

Carlos Utrilla Guerrero

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🌐 https://carlosug.github.io/

Education

Universidad Politécnica de Madrid, ES <i>PhD candidate in Artificial Intelligence, Ontology Engineering Group (OEG): Web 🌐</i>	Since Oct 2023
University of Manchester, UK <i>M.Sc. in Social Research Methods and Statistics (CMI): Web 🌐, tesis: Link 🌐 – Assignments: Link 🌐</i>	2014
University of Zaragoza, ES <i>BA in Business and Administration, Erasmus Programme, Odense, DK (6 Months, 2012)</i>	2011

Research Interests

Open-source scientific research software, language language models, semantic web and bioinformatics

Career Profile

Research software engineer, researcher and project manager

Computer Skills

Languages: Python, R, TypeScript (React, ExpressJS, NextJS), LaTeX, SQL

Web: SPARQL, RDF, ontologies (OWL, SKOS, SIO), OpenAPI, JSON, XML, HTML&CSS, Material UI, D3.js

Tools: Bash, Git, Jupyter, Rstudio, Linux, Neo4J, Protégé, Docker

Languages









Spanish (Mother tongue), English (Fluent), French (Intermediate), Dutch (Basic)

Work Experience

Research Data & Software Services, TU Delft University, Delft, NL <i>Teacher & Lesson developer</i> Participate in TU Delft Digital Competence Center (DCC), Library and 4TU educational & research activities	Since Nov 2022
Institute of Data Science, Maastricht University, Maastricht, NL <i>Researcher data scientist</i> Provided a diverse support in teaching and research obligations	2020 – 2022
Kleos Space S.A, Luxembourg, LU <i>Data scientist</i> Provided support in data management and statistical analysis on the European Space Agency projects	2018 – 2019
Kneip Communications, Luxembourg, LU <i>Data manager</i> Participated in data governance for the Financial knowledge base	2015 – 2018
European Investment Bank (EIB), Luxembourg, LU <i>Graduate research assistant (6 months)</i> International scholarship in the IT department focused in data modeling, definition and implementation	2014
Imaginarium Group S.A, Istanbul, TR <i>Trainee data analyst (8 months)</i> International scholarship in a retail company to develop and implement the Forecasting Model	2013
Association of Young Entrepreneurs of Zaragoza, Zaragoza, ES <i>Bachelor trainee marketing (8 months)</i> Scholarship in a Spanish public administration to monitor the operational cash-flow and write the annual budgeting	2010
Ibercaja saving Bank, Zaragoza, ES <i>Bachelor trainee finance (6 months)</i> Scholarships in a Spanish bank to study the probability of default using logistic regression	2010

Research Projects and Activities

Research Projects:

- **2024:** ReSUF – Towards a Research Software Understanding Framework for Open Science: [Link](#) 
- **2023:** SoSS – Scientific open-source Software knowledge graph – [Link](#) 
- **2022:** PLAYFAIR – Applying data science for digital collections – [Link](#) 
- **2022:** DSRI - Data Science Research Infrastructure Supercomputing – [Link](#) 
- **2022:** KG4FOOD – Knowledge graphs for Nutritional data – [Link](#) 
- **2022:** ODISSEI – Developing distributed analytics techniques – [Link](#) 
- **2021:** CDDI – Community Data Driven Insights – [Link](#) 
- **2020:** EOSC-Life – FAIRAssist and Training – [Link](#) 

Research Activities:

- Miembro de FAIR4RS y PRO4RS en Research Data Alliance
- Miembro de DKG en COST Action EU
- Other contributions click here: <https://carlosug.github.io/researchprojects.pdf>





Teaching Experience

2024, 2023: Graduate school: Digital skills for research data and software: <https://carlosug.github.io/courses>

2020; 2021; 2022: Master course: Applied Research II: <https://maastrichtu-ids.github.io/AppliedRR/>

2020; 2021, 2022: Bachelor course: Quantitative Research Methods. <https://maastrichtu-ids.github.io/global-studies/>

List of Publications

- **C Utrilla Guerrero, Oscar Corcho and Daniel Garijo (2024).** “Automated Extraction of Research Software Installation Instructions from README Files: An Initial Analysis”  <https://doi.org/10.1007/978-3-031-65794-8>
- **C. Utrilla Guerrero, Maria Vivas Romero, Mark Dolman and Michel Dumontier (2022).** “FAIR begins at home: Implementing FAIR via the Community Data Driven Insights”.  <https://arxiv.org/abs/2303.07429>
- **Leyla Jael Castro, Thomas Pronk, C. Utrilla Guerrero and Jürgen Windeck (2023).** “Five Minutes to Write a Software Management Plan”.  <https://doi.org/10.5281/zenodo.6588450>
- **C. Utrilla Guerrero and V. Emonet (2022).** “Challenges and solutions towards building and visualising FAIR data for traditional games”. *Storytelling - DARIAH Annual Event. Athens, GR.*  <https://doi.org/10.5281/zenodo.6588450>

Selected Awards and Scholarships

2021: Research Fellowship grant in the national infrastructure CLARIAH Research Fellows 2021. *Budget 15K euros*





2013: Leonardo Da Vinci Global Scholarship from Spain’s Ministry of Education

Volunteer Experience

2010: European Volunteer Service (7 months) - Türkiye I.S.I. Tme Engelliler Spor Federasyonu, Ankara, TR

Presentations and Talks

Invited talks and conferences:

- **2023:** Machine-actionable Software Management Plans Mini-Hackathons, ZB Med in Cologne, (DE) –  [Web](#)
- **2023:** Teaching Reproducible Research and Open Science Conference, Sheffield University, (UK) –  [Web](#)
- **2022:** Storytelling - DARIAH Annual Event 2022, Athens, (GR) –  [Material](#)
- **2022:** Metadata 4 DKE 2022, Lyon, (FR) – <https://cost-dkg.github.io/metadata4dkg2022/>
- **2022:** FAIR Coffee Lectures, Maastricht, (NL) –  [Material](#)

Workshops:

- **2024:** Workshop on GenAI for research software at TU Delft. <https://zenodo.org/records/11492084>
- **2021:** Workshop on FAIR Essentials. <https://github.com/MaastrichtU-IDS/fair-workshop>
- **2021:** Workshop on semantic web - DOAP <https://github.com/MaastrichtU-IDS/doap-workshop>
- **2021:** Coding for researchers in Python <https://github.com/MaastrichtU-IDS/coding4all>

Interests

Sports: Tennis, Padel, Swimming

Others: Open source enthusiast, Traveling, History and Cooking