

# Carlos Utrilla Guerrero

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🌐 https://carlosug.github.io/

## Education

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

## Research Interests

Open-source scientific research software, large language models, semantic web and medical informatics

## 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

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

## Research Projects and Activities

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### 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

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**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

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- **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/10.1007/978-3-031-65794-88>
- **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

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**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





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

## Presentations and Talks

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### 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

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**Sports:** Tennis, Padel, Swimming

**Others:** Open source enthusiast, Traveling, History and Cooking