Juan de la Cierva-Formación' fellowship (Success rate: 12.5%. MINECO, salary: 50,000€; 2017-2019. Ref. FJCI-2015-25785)

2. PhD fellowship (Regional Agency of Research - Séneca Foundation, salary: 57,600€, 2007-2011)

1. Introductory scholarship to research ('Beca-colaboración'), Ministry of Science and Education, University of Murcia, stipend: 2,400€, 2004-2005.

C.4. Technology/Knowledge transfer

Not applicable