

CV Date	30/01/2024
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Part A. PERSONAL INFORMATION

First Name	Wenceslao		
Family Name	Arroyo Machado		
Sex	Male	Date of Birth	
ID number Social Security, Passport			
URL Web	https://warroyomachado.com/		
Email Address			
Open Researcher and Contributor ID (ORCID)	0000-0001-9437-8757		

A.1. Current position

Job Title	"Contrato puente" postdoctoral contract		
Starting date	2023		
Institution	Universidad de Granada		
Department / Centre	Departamento de Información y Comunicación / Facultad de Comunicación y Documentación		
Country	Spain	Phone Number	
Keywords			

A.2. Previous positions (Research Career breaks included)

Period	Job Title / Name of Employer / Country
2019 - 2019	Personal técnico de apoyo a la investigación y a la gestión de la I+D+i, / Medialab UGR - Laboratorio de Investigación en Cultura y Sociedad Digital, Universidad de Granada

A.3. Education

Degree/Master/PhD	University / Country	Year
Doctoral Programme in Information and Communication Technologies	Universidad de Granada	2023
Master's Degree in Data Science and Computer Engineering	University of Granada	2018
Degree in Information and Documentation	University of Granada	2017

Part B. CV SUMMARY

Scientific Contributions

As a postdoctoral researcher at the University of Granada, my career has been a continuous ascent towards excellence in research. My early days in the predoctoral realm, spanning from 2017 to 2023, led me to obtain a cum laude rating and international mention for my doctoral thesis. During this time, I published 36 articles in the Web of Science, with a notable focus on 21 articles indexed in the Web of Science Core Collection and 19 in the Journal Citation Reports (JCR). These publications have appeared in highly prestigious journals within my field, such as Scientometrics, JASIST, Journal of Informetrics, Quantitative Science Studies, and in multidisciplinary journals like PLOS One.

My contributions have significantly impacted the scientific community, as evidenced by Scopus data showing that one-third of my publications (6 articles) are among the top 25% most cited globally, and two-thirds (12 articles) in first quartile journals. Furthermore, 18 of my articles have had significant social impact according to Altmetric.com, with research on Wikipedia, like 'Science through Wikipedia', achieving an Altmetric Attention Score of 78, placing it among the top 5% of socially impactful works on Altmetric.com.

Regarding my personal metrics, my h-index is 9 on Google Scholar, and 6 on both Web of Science and Scopus, which evidences the broad reception and recognition of my work. I have actively contributed to the field through 78 peer reviews for renowned journals such as PLOS One, Scientometrics, and JASIST, reinforcing the integrity and quality of scientific research.

I have been part of 8 significant research projects, contributing in various roles in work teams of 4 national research plan (InfluScience, COMPARE, SciCoMetrics and DUALES), a regional research plan (Alt-Andalus), a project of the BBVA Foundation (Knowmetrics), a local project at the University of Granada, and another of the UNIR's own plan (CAMPEONA).

Internationalization: Expansion and Global Collaborations

My international collaborations have been a fundamental pillar in my career. I have worked with a total of 19 internationally renowned researchers in the fields of scientometrics and altmetrics, including prominent figures like Mike Thelwall, Wolfgang Glänzel and Rodrigo Costas. Since 2020, I have maintained a productive collaboration with the CWTS in Leiden, one of Europe's leading research centers, which included a 3-month research stay in 2022. This collaboration resulted in the publication of two articles and four presentations at international conferences, strengthening my network of contacts and global presence.

- **Research Lines and Results Large-Scale Data Processing and Analysis:** I have published 4 works focused on using big data techniques for dataset preparation and extraction of significant insights in scientometrics and social media.
- **Application of Scientometric Techniques in New Social Environments:** With 6 published works, I have contributed to the development of scientific maps for a deeper understanding of social dynamics in science.
- **Development of New Methodologies in Social Media:** I have completed 7 works on adapting methodologies to social media to analyze the interaction between science and society, innovating in measuring the social impact of research.
- **Research in Advanced Scientometric Techniques and Methods:** My 3 works in this line have explored new indicators and sources for scientometric analysis.

I have extensively explored platforms like Twitter, contributing innovative methods for mapping social attention in science. In Wikipedia, I have made significant contributions, such as mapping scientific knowledge in Wikipedia from its article references (paper in PLOS One 2020 with a citation percentile of 72 and among the top 5% in social impact on Altmetric.com), constructing the Wikipedia Knowledge Graph (paper in QSS 2022 with a citation percentile of 81 and over 1400 dataset downloads), and analyzing the relationships between science and society (paper in JASIST 2023 among the top 25% in social impact on Altmetric.com).

Contributions to Society and Knowledge Transfer

As COO of EC3Metrics spin-off, I have carried out critical functions in scientific advising and training course design. As an organizing member at the European Summer School of Scientometrics and coordinator of the #yosigopublicando initiative at the University of Granada, I have taught 34 predoctoral courses with an average rating of 5 stars. My work with ChatGPT in the academic field, including more than 10 courses throughout Spain and co-authorship of a manual with over 10,000 downloads, demonstrates my commitment to educational innovation and research. Additionally, I co-supervised Francisco José López Guerrero's Master's thesis in 2023, evidencing my contribution to the training of young researchers.

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (nº x / nº y): position / total authors. If applicable, indicate the number of citations

- 1 **Scientific paper.** (1/4) Arroyo-Machado, Wenceslao; Diaz-Faes, Adrian A.; Herrera-Viedma, Enrique; Costas, Rodrigo. 2023. From academic to media capital: To what extent does the scientific reputation of universities translate into Wikipedia attention?. Journal of the Association for Information Science and Technology. WILEY. ISSN 2330-1635. <https://doi.org/10.1002/asi.24856>
- 2 **Scientific paper.** Torres-Salinas, Daniel; (2/3) Arroyo-Machado, Wenceslao; Robinson-Garcia, Nicolas. 2023. Bibliometric denialism. Scientometrics. SPRINGER. 128-9, pp.5357-5359. ISSN 0138-9130. SCOPUS (2) <https://doi.org/10.1007/s11192-023-04787-2>
- 3 **Scientific paper.** Valderrama-Baca, Pilar; (2/3) Arroyo-Machado, Wenceslao; Torres-Salinas, Daniel. 2023. Altmetrics can capture research evidence: an analysis across types of studies in COVID-19 literature. Profesional de la información. 32-2. SCOPUS (1) <https://doi.org/10.3145/EPI.2023.MAR.13>
- 4 **Scientific paper.** Romero-Frías, Esteban; Torres-Salinas, Daniel; Arroyo-Machado, Wenceslao. 2023. Who influences policy labs in the European Union? A social network approach. Quantitative Science Studies. pp.1-19. ISSN 2641-3337. https://doi.org/10.1162/qss_a_00247
- 5 **Scientific paper.** (1/3) Arroyo-Machado, Wenceslao (AC); Torres-Salinas, Daniel; Costas, Rodrigo. 2022. Wikinformetrics: Construction and description of an open Wikipedia knowledge graph data set for informetric purposes. Quantitative Science Studies. pp.1-22. ISSN 2641-3337. SCOPUS (3) https://doi.org/10.1162/qss_a_00226
- 6 **Scientific paper.** Torres-Salinas, Daniel; Valderrama-Baca, Pilar; (3/3) Arroyo-Machado, Wenceslao (AC). 2022. Is there a need for a new journal metric? Correlations between JCR Impact Factor metrics and the Journal Citation Indicator—JCI. Journal of Informetrics. 16-3, pp.101315-101315. ISSN 1751-1577. SCOPUS (6) <https://doi.org/10.1016/j.joi.2022.101315>
- 7 **Scientific paper.** Torres-Salinas, Daniel; Robinson-García, Nicolás; (3/3) Arroyo-Machado, Wenceslao. 2022. Coverage and distribution of altmetric mentions in Spain: a cross-country comparison in 22 research fields. Profesional de la Información. 31-2. SCOPUS (6) <https://doi.org/10.3145/epi.2022.mar.20>
- 8 **Scientific paper.** Sierra-Rodriguez, Alba; (2/3) Arroyo-Machado, Wenceslao; Barroso-Hurtado, Domingo. 2022. Twitter and human trafficking: Purposes, actors and topics in the Spanish-speaking scene. COMUNICAR. GRUPO COMUNICAR. 30-71. ISSN 1134-3478. <https://doi.org/10.3916/C71-2022-06>
- 9 **Scientific paper.** Gorraiz, Juan; Ulrych, Ursula; Glänzel, Wolfgang; (4/5) Arroyo-Machado, Wenceslao; Torres-Salinas, Daniel. 2022. Measuring the excellence contribution at the journal level: an alternative to {Garfield}'s impact factor. Scientometrics. ISSN 1588-2861. SCOPUS (4) <https://doi.org/10.1007/s11192-022-04295-9>
- 10 **Scientific paper.** (1/3) Arroyo-Machado, Wenceslao; Robinson-Garcia, Nicolas; Torres-Salinas, Daniel. 2022. A Comprehensive Dataset of the Spanish Research Output and Its Associated Social Media and Altmetric Mentions (2016–2020). Data. 7-5. ISSN 2306-5729. SCOPUS (1) <https://doi.org/10.3390/data7050059>
- 11 **Scientific paper.** (1/3) Arroyo-Machado, Wenceslao (AC); Torres-Salinas, Daniel; Robinson-Garcia, Nicolas. 2021. Identifying and characterizing social media communities: a socio-semantic network approach to altmetrics. Scientometrics. 126-11, pp.9267-9289. ISSN 1588-2861. SCOPUS (8) <https://doi.org/10.1007/s11192-021-04167-8>
- 12 **Scientific paper.** Barroso-Hurtado, Domingo; (2/3) Arroyo-Machado, Wenceslao (AC); Torres-Salinas, Daniel. 2021. Formación Profesional Dual: evolución de red de actores en Twitter. Educación XX1. 24-2. SCOPUS (3) <https://doi.org/10.5944/educxx1.28136>

- 13 **Scientific paper.** Torres-Salinas, Daniel; (2/3) Arroyo-Machado, Wenceslao (AC); Thelwall, Mike. 2021. Exploring WorldCat identities as an altmetric information source: a library catalog analysis experiment in the field of Scientometrics. *Scientometrics*. 126, pp.1725-1743. ISSN 1588-2861. SCOPUS (4) <https://doi.org/10.1007/s11192-020-03814-w>
- 14 **Scientific paper.** Gallego-Cuiñas, Ana; Romero-Frías, Esteban; (3/3) Arroyo-Machado, Wenceslao. 2020. Independent publishers and social networks in the 21st century: the balance of power in the transatlantic {Spanish}-language book market. *Online Information Review*. 44-7, pp.1387-1402. SCOPUS (4) <https://doi.org/10.1108/OIR-10-2019-0342>
- 15 **Scientific paper.** (1/4) Arroyo-Machado, Wenceslao; Torres-Salinas, Daniel; Herrera-Viedma, Enrique; Romero-Frías, Esteban. 2020. Science through Wikipedia: A novel representation of open knowledge through co-citation networks. *PLOS ONE. Public Library of Science*. 15-2, pp.1-20. SCOPUS (22) <https://doi.org/10.1371/journal.pone.0228713>
- 16 **Scientific paper.** Robinson-Garcia, Nicolas; (2/3) Arroyo-Machado, Wenceslao; Torres-Salinas, Daniel. 2019. Mapping social media attention in Microbiology: identifying main topics and actors. *FEMS Microbiology Letters*. 366. ISSN 0378-1097. SCOPUS (16) <https://doi.org/10.1093/femsle/fnz075>
- 17 **Scientific paper.** Torres-Salinas, Daniel; Romero-Frías, Esteban; (3/3) Arroyo-Machado, Wenceslao (AC). 2019. Mapping the backbone of the Humanities through the eyes of Wikipedia. *Journal of Informetrics*. 13. ISSN 1751-1577. SCOPUS (7) <https://doi.org/10.1016/j.joi.2019.07.002>
- 18 **Book chapter.** Arroyo-Machado W.; Robinson-Garcia N.2023. Towards a science of humanities: How big data can solve the limitations of scientometrics. *Humanities and Big Data in Ibero-America: Theory, Methodology and Practical Applications*. pp.75-91. ISBN 9783110753516. <https://doi.org/10.1515/9783110753523-006>
- 19 **Book chapter.** Torres-Salinas, Daniel; Arroyo-Machado, Wenceslao. 2020. Library Catalog Analysis and Library Holdings Counts: origins, methodological issues and application to the field of Informetrics. *Evaluative Informetrics: The Art of Metrics-Based Research Assessment. Festschrift in Honour of Henk F. Moed*. Springer International Publishing. pp.287-308. SCOPUS (3) https://doi.org/10.1007/978-3-030-47665-6_13

C.3. Research projects and contracts

- 1 **Project.** #CAMPEONA: Caracterización Multimodal de Premios Españoles de Investigación y Artes. (UNIR). 2022-2024.
- 2 **Project.** SciCoMetrics: Unravelling the quality of science communication in news and social media: towards a novel taxonomy of metrics of science-society interactions. CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA. Adrián A. Díaz Faes. (INGENIO (CSIC-UPV), CWTS-Leiden University, CREST-Stellenbosch University). 2021-2024. 169.581,5 €.
- 3 **Project.** COntextual Mapping of academic Pathways Analysis for Research Evaluation (COMPARE). Nicolás Robinson García. (Universidad de Granada). 2021-2023. 55.000 €.
- 4 **Project.** Bots o editores ¿Quién está detrás de las citas de Wikipedia?. Wenceslao Arroyo Machado. (Universidad de Granada). 2021-2022.
- 5 **Project.** Científic@s socialmente influyentes: un modelo para medir la transferencia del conocimiento en la sociedad digital (InfluCiencia). Daniel Torres Salinas. (Universidad de Granada). 2020-2022. 52.137 €.
- 6 **Project.** Knowmetrics – evaluación del conocimiento en la sociedad digital. Fundación BBVA. Esteban Romero Frías. (Universidad de Granada). 30/09/2016-30/07/2018. 75.000 €.
- 7 **Project.** Valoración mediante alométricas de la influencia social de la investigación de las universidades andaluzas a través de un modelo multidimensional. Daniel Torres Salinas. (Universidad de Granada).