

c v n CURRÍCULUM VITAE NORMALIZADO



Daniel Garijo Verdejo

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Daniel Garijo Verdejo is a Distinguished Researcher at the Ontology Engineering Group of the Universidad Politécnica de Madrid, currently holding a Beatriz Galindo Award (2021-2025). Previously, he held a research Computer Scientist position at the Information Sciences Institute of the University of Southern California, in Los Angeles, where he also had postdoctoral position between 2016 and 2018.

Daniel graduated from his PhD on Artificial intelligence (extraordinary award, 2015) at the Ontology Engineering Group of the Polytechnic University of Madrid. His PhD (2011-2015) was funded by a FPU scholarship of the Spanish government (2011). During this time, he completed three internships at the Information Sciences Institute that shaped his line of research and fostered his collaborations with researchers from other institutions in the US. Back in Spain, Daniel also collaborated with European project partners from the UK and Germany that boosted the international visibility of his work. In addition, Daniel has participated in community initiatives such as W3C standardization processes (e.g., Provenance Incubator Group, Provenance Working Group) and the Dublin Core Metadata Initiative.

Daniel's line of research focuses on the area of e-Science, in particular on capturing the context and metadata of scientific software and computational experiments to foster their (re)usability. In order to do so, all the elements belonging to an experiment are converted to Knowledge Graphs and exposed as Linked Data. Important contributions derive from this line of research:

- 1) Generation of semantic models and contribution to standards to represent the metadata and context of all resources (data, software and methods) associated with a scientific research experiment
- 2) Methodologies and frameworks for detecting commonalities among scientific experiments and fostering their reusability.
- 3) Frameworks for automatically capturing, exploiting and publishing scientific software metadata and its associated results.
- 4) Means to improve the explainability of experiments by automatically creating narratives of their results

As a result of his work and international visibility, Daniel has published in top conferences of his area of research (International Conference of the Association for the Advancement of Artificial Intelligence (AAAI), International Semantic Web Conference (ISWC), International Conference on Intelligent User Interfaces (IUI), International Conference on eScience, etc.) and has been an invited speaker at universities all over the world (Stanford, Hawaii, Austin, Amsterdam, London, etc.). In addition, he has been invited to three different Dagstuhl seminars



(on provenance, reproducibility and scientific software respectively) to discuss about the future of a research topic/area.

Daniel has collaborated with researchers from multiple disciplines, ranging from Astronomy to Geosciences, and supervised over 25 undergraduate, graduate and master students that have worked under him in national and international projects.

Daniel has also been heavily involved with the scientific community, having organized workshops for scientific knowledge capture (International workshop on Capturing Scientific Knowledge (SciKnow), International Workshop on Enabling Open Semantic Science (SemSci2018)) and reproducible AI (AAAI 2020 Workshop on Reproducible AI - RAI2020) at the top conferences of his field. He also has held several organizational roles at these events (Treasurer at K-CAP 2017, Workshop and Tutorial Chair at K-CAP 2019, Poster and Demo Chair at ESWC 2020, Knowledge Graph Chair at K-CAP 2021) and is part of the program committee of the most relevant conferences in his field (WWW, ISWC, AAI, K-CAP, ESWC, IJCAI)



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

According to Google Scholar: 4436 citations; H-Index: 28; I-10 Index: 59. <https://scholar.google.es/citations?user=meb5L6oAAAAJ&hl=es>

According to Scopus: 1636 citations; H-Index: 19; <https://www.scopus.com/authid/detail.uri?authorId=54405468800>

Citations between 2019-2023: 2861 (Google scholar); 1242 (Scopus)

Q1 Journals: 6

Q2 Journals: 5

Q3 Journals: 4

Publications in GII-GRIN-SCIE conferences:

Class 1 (A, A++): 4 [Association for the Advancement of Artificial Intelligence (AAAI):1, International Semantic Web Conference (ISWC): 3]

Class 2 (A, A-): 6 [Intelligent User Interfaces (IUI): 2, Pacific Symposium on Biocomputing (PSB): 1, Knowledge Capture (K-CAP): 3]

Publications in workshops co-located with GII-GRIN-SCIE conferences:

Class 1 (A, A++): 5 [Very Large Data Bases (VLDB):1, International Conference on Machine Learning (ICM): 1, The Web Conference (WWW):1, Extending Database Technology (EDBT): 1, International Semantic Web Conference (ISWC):1]

Class 2 (A, A-): 4 [Knowledge Capture (K-CAP):4]

Other relevance criteria:

- MIT Journals: 1,
- ACM Journals: 2
- Dagstuhl Manifestos: 1



- eScience: 5. The eScience conference, despite being rated as B due to its inter-disciplinary nature, is a very significant venue for my area of research.
- My software has received over 150 stars in GitHub: <https://github.com/dgarijo/>
- W3C standard recommendations: 3

Publons profile (reviews): <https://publons.com/researcher/1215251/daniel-garijo/>



Daniel Garijo Verdejo

Surname(s): **Garijo Verdejo**
 Name: **Daniel**
 DNI: **53620518C**
 ORCID: **0000-0003-0454-7145**
 ScopusID: **54405468800**
 Date of birth: **31/01/1986**
 Gender: **Male**
 Land line phone: **(34) 913527815**
 Email: **dgarijov@gmail.com**
 Mobile phone: **(34) 667949892**
 Personal web page: **http://dgarijo.com**

Current professional situation

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University

Department: Artificial Intelligence, ETSI Ingenieros Informáticos

Professional category: Distinguished researcher

City employing entity: Madrid, Community of Madrid, Spain

Email: daniel.garijo@upm.es

Start date: 01/03/2021

Type of contract: Temporary employment contract **Dedication regime:** Full time

Primary (UNESCO code): 330400 - Computer technology

Performed tasks: Beatriz Galindo researcher: write proposals, give lectures and talks about ongoing research, mentor students, write research publications for workshops, conferences and journals, work on research projects, advance current line of research

Identify key words: Information technology and adata processing

Previous positions and activities

	Employing entity	Professional category	Start date
1	Information Sciences Institute	Computer Scientist	01/07/2018
2	Information Sciences Institute	Postdoc	01/09/2016
3	Universidad Politécnica de Madrid	Estudiante de doctorado	01/09/2011

1 **Employing entity:** Information Sciences Institute **Type of entity:** University Research Institute
Professional category: Computer Scientist
Start-End date: 01/07/2018 - 01/03/2021 **Duration:** 2 years

2 **Employing entity:** Information Sciences Institute **Type of entity:** University Research Institute
Professional category: Postdoc
Start-End date: 01/09/2016 - 01/07/2018 **Duration:** 2 years



- 3** **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University
Professional category: Estudiante de doctorado
Start-End date: 01/09/2011 - 15/12/2016 **Duration:** 5 years



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1 **University degree:** Higher degree
Name of qualification: Master en Inteligencia Artificial
Degree awarding entity: Universidad Politécnica de Madrid **Type of entity:** University
Date of qualification: 01/02/2011
- 2 **University degree:** Higher degree
Name of qualification: Ingeniería Superior en Informática
Degree awarding entity: Universidad Complutense de Madrid **Type of entity:** University
Date of qualification: 01/06/2009

Doctorates

Doctorate programme: Doctor en Inteligencia Artificial
Degree awarding entity: Universidad Politécnica de Madrid **Type of entity:** University
Date of degree: 22/12/2015

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	B2	B2	B1	B1	B1
English	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 **Type of teaching:** Official teaching
Name of the course: Inteligencia Artificial y Ciencia Abierta en Ingeniería del Software Científico
Type of programme: Technical engineering **Type of teaching:** In person theory
University degree: Grado en Ingeniería Informática
Start date: 01/02/2023 **End date:** 20/06/2023
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 12

**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**2 Type of teaching:** Official teaching**Name of the course:** Fundamentos de la Investigación**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Master Universitario en Ciencia de Datos**Start date:** 01/09/2022**End date:** 20/12/2022**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 6**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**3 Type of teaching:** Official teaching**Name of the course:** Open Data and Knowledge Graphs**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Master Universitario en Ciencia de Datos**Start date:** 01/09/2022**End date:** 20/12/2022**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 16**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**4 Type of teaching:** Official teaching**Name of the course:** Web Semántica, Linked Data y Grafos de Conocimiento**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Grado en Ciencia de Datos e Inteligencia Artificial**Start date:** 01/09/2022**End date:** 20/12/2022**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 12**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**5 Type of teaching:** Official teaching**Name of the course:** Web Semántica, Linked Data y Grafos de Conocimiento**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Grado en Ingeniería Informática**Start date:** 01/09/2022**End date:** 20/12/2022**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 24**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**6 Type of teaching:** Official teaching**Name of the course:** DATA SCIENCE SEMINARS**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Master Universitario en Ciencia de Datos**Start date:** 01/06/2022**End date:** 20/12/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 5**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**7 Type of teaching:** Official teaching**Name of the course:** Ciencia en la Web**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Master Universitario en Inteligencia Artificial

**Start date:** 01/09/2021**End date:** 20/12/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 2**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**8** **Type of teaching:** Official teaching**Name of the course:** Datos Abiertos y Grafos de Conocimiento**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Master Universitario en Ciencia de Datos**Start date:** 01/09/2021**End date:** 20/12/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 18**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**9** **Type of teaching:** Official teaching**Name of the course:** Ingeniería Ontológica**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Master Universitario en Inteligencia Artificial**Start date:** 01/09/2021**End date:** 20/12/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 8**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**10** **Type of teaching:** Official teaching**Name of the course:** Web Semántica, Linked Data y Grafos de Conocimiento**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Grado en Ingeniería Informática**Start date:** 01/09/2021**End date:** 20/12/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 24**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**11** **Type of teaching:** Official teaching**Name of the course:** Seminarios de Ciencia de Datos (Inglés)**Type of programme:** Technical engineering**Type of teaching:** In person theory**University degree:** Máster Universitario en Ciencia de Datos**Start date:** 15/04/2021**End date:** 15/04/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 3**Entity:** Universidad Politécnica de Madrid**Type of entity:** University**12** **Name of the course:** DSCI 560 - Data Science Professional Practicum**University degree:** Data Science Program**Start date:** 01/09/2020**End date:** 16/12/2020**Type of hours/ ECTS credits:** Credits**Hours/ECTS credits:** 4**Entity:** University of Southern California**Type of entity:** University



Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Creación de un Grafo de Conocimiento para Agrupar Nombres de Herramientas Similares
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Hector López Valero
Date of reading: 05/06/2023
- 2** **Project title:** Creación de un Portal a partir de los Proyectos de Software de una Organización
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Daniel Rodriguez Mariblanca
Date of reading: 02/06/2023
- 3** **Project title:** Extracción y Representación Automática de Metadatos en Jupyter Notebooks
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Daniel Rofriguez Rodriguez
Date of reading: 20/05/2023
- 4** **Project title:** Creation of a framework for the monitoring and adoption of good Open Science practices in software repositories
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Miguel Arroyo Marquez
Date of reading: 30/01/2023
- 5** **Project title:** Creación de un framework para comparar proyectos de software científico similares
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Javier Prieto Recio
Date of reading: 20/01/2023
- 6** **Project title:** Creación de Grafos de Conocimiento a Partir de Código de Software Científico en Distintos Lenguajes de Programación
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Jose Alberto Cañibano López
Date of reading: 20/11/2022
- 7** **Project title:** Detección de Agradecimientos en Proyectos Software
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: David Martín Matamala
Date of reading: 20/11/2022
- 8** **Project title:** Métrica, Método y Herramienta para la validación del grado de FAIRness de un Research Object
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Alejandro Benitez Lopez
Date of reading: 01/07/2022
- 9** **Project title:** A methodology for research software classification
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Jenifer Tabita Ciuciu-Kiss
Date of reading: 20/06/2022



- 10** **Project title:** Topic modeling for research software
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: María Ayuso
Date of reading: 20/06/2022
- 11** **Project title:** Creación de un Grafo de Conocimiento Usando Extracción de Relaciones a partir de Entidades Nombradas Extraídos de Archivos Readme
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Andres Cardozo Blanco
Date of reading: 02/06/2022
- 12** **Project title:** Creación de una Aplicación para la Generación de Objetos de Investigación a partir de Meta-datos Mínimos
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Floriana Antonia Pavel
Date of reading: 02/06/2022
- 13** **Project title:** Extracción de Entidades Nombradas a Partir de la Documentación del Software
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Marco Antonio Da Silva Santucci
Date of reading: 20/05/2022
- 14** **Project title:** SALTbot: Creación de un Bot para Enlazar Artículos y Software en WikiData
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Jorge Bolinches Segovia
Date of reading: 20/05/2022
- 15** **Project title:** Creación de un Sistema para Autocompletar Archivos README
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Javier de Toro Carrilero
Date of reading: 30/01/2022
- 16** **Project title:** Creación de un Servicio Web para Extracción de Metadatos de Software
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Victor Fernandez-Lancha Aranda
Date of reading: 20/12/2021

Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Tutorial
Name of the event: Linking, Extending, Exploiting and Enhancing Tabular Data with Wikidata
Organising entity: University of Southern California **Type of entity:** University
Hours of teaching: 2
Teaching date: 19/11/2019
- 2** **Type of event:** Seminar
Name of the event: The Scientific Paper of the Future
Organising entity: Universidad Pontificia Bolivariana
Hours of teaching: 3
Teaching date: 26/09/2018



- 3** **Type of event:** Seminar
Name of the event: The Scientific Paper of the Future for Environmental Research
Organising entity: University of New Mexico
Hours of teaching: 3
Teaching date: 12/06/2018
- 4** **Type of event:** Seminar
Name of the event: The Scientific Paper of the Future for Environmental Research
Organising entity: University of Southern California
Hours of teaching: 3
Teaching date: 12/04/2018
- 5** **Type of event:** Seminar
Name of the event: The Scientific Paper of the Future
Organising entity: University of Southern California
Hours of teaching: 3
Teaching date: 06/04/2018
- 6** **Type of event:** Seminar
Name of the event: The Scientific Paper of the Future for Environmental Research
Organising entity: University of Southern California
Hours of teaching: 3
Teaching date: 15/02/2018
- 7** **Type of event:** Seminar
Name of the event: Semantic Web and Ontologies: a Brief Introduction
Organising entity: University of Texas at Austin **Type of entity:** University
Teaching date: 2018
- 8** **Type of event:** Seminar
Name of the event: The Scientific Paper of the Future
Organising entity: University of Southern California
Hours of teaching: 3
Teaching date: 31/08/2017
- 9** **Type of event:** Tutorial
Name of the event: The Scientific Paper of the Future
Organising entity: AAAI
Hours of teaching: 3
Teaching date: 04/02/2017
- 10** **Type of event:** Seminar
Name of the event: The Scientific Paper of the Future
Organising entity: Stanford University
Hours of teaching: 3
Teaching date: 03/10/2016
- 11** **Type of event:** Conference
Name of the event: PROV-O: The W3C Provenance Ontology Tutorial
Organising entity: Dublin Core



Hours of teaching: 3
Teaching date: 09/2013

- 12** **Type of event:** Conference
Name of the event: From Preserving Data to Preserving Context (Tutorial)
Organising entity: TPDL
Hours of teaching: 1
Teaching date: 2013

Educational or pedagogical publications, books, articles, etc.

Michael Guerzhoy; Marion Neumann; Emmanuel Johnson; David Johnson; Henry Chai; Daniel Garijo; Zhuoyue Lyu; Christopher J MacLellan. EAAI-22 Blue Sky Ideas in Artificial Intelligence Education from the AAAI/ACM SIGAI New and Future AI Educator Program, AI Matters. 8 - 2, pp. 16 - 21. ACM. 23/11/2022.

Name of the materials: EAAI-22 Blue Sky Ideas in Artificial Intelligence Education from the AAAI/ACM SIGAI New and Future AI Educator Program

Format: Article(s)

Corresponding author: No

Participation in innovative teaching projects

- 1** **Project title:** European Engineering Learning Innovation and Science Alliance
Type of participation: Team member
Funding entity: Comisión Europea **Type of entity:** Comisión Europea
Start-End date: 01/11/2020 - 31/10/2023
- 2** **Project title:** Mastering Ontology development: A practical approach MOOC
Type of participation: Team member
Funding entity: Universidad Politécnica de Madrid **Type of entity:** University

Other activities/achievements not included above

- 1** **Description of the activity:** Research Experiences for Undergraduates program
Organising entity: National Sciences Foundation **Type of entity:** Public Research Body
End date: 01/09/2019
- 2** **Description of the activity:** Jury of master thesis: Reproducibility of Computational Environments for Scientific Experiments Using Container-Based Virtualization
Organising entity: Universidad Tecnica Federico de Santa Maria **Type of entity:** University
End date: 12/2018
- 3** **Description of the activity:** Student mentoring: CSCI401
Organising entity: University of Southern California **Type of entity:** University
End date: 2018



- 4 Description of the activity:** Summer interns: Student supervision and mentoring
Organising entity: Information Sciences Institute **Type of entity:** University Research Institute
End date: 2018
- 5 Description of the activity:** Student mentoring: CSCI 401
Organising entity: University of Southern California **Type of entity:** University
End date: 2017
- 6 Description of the activity:** Summer interns: Student supervision and mentoring
Organising entity: Information Sciences Institute **Type of entity:** University Research Institute
End date: 2017

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** INESData: Infraestructura para la Investigación de Espacios de Datos distribuidos en UPM
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
Start-End date: 01/01/2023 - 30/06/2025
- 2 Name of the project:** FAIR-IMPACT
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
Name principal investigator (PI, Co-PI....): Oscar Corcho García
Nº of researchers: 3
Start-End date: 01/06/2022 - 31/05/2025
Total amount: 333.125 €
- 3 Name of the project:** SolChem 5.0: Hacia una transición digital en Química Solar. Ciencia Abierta e Inteligencia Artificial
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Spain
Start-End date: 01/12/2022 - 30/11/2024
- 4 Name of the project:** AYUDAS PARA LA REALIZACION DE PROYECTOS DE I+D PARA JOVENES INVESTIGADORES (CREACIÓN DE UN OBSERVATORIO DE BUENAS PRÁCTICAS PARA EL ANÁLISIS Y ENLAZADO DE SOFTWARE CIENTÍFICO)
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
Nº of researchers: 1
Start-End date: 01/07/2022 - 30/06/2024
Total amount: 40.000 €



- 5** **Name of the project:** Towards a Research Software Understanding Framework for Open Science
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
Start-End date: 01/12/2022 - 31/12/2023
Total amount: 88.856 €
- 6** **Name of the project:** Accelerating Scientific workflowS using EarthCube Technologies (ASSET)
Entity where project took place: Information Sciences Institute
City of entity: Los Angeles, United States of America
Funding entity or bodies: National Science Foundation
City funding entity: United States of America
Start date: 2018
- 7** **Name of the project:** Accelerating Scientific workflowS using EarthCube Technologies (ASSET)
Entity where project took place: Information Sciences Institute **Type of entity:** University Research Institute
City of entity: Los Angeles, United States of America
Funding entity or bodies: National Science Foundation **Type of entity:** State agency
City funding entity: United States of America
Start date: 2018
- 8** **Name of the project:** Model Integration (MINT)
Entity where project took place: Information Sciences Institute **Type of entity:** University Research Institute
City of entity: Los Angeles, United States of America
Funding entity or bodies: DARPA **Type of entity:** State agency
City funding entity: Washington, United States of America
Start date: 2018
- 9** **Name of the project:** Data Scientist in a Box (DS-Box)
Entity where project took place: Information Sciences Institute **Type of entity:** University Research Institute
City of entity: Los Angeles, United States of America
Funding entity or bodies: DARPA **Type of entity:** State agency
City funding entity: United States of America
Start date: 01/09/2017
- 10** **Name of the project:** DISK: Automated Discovery of Scientific Knowledge
Entity where project took place: Information Sciences Institute **Type of entity:** University Research Institute
City of entity: Los Angeles, United States of America
Funding entity or bodies: National Science Foundation **Type of entity:** State agency
City funding entity: United States of America
Start date: 01/02/2016



11 Name of the project: Linked Earth
Entity where project took place: Information Sciences Institute **Type of entity:** University Research Institute
City of entity: Los Angeles, United States of America
Funding entity or bodies: National Sciences Foundation
City funding entity: United States of America
Start date: 01/02/2016

12 Name of the project: OntoSoft
Entity where project took place: Information Sciences Institute **Type of entity:** University Research Institute
City of entity: Los Angeles, United States of America
Funding entity or bodies: National Sciences Foundation **Type of entity:** State agency
City funding entity: United States of America
Start date: 02/01/2016

13 Name of the project: Otalex
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Start date: 15/12/2015

14 Name of the project: Wf4Ever
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Funding entity or bodies: European Union
Start date: 01/12/2010

15 Name of the project: Web N+1
Entity where project took place: Universidad Politécnica de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Start date: 04/01/2009



Results

Industrial and intellectual property

- 1 Title registered industrial property:** vocab.linkeddata
Inventors/authors/obtainers: Daniel Garijo Verdejo; María Poveda Villalón; Oscar Corcho García; Asunción Gómez Pérez
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: M-002677/2021
Country of inscription: Spain, Community of Madrid
Date of register: 17/09/2021
Operating aut.region/region: Spain

- 2 Title registered industrial property:** WIDOCO: A Wizard for DOCUMENTING Ontologies
Inventors/authors/obtainers: Daniel Garijo Verdejo
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: M-002676/2021
Country of inscription: Spain
Date of register: 16/09/2021
Operating aut.region/region: Spain

- 3 Title registered industrial property:** OnToology
Inventors/authors/obtainers: Ahmad Alobaid; Daniel Garijo; Maria Poveda Villalon; Idafen Santana Perez; Oscar Corcho
Entity holder of rights: Universidad Politécnica de Madrid
Nº of application: M-001103/2020
Country of inscription: Spain, Community of Madrid
Date of register: 2019

Scientific and technological activities

Scientific production

H index: 28

Date of application: 18/09/2023

Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** Timo Schaffhauser; Daniel Garijo; Maximiliano Osorio; Daniel Bittner; Suzanne Pierce; Hernán Vargas; Markus Disse; Yolanda Gil. A framework for the broad dissemination of hydrological models for non-expert users. *Environmental Modelling & Software*. pp. 105695 - 105695. 2023. Available on-line at: <https://dgarijo.com/papers/MINT_MIC_Paper_Submitted.pdf>. ISSN 1364-8152
Type of production: Scientific paper **Format:** Journal
- 2** Michael Guerzhoy; Marion Neumann; Emmanuel Johnson*; David Johnson; Henry Chai; Daniel Garijo; Zhuoyue Lyu; Christopher J. MacLellan. EAAI-22 Blue Sky Ideas in Artificial Intelligence Education from the AAAI/ACM SIGAI New and Future AI Educator Program. *AI Matters*. 8 - 2, pp. 16–21 - 16–21. Association for Computing Machinery, 11/2022. Available on-line at: <<https://doi.org/10.1145/3557785.3557789>>.
Type of production: Scientific paper **Format:** Journal
- 3** Daniel Garijo; Hervé Ménager; Lorraine Hwang; Ana Trisovic; Michael Hucka; Thomas Morrell; Alice Allen; {Task Force on Best Practices for Software Registries}; {SciCodes Consortium}. Nine best practices for research software registries and repositories. *PeerJ Computer Science*. 8, pp. e1023 - e1023. 08/2022. Available on-line at: <https://dgarijo.com/papers/nine_best_practices.pdf>. ISSN 2376-5992
Type of production: Scientific paper **Format:** Journal
- 4** Kartik Shenoy; Filip Ilievsky; Daniel Schwabe; Daniel Garijo Verdejo; Pedro Szekely. A Study of the Quality of Wikidata. *Journal of Web Semantics*. 100679, Elsevier, 04/01/2022. ISSN 1570-8268
DOI: 10.1016/j.websem.2021.100679.
Type of production: Scientific paper **Format:** Journal
Impact source: SCOPUS **Category:** Artificial Intelligence
Impact index in year of publication: 1.897 (Q3) **Journal in the top 25%:** No
Position of publication: 96 **No. of journals in the cat.:** 139
- 5** Stian Soiland-Reyes; Peter Sefton; Merce Crosas; Leyla Jael Castro; Frederik Coppens; Marc Portier; José María Fernández; Daniel Garijo; Bjorn Gruning; Marco La Rosa; Simone Leo; Eoghan O Carragain; Ana Trisovic; Paul Groth; Carole Goble. Packaging research artefacts with RO-Crate. *Data Science*. pp. 1 - 42. IOS Press, 04/01/2022.
DOI: 10.3233/DS-210053
Type of production: Scientific paper **Format:** Journal
- 6** Daniel Garijo Verdejo; Aidan Kelley. A framework for creating knowledge graphs of scientific software metadata. *Quantitative Science Studies*. 2 - 4, pp. 1423 - 1446. 01/01/2022. ISSN 2641-3337
DOI: 10.1162/qss_a_00167
Type of production: Scientific paper **Format:** Journal



- 7** Maximiliano Osorio; Carlos Buil Aranda; Idafen Santana Perez; Daniel Garijo. DockerPedia: A Knowledge Graph of Software Images and Their Metadata. International Journal of Software Engineering and Knowledge Engineering. 32 - 1, pp. 71 - 89. World Scientific Publishing Company, 2022. ISSN 0218-1940
DOI: 10.1142/S0218194022500036
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 1.47 (Q3)
Position of publication: 72
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - COMPUTER SCIENCE, SOFTWARE ENGINEERING
Journal in the top 25%: No
No. of journals in the cat.: 108
- 8** Maria Navas-Loro; Daniel Garijo; Oscar Corcho. Multi-label text classification for public procurement in spanish. Procesamiento del Lenguaje Natural. 69, pp. 73 - 82. 2022.
Type of production: Scientific paper
Format: Journal
- 9** Yolanda Gil; Daniel Garijo; Deborah Khider; Craig A. Knoblock; Varun Ratnakar; Maximiliano Osorio; Hernán Vargas; Minh Pham; Jay Pujara; Basel Shbita; Binh Vu; Yao-Yi Chiang; Dan Feldman; Yijun Lin; Hayley Song; Vipin Kumar; Ankush Khandelwal; Michael Steinbach; Kshitij Tayal; Shaoming Xu; Suzanne A. Pierce; Lissa Pearson; Daniel Hardesty-Lewis; Ewa Deelman; Rafael Ferreira Da Silva; Rajiv Mayani; Armen R. Kemanian; Yuning Shi; Lorne Leonard; Scott Peckham; Maria Stoica; Kelly Cobourn; Zeya Zhang; Christopher Duffy; Lele Shu. Artificial Intelligence for Modeling Complex Systems: Taming the Complexity of Expert Models to Improve Decision Making. ACM Trans. Interact. Intell. Syst. 11 - 2, Association for Computing Machinery, 07/2021. ISSN 2160-6455
Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 2.137 (Q3)
Position of publication: 85
Format: Journal
Category: Artificial Intelligence
Journal in the top 25%: No
No. of journals in the cat.: 139
- 10** Paola Espinoza-Arias; Daniel Garijo; Oscar Corcho. Crossing the chasm between ontology engineering and application development: A survey. Journal of Web Semantics. 70, pp. 100655 - 100655. 2021. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S1570826821000305>>. ISSN 1570-8268
Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 1.897 (Q3)
Position of publication: 96
Format: Journal
Category: Artificial Intelligence
Journal in the top 25%: No
No. of journals in the cat.: 139
- 11** Daniel Garijo; Natalia Villanueva-Rosales; Tomi Kauppinen. Special issue on Semantic eScience: Methods, tools and applications. Semantic Web Journal. 11 - 5, pp. 731 - 733. IOS Press, 25/08/2020.
DOI: 10.3233/SW-200380
Type of production: Scientific paper
Degree of contribution: Editor or co-editor
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 2.214 (Q2)
Position of publication: 36
Format: Journal
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: No
No. of journals in the cat.: 110



- 12** The genetic architecture of the human cerebral cortex. *Science*. 367 - 6484, 20/03/2020.
DOI: 10.1126/science.aay6690
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 41.037 (Q1)
Format: Journal
Category: Cellular and Molecular Neuroscience
Journal in the top 25%: Yes
- 13** Paul M. Thompson; Neda Jahanshad; Christopher R. K. Ching; Lauren E. Salminen; Sophia I. Thomopoulos; Joanna Bright; Bernhard T. Baune; Sara Bertolín; Janita Bralten; Willem B. Bruin; Robin Bülow; Jian Chen; Yann Chye; Udo Dannlowski; Carolien G. F. de Kovel; Gary Donohoe; Lisa T. Eyler; Stephen V. Faraone; Pauline Favre; Courtney A. Filippi; Thomas Frodl; Daniel Garijo; Yolanda Gil; Hans J. Grabe; Katrina L. Grasby; Tomas Hajek; Laura K. M. Han; Sean N. Hatton; Kevin Hilbert; Tiffany C. Ho; Laurena Holleran; Georg Homuth; Norbert Hosten; Josselin Houenou; Iliyan Ivanov; Tianye Jia; Sinead Kelly; Marieke Klein; Jun Soo Kwon; Max A. Laansma; Jeanne Leerssen; Ulrike Lueken; Abraham Nunes; Joseph O' Neill; Nils Opel; Fabrizio Piras; Federica Piras; Merel C. Postema; Elena Pozzi; Natalia Shatikhina; Carles Soriano-Mas; Gianfranco Spalletta; Daqiang Sun; Alexander Teumer; Amanda K. Tilot; Leonardo Tozzi; Celia van der Merwe; Eus J. W. Van Someren; Guido A. van Wingen; Henry Völzke; Esther Walton; Lei Wang; Anderson M. Winkler; Katharina Wittfeld; Margaret J. Wright; Je-Yeon Yun; Guohao Zhang; Yanli Zhang-James; Bhim M. Adhikari; Ingrid Agartz; Moji Aghajani; André Aleman; Robert R. Althoff; Andre Altmann; Ole A. Andreassen; David A. Baron; Brenda L. Bartnik-Olson; Janna Marie Bas-Hoogendam; Arielle R. Baskin-Sommers; Carrie E. Bearden; Laura A. Berner; Premika S. W. Boedhoe; Rachel M. Brouwer; Jan K. Buitelaar; Karen Caeyenberghs; Charlotte A. M. Cecil; Ronald A. Cohen; James H. Cole; Patricia J. Conrod; Stephane A. De Brito; Sonja M. C. de Zwarte; Emily L. Dennis; Sylvane Desrivieres; Danai Dima; Stefan Ehrlich; Carrie Esopenko; Graeme Fairchild; Simon E. Fisher; Jean-Paul Fouché; Clyde Francks; Sophia Frangou; Barbara Franke; Hugh P. Garavan; David C. Glahn; Nynke A. Groenewold; Tiril P. Gurholt; Boris A. Gutman; Tim Hahn; Ian H. Harding; Dennis Hernaus; Derrek P. Hibar; Frank G. Hillary; Martine Hoogman; Hilleke E. Hulshoff Pol; Maria Jalbrzikowski; George A. Karkashadze; Eduard T. Klapwijk; Rebecca C. Knickmeyer; Peter Kochunov; Inga K. Koerte; Xiang-Zhen Kong; Sook-Lei Liew; Alexander P. Lin; Mark W. Logue; Eileen Luders; Fabio Maciardi; Scott Mackey; Andrew R. Mayer; Carrie R. McDonald; Agnes B. McMahon; Sarah E. Medland; Gemma Modinos; Rajendra A. Morey; Sven C. Mueller; Pratik Mukherjee; Leyla Namazova-Baranova; Talia M. Nir; Alexander Olsen; Peristera Paschou; Daniel S. Pine; Fabrizio Pizzagalli; Miguel E. Rentería; Jonathan D. Rohrer; Philipp G. Sämann; Lianne Schmaal; Gunter Schumann; Mark S. Shiroishi; Sanjay M. Sisodiya; Dirk J. A. Smit; Ida E. Sønderby; Dan J. Stein; Jason L. Stein; Masoud Tahmasian; David F. Tate; Jessica A. Turner; Odile A. van den Heuvel; Nic J. A. van der Wee; Ysbrand D. van der Werf; Theo G. M. van Erp; Neeltje E. M. van Haren; Daan van Rooij; Laura S. van Velzen; Ilya M. Veer; Dick J. Veltman; Julio E. Villalon-Reina; Henrik Walter; Christopher D. Whelan; Elisabeth A. Wilde; Mojtaba Zarei; Vladimir Zelman. ENIGMA and global neuroscience: A decade of large-scale studies of the brain in health and disease across more than 40 countries. *Translational Psychiatry*. 10 - 1, pp. 100 - 100. 20/12/2019. Available on-line at: <<http://www.nature.com/articles/s41398-020-0705-1>>. ISSN 2158-3188
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5.182 (Q1)
Position of publication: 18
Format: Journal
Category: Cellular and Molecular Neuroscience
Journal in the top 25%: Yes
No. of journals in the cat.: 146
- 14** Carole Goble; Sarah Chohen-Boulaki; Stian Soiland-reyes; Daniel Garijo; Yolanda Gil; Michael R. Crusoe; Kristian Peters; Daniel Schober. FAIR Computational Workflows. *Data Intelligence*. pp. 108 - 121. MIT Press Journals, 06/07/2019.
Type of production: Scientific paper
Format: Journal
- 15** D. Khider; J. Emile-Geay; N. P. McKay; Y. Gil; D. Garijo; V. Ratnakar; M. Alonso-Garcia; S. Bertrand; O. Bothe; P. Brewer; A. Bunn; M. Chevalier; L. Comas-Bru; A. Csank; E. Dassié; K. DeLong; T. Felis; P. Francus; A. Frappier; W. Gray; S. Goring; L. Jonkers; M. Kahle; D. Kaufman; N. M. Kehrwald; B. Martrat; H. McGregor; J. Richey; A. Schmittner; N. Scropton; E. Sutherland; K. Thirumalai; K. Allen; F. Arnaud; Y. Axford; T. Barrows; L. Bazin; S. E. Pilaar Birch; E. Bradley; J. Bregy; E. Capron; O. Cartapanis; H.-W. Chiang; K. M. Cobb; M. Debret; R. Dommoin; J. Du; K. Dyez; S. Emerick; M. P. Erb; G. Falster; W. Finsinger; D. Fortier; Nicolas Gauthier; S. George; E. Grimm; J. Hertzberg; F. Hibbert; A. Hillman; W. Hobbs; M. Huber; A. L. C. Hughes; S.



Jaccard; J. Ruan; M. Kienast; B. Konecky; G. Le Roux; V. Lyubchich; V. F. Novello; L. Olaka; J. W. Partin; C. Pearce; S. J. Phipps; C. Pignol; N. Piotrowska; M.-S. Poli; A. Prokopenko; F. Schwanck; C. Stepanek; G. E. A. Swann; R. Telford; E. Thomas; Z. Thomas; S. Truebe; L. von Gunten; A. Waite; N. Weitzel; B. Wilhelm; J. Williams; J. J. Williams; M. Winstrup; N. Zhao; Y. Zhou. PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. *Paleoceanography and Paleoclimatology*. 34 - 10, pp. 1570 - 1596. 2019. Available on-line at: <<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2019PA003632>>.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Geophysics

Impact index in year of publication: 16.73 (Q1)

Journal in the top 25%: Yes

Position of publication: 1

No. of journals in the cat.: 84

- 16** Ahmad Alobaid; Daniel Garijo; Maria Poveda-Villalon; Idafen Santana-Perez; Alba Fernandez-Izquierdo; Oscar Corcho. Automating ontology engineering support activities with OnToology. *Journal of Web Semantics*. 2018. Available on-line at: <<http://dgarijo.com/papers/JWSsupporting.pdf>>. ISSN 1570-8268

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Artificial Intelligence

Impact index in year of publication: 1.07 (Q2)

- 17** Daniel Garijo. AI buzzwords explained: scientific workflows. *AI Matters*. 3 - 1, pp. 4 - 8. ACM, 2017. Available on-line at: <<http://dgarijo.com/papers/aibuzzword2017.pdf>>.

Type of production: Scientific paper

Format: Journal

- 18** Daniel Garijo; Yolanda Gil; Oscar Corcho. Abstract, link, publish, exploit: An end to end framework for workflow sharing. *Future Generation Computer Systems*. North-Holland, 2017. Available on-line at: <<http://dgarijo.com/papers/fgcs2017.pdf>>.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Computer Science (miscellaneous)

Impact index in year of publication: 4.639 (Q1)

Journal in the top 25%: Yes

Position of publication: 7

No. of journals in the cat.: 103

- 19** Alice Allen; Cecilia Aragon; Christoph Becker; Jeffrey Carver; Andrei Chis; Benoit Combemale; Mike Croucher; Kevin Crowston; Daniel Garijo; Ashish Gehani; Carole Goble; Robert Haines; Robert Hirschfeld; James Howison; Kathryn Huff; Caroline Jay; Daniel S. Katz; Claude Kirchner; Katie Kuksenok; Ralf Lammel; Oscar Nierstrasz; Matt Turk; Rob van Nieuwpoort; Matthew Vaughn; Jurgen J. Vinju. Engineering Academic Software (Dagstuhl Perspectives Workshop 16252). *Dagstuhl Manifestos*. 6 - 1, pp. 1 - 20. Schloss Dagstuhl--Leibniz-Zentrum fuer Informatik, 2017. Available on-line at: <<http://drops.dagstuhl.de/opus/volltexte/2017/7146>>. ISSN 2193-2433

Type of production: Scientific paper

Format: Journal

- 20** Janne Parkkila; Filip Radulovic; Daniel Garijo; Maria Poveda-Villalon; Jouni Ikonen; Jari Porras; Asuncion Gomez-Perez. An ontology for videogame interoperability. *Multimedia Tools and Applications*. 76 - 4, pp. 4981 - 5000. Springer US, 2016. Available on-line at: <<http://dgarijo.com/papers/vgo.pdf>>.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, SOFTWARE ENGINEERING

Impact index in year of publication: 2.1 (Q2)

Position of publication: 42

No. of journals in the cat.: 104

- 21** Khalid Belhajjame; Jun Zhao; Daniel Garijo; Matthew Gamble; Kristina Hettne; Raul Palma; Eleni Mina; Oscar Corcho; Jose Manuel Gomez-Perez; Sean Bechhofer; others. Using a suite of ontologies for preserving workflow-centric research objects. *Web Semantics: Science, Services and Agents on the World Wide Web*. 32, pp. 16 - 42. Elsevier, 2015. Available on-line at: <<http://dgarijo.com/papers/ros.pdf>>.

Type of production: Scientific paper

Impact source: SCOPUS

Impact index in year of publication: 1.27 (Q2)

Position of publication: 34

Format: Journal

Category: Science Edition - COMPUTER SCIENCE, SOFTWARE ENGINEERING

No. of journals in the cat.: 106

- 22** Daniel Garijo; Pinar Alper; Khalid Belhajjame; Oscar Corcho; Yolanda Gil; Carole Goble. Common motifs in scientific workflows: An empirical analysis. *Future Generation Computer Systems*. 36, pp. 338 - 351. North-Holland, 2014. Available on-line at: <<http://dgarijo.com/papers/fgcs-paper-motifs.pdf>>.

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2.78 (Q1)

Position of publication: 8

Format: Journal

Category: Computer Science (miscellaneous)

Journal in the top 25%: Yes

No. of journals in the cat.: 102

- 23** Daniel Garijo; Sarah Kinnings; Li Xie; Lei Xie; Yinliang Zhang; Philip E Bourne; Yolanda Gil. Quantifying reproducibility in computational biology: the case of the tuberculosis drugome. *PloS one*. 8 - 11, pp. e80278 - e80278. Public Library of Science, 2013. Available on-line at: <<http://dgarijo.com/papers/plos.pdf>>.

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.05 (Q1)

Format: Journal

Category: Computer Science (miscellaneous)

Journal in the top 25%: Yes

- 24** Ghislain Atemezing; Oscar Corcho; Daniel Garijo; Jose Mora; Maria Poveda-Villalon; Pablo Rozas; Daniel Vila-Suero; Boris Villazon-Terrazas. Transforming meteorological data into linked data. *Semantic Web*. 4 - 3, pp. 285 - 290. IOS Press, 2013. Available on-line at: <<http://dgarijo.com/papers/meteo.pdf>>.

Type of production: Scientific paper

Impact source: ISI

Format: Journal

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

- 25** Daniel Garijo; María Poveda-Villalón. Best Practices for Implementing FAIR Vocabularies and Ontologies on the Web. *Applications and Practices in Ontology Design, Extraction, and Reasoning*. 49, pp. 39 - 54. IOS Press, 12/02/2020. ISBN 978-1-64368-143-6

Type of production: Book chapter

Degree of contribution: Author or co-author of chapter in book

Format: Book

- 26** Neil P Chue Hong; Daniel S Katz; Michelle Barker; Anna-Lena Lamprecht; Carlos Martinez; Fotis E Psomopoulos; Jen Harrow; Leyla Jael Castro; Morane Gruenpeter; Paula Andrea Martinez; Daniel Garijo; others. FAIR principles for research software (FAIR4RS principles). *Research Data Alliance*. 2021.

DOI: <https://doi.org/10.15497/RDA00065>

Type of production: Scientific-technical report

Format: Journal

- 27** Daniel Garijo; Kai Eckert. Dublin Core to PROV Mapping. *W3C Working Group Note*. 04/2013. Available on-line at: <<http://www.w3.org/TR/2013/NOTE-prov-dc-20130430/>>.

Type of production: Scientific-technical report

Format: Scientific and technical document or report

- 28** Timothy Lebo; Satya Sahoo; Deborah McGuinness; Khalid Belhajjame; James Cheney; David Corsar; Daniel Garijo; Stian Soiland-Reyes; Stephan Zednik; Jun Zhao. PROV-O: The PROV ontology. *W3C recommendation*. 30, W3C, 2013. Available on-line at: <<https://www.w3.org/TR/2013/REC-prov-o-20130430/>>.

Type of production: Scientific-technical report

Format: Scientific and technical document or report



- 29** Simon Miles; Yolanda Gil; Khalid Belhajjame; Helena Deus; Daniel Garijo; Graham Klyne; Paolo Missier; Stian Soiland-Reyes; Stephen Zednik. Prov model primer. W3C recommendation. W3C, 2013. Available on-line at: <http://www.w3.org/TR/provprimer>.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report
- 30** K Belhajjame; G Klyne; D Garijo; O Corcho; E Garcia-Cuesta; R Palma. Wf4Ever research object model. 2013. Available on-line at: <http://wf4ever.github.io/ro>.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report
- 31** Yolanda Gil; James Cheney; PT Groth; Olaf Hartig; Simon Miles; Luc Moreau; P Pinheiro da Silva. Provenance xg final report. W3C Incubator Group Reports. W3C, 2010. Available on-line at: <https://www.w3.org/2005/Incubator/prov/XGR-prov-20101214/>.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report
- 32** Rafael Ferreira Da Silva; Rosa M. Badia; Venkat Bala; Debbie Bard; Peer-Timo Bremer; Ian Buckley; Silvina Caino-Lores; Kyle Chard; Carole Goble; Shantenu Jha; Daniel S. Katz; Daniel Laney; Manish Parashar; Frederic Suter; Nick Tyler; Thomas Uram; Ilkay Altintas; Stefan Andersson; William Arndt; Juan Aznar; Jonathan Bader; Bartosz Balis; Chris Blanton; Kelly Rosa Braghetto; Aharon Brodutch; Paul Brunk; Henri Casanova; Alba Cervera Lierta; Justin Chigu; Taina Coleman; Nick Collier; Iacopo Colonnelli; Frederik Coppens; Michael Crusoe; Will Cunningham; Bruno De Paula Kinoshita; Paolo Di Tommaso; Charles Doutriaux; Matthew Downton; Wael Elwasif; Bjoern Enders; Chris Erdmann; Thomas Fahringer; Ludmilla Figueiredo; Rosa Filgueira; Martin Foltin; Anne Fouilloux; Luiz Gadelha; Andy Gallo; Artur Garcia Saez; Daniel Garijo; Roman Gerlach; Ryan Grant; Samuel Grayson; Patricia Grubel; Johan Gustafsson; Valerie Hayot-Sasson; Oscar Hernandez; Marcus Hilbrich; {AnnMary Justine}; Ian Laffotte; Fabian Lehmann; Andre Luckow; Jakob Luettgau; Ketan Maheshwari; Motohiko Matsuda; Doriana Medic; Pete Mendygral; Marek Michalewicz; {Jorji Nonaka}; Maciej Pawlik; Loic Pottier; Line Pouchard; Mathias Putz; Santosh Kumar Radha; Lavanya Ramakrishnan; Sashko Ristov; Paul Romano; Daniel Rosendo; Martin Ruefenacht; Katarzyna Rycerz; {Nishant Saurabh}; Volodymyr Savchenko; Martin Schulz; Christine Simpson; Raul Sirvent; Tyler Skluzacek; Stian Soiland-Reyes; Renan Souza; Sreenivas Rangan Sukumar; Ziheng Sun; Alan Sussman; Douglas Thain; Mikhail Titov; Benjamin Tovar; Aalap Tripathy; Matteo Turilli; Bartosz Tuznik; Hubertus Van Dam; Aurelio Vivas; Logan Ward; Patrick Widener; Sean Wilkinson; Justyna Zawalska; {Mahnoor Zulfiqar}. Workflows Community Summit 2022: A Roadmap Revolution. Zenodo, 2023. Available on-line at: <https://zenodo.org/record/7750670>.
- 33** Neil P. Chue Hong; Daniel S. Katz; Michelle Barker; Anna-Lena Lamprecht; Carlos Martinez; Fotis E. Psomopoulos; Jen Harrow; Leyla Jael Castro; Morane Gruenpeter; Paula Andrea Martinez; Tom Honeyman; Alexander Struck; Allen Lee; Axel Loewe; Ben van Werkhoven; Catherine Jones; Daniel Garijo; Esther Plomp; Francoise Genova; Hugh Shanahan; Joanna Leng; Maggie Hellström; Malin Sandström; Manodeep Sinha; Mateusz Kuzak; Patricia Herterich; Qian Zhang; Sharif Islam; Susanna-Assunta Sansone; Tom Pollard; Udayanto Dwi Atmojo; Alan Williams; Andreas Czerniak; Anna Niehues; Anne Claire Fouilloux; Bala Desinghu; Carole Goble; Céline Richard; Charles Gray; Chris Erdmann; Daniel Nüst; Daniele Tartarini; Elena Ranguelova; Hartwig Anzt; Ilian Todorov; James McNally; Javier Moldon; Jessica Burnett; Julián Garrido-Sánchez; Khalid Belhajjame; Laurents Sesink; Lorraine Hwang; Marcos Roberto Tovani-Palone; Mark D. Wilkinson; Mathieu Servillat; Matthias Liffers; Merc Fox; Nadica Miljković; Nick Lynch; Paula Martinez Lavanchy; Sandra Gesing; Sarah Stevens; Sergio Martinez Cuesta; Silvio Peroni; Stian Soiland-Reyes; Tom Bakker; Tovo Rabemanantsoa; Vanessa Sochat; Yo Yehudi; RDA FAIR4RS WG. FAIR Principles for Research Software (FAIR4RS Principles). Zenodo, 05/2022. Available on-line at: <https://doi.org/10.15497/RDA00068>.



Works submitted to national or international conferences

- 1** **Title of the work:** Extending Ontology Engineering Practices to Facilitate Application Development
Name of the conference: Knowledge Engineering and Knowledge Management: 23rd International Conference, EKAW 2022
City of event: Bolzano, Italy
Date of event: 26/09/2022
End date: 29/09/2022
Organising entity: Springer
Type of contribution: Scientific book or monograph
Paola Espinoza-Arias; Daniel Garijo; Oscar Corcho. "Knowledge Engineering and Knowledge Management: 23rd International Conference, EKAW 2022, Bolzano, Italy, September 26--29, 2022, Proceedings". pp. 19 - 35. 20/09/2022.
- 2** **Title of the work:** FAIROs: Towards FAIR Assessment in Research Objects
Name of the conference: International Conference on Theory and Practice of Digital Libraries
City of event: Padua, Italy
Date of event: 20/09/2022
End date: 23/09/2022
Type of contribution: Scientific book or monograph
Esteban Gonzalez; Alejandro Benitez; Daniel Garijo. "Linking Theory and Practice of Digital Libraries". pp. 68 - 80. Springer International Publishing, 2022. ISBN 978-3-031-16802-4
- 3** **Title of the work:** inspect4py: a knowledge extraction framework for Python code repositories
Name of the conference: The 2022 Mining Software Repositories Conference
Corresponding author: Yes
City of event: Pittsburgh, United States of America
Date of event: 22/05/2022
Rosa Filgueira; Daniel Garijo. "inspect4py: a knowledge extraction framework for Python code repositories".
- 4** **Title of the work:** FOOPS!: An Ontology Pitfall Scanner for the FAIR Principles
Name of the conference: International Semantic Web Conference
Type of event: Conference
Corresponding author: Yes
Date of event: 2021
Type of contribution: Scientific paper
Daniel Garijo; Oscar Corcho; María Poveda-Villalón. "International Semantic Web Conference (ISWC) 2021: Posters, Demos, and Industry Tracks". En: International Semantic Web Conference (ISWC) 2021: Posters, Demos, and Industry Tracks. 2980, CEUR,
- 5** **Title of the work:** A Community Roadmap for Scientific Workflows Research and Development
Name of the conference: 2021 IEEE Workshop on Workflows in Support of Large-Scale Science (WORKS)
Date of event: 2021
Type of contribution: Scientific book or monograph
Rafael Ferreira da Silva; Henri Casanova; Kyle Chard; Ilkay Altintas; Rosa M Badia; Bartosz Balis; Tainã Coleman; Frederik Coppens; Frank Di Natale; Bjoern Enders; Thomas Fahringer; Rosa Filgueira; Grigori Fursin; Daniel Garijo; Carole Goble; Dorrán Howell; Shantenu Jha; Daniel S. Katz; Daniel Laney; Ulf Leser; Maciej Malawski; Kshitij Mehta; Loïc Pottier; Jonathan Ozik; J. Luc Peterson; Lavanya Ramakrishnan; Stian Soiland-Reyes; Douglas Thain; Matthew Wolf. "2021 IEEE Workshop on Workflows in Support of Large-Scale Science (WORKS)". pp. 81 - 90. 2021.



- 6** **Title of the work:** Mapping the Web Ontology Language to the OpenAPI Specification
Name of the conference: International Conference on Conceptual Modeling
Type of event: Conference
Date of event: 03/11/2020
Type of contribution: Scientific paper
Paola Espinoza-Arias; Daniel Garijo; Oscar Corcho. "Advances in Conceptual Modeling". 12584, pp. 117 - 127. Springer, Cham, 03/11/2020. Available on-line at: <https://link.springer.com/chapter/10.1007/978-3-030-65847-2_11>. ISBN 978-3-030-65847-2
- 7** **Title of the work:** OBA: An ontology-based framework for creating REST APIs for knowledge graphs
Name of the conference: conference: International Semantic Web Conference
Type of event: Conference
Corresponding author: Yes
Date of event: 01/11/2020
End date: 06/11/2020
Type of contribution: Scientific paper
Daniel Garijo; Maximiliano Osorio. 12507, pp. 48 - 64. Springer, Cham, ISBN 978-3-030-62466-8
- 8** **Title of the work:** KGTK: A Toolkit for Large Knowledge Graph Manipulation and Analysis
Name of the conference: International Semantic Web Conference
Date of event: 01/11/2020
End date: 06/11/2020
Type of contribution: Scientific book or monograph
Filip Ilievski; Daniel Garijo; Hans Chalupsky; Naren Teja Divvala; Yixiang Yao; Craig Rogers; Ronpeng Li; Jun Liu; Amandeep Singh; Daniel Schwabe; Pedro Szekely. "The Semantic Web -- ISWC 2020". pp. 278 - 293. Springer International Publishing, 2020. ISBN 978-3-030-62466-8
- 9** **Title of the work:** Coming to terms with FAIR ontologies
Name of the conference: International Conference on Knowledge Engineering and Knowledge Management
Type of event: Conference
Date of event: 16/09/2020
Organising entity: Springer, Cham
Type of contribution: Scientific paper
María Poveda-Villalón; Paola Espinoza-Arias; Daniel Garijo; Oscar Corcho. En: Lecture Notes in Computer Science. 12387, Springer, Cham, 16/09/2020.
- 10** **Title of the work:** A Template-Based Approach for Annotating Long-Tail Datasets
Name of the conference: Advances in Semantics and Linked Data: Joint Workshop Proceedings from ISWC 2020
Type of event: Workshop
Corresponding author: Yes
Date of event: 2020
Type of contribution: Scientific paper
Daniel Garijo; Ke-Thia Yao; Amandeep Singh; Pedro Szekely. "A Template-Based Approach for Annotating Long-Tail Datasets.". pp. 97 - 102. CEUR,
- 11** **Title of the work:** SoMEF: A framework for capturing scientific software metadata from its documentation
Name of the conference: 2019 IEEE International Conference on Big Data (Big Data)
Type of event: Conference
City of event: Los Angeles, United States of America



Date of event: 09/12/2019

End date: 12/12/2019

Organising entity: IEEE

Type of contribution: Scientific paper

Allen Mao; Daniel Garijo; Shobeir Fakhraei. "SoMEF: A framework for capturing scientific software metadata from its documentation". IEEE, 12/09/2019. ISBN 978-1-7281-0858-2

DOI: <https://doi.org/10.1109/BigData47090.2019.9006447>

- 12 Title of the work:** Semantic modelling of plans and execution traces for enhancing transparency of iot systems
Name of the conference: Sixth International Conference on Internet of Things: Systems, Management and Security (IOTSMS)
Type of event: Conference
City of event: Granada, Andalusia, Spain
Date of event: 22/10/2019
End date: 25/10/2019
Type of contribution: Scientific paper
Milan Markovic; Daniel Garijo; Peter Edwards. IEEE, Available on-line at: <https://ieeexplore.ieee.org/abstract/document/8939260>. ISBN 978-1-7281-2949-5
DOI: 10.1109/IOTSMS48152.2019.8939260
- 13 Title of the work:** Linking abstract plans of scientific experiments to their corresponding execution traces
Name of the conference: Proceedings of the Third International Workshop on Capturing Scientific Knowledge (Sciknow 2019)
Date of event: 21/10/2019
Organising entity: ACM
Milan Markovic; Daniel Garijo; Peter Edwards. CEUR-WS, Available on-line at: https://aura.abdn.ac.uk/bitstream/handle/2164/13408/Markovic_LinkingAbstractPlans_VOR.pdf.
- 14 Title of the work:** OKG-Soft: An Open Knowledge Graph with Machine Readable Scientific Software Metadata
Name of the conference: Fifteen IEEE International Conference on eScience
Corresponding author: Yes
City of event: San Diego, United States of America
Date of event: 24/09/2019
End date: 27/09/2019
Organising entity: ACM
Type of contribution: Scientific book or monograph
Daniel Garijo; Maximiliano Osorio; Deborah Khider; Varun Ratnakar; Yolanda Gil. "To appear in Proceedings of the Fifteen IEEE International Conference on eScience". 2019. Available on-line at: <http://dgarijo.com/papers/OKG-SoftEscience2019.pdf>.
- 15 Title of the work:** Towards Human-guided Machine Learning
Name of the conference: Intelligent User Interfaces
Type of event: Conference
City of event: Los Angeles, United States of America
Date of event: 17/03/2019
End date: 20/03/2019
Organising entity: ACM
Type of contribution: Scientific paper
Gil, Yolanda; Honaker, James; Gupta, Shikhar; Ma, Yibo; D'Orazio, Vito; Daniel Garijo; Gadewar, Shruti; Yang, Qifan; Jahanshad, Neda. "Proceedings of the 24th International Conference on Intelligent User



Interfaces". pp. 1057 - 1058. 2019. Available on-line at: <<http://dgarijo.com/papers/iuiDemo2019.pdf>>. ISBN 978-1-4503-6272-6

- 16 Title of the work:** Semantic Modelling of Plans and Execution Traces for Enhancing Transparency of IoT Systems
Name of the conference: Sixth International Conference on Internet of Things: Systems, Management and Security (IOTSMS)
City of event: Granada,
Date of event: 2019
Type of contribution: Scientific book or monograph
Milan Markovic; Daniel Garijo; Peter Edwards; Wamberto Vasconcelos. "2019 Sixth International Conference on Internet of Things: Systems, Management and Security (IOTSMS)". pp. 110 - 115. 10/2019. Available on-line at: <http://dgarijo.com/papers/IoT_Systems_AAM2019.pdf>.
- 17 Title of the work:** Semantic Workflows for Benchmark Challenges: Enhancing Comparability, Reusability and Reproducibility
Name of the conference: Pacific Symposium on Biocomputing
Date of event: 2019
Type of contribution: Scientific book or monograph
Arunima Srivastava; Raval Adusumilli; Hunter Boyce; Daniel Garijo; Varun Ratnakar; Rajiv Mayani; Thomas Yu; Raghu Machiraju; Yolanda Gil; Parag Mallick. "Proceedings of the Pacific Symposium on Biocomputing (PSB)". 2019. Available on-line at: <<http://www.isi.edu/~gil/papers/srivastava-et-al-psb19.pdf>>.
- 18 Title of the work:** T2WML: A Cell-Based Language to Map Tables into Wikidata Records
Name of the conference: International Semantic Web Conference
Date of event: 2019
Type of contribution: Scientific book or monograph
Pedro A. Szekely; Daniel Garijo; Jay Pujara; Divij Bhatia; Jiasheng Wu. "ISWC Satellites". 2019. Available on-line at: <<http://ceur-ws.org/Vol-2456/paper12.pdf>>.
- 19 Title of the work:** T2WML: Table To Wikidata Mapping Language
Name of the conference: 10th International Conference on Knowledge Capture
City of event: Los Angeles, United States of America
Date of event: 2019
Organising entity: ACM
Pedro Szekely; Daniel Garijo; Divij Bhatia; Jiasheng Wu; Yixiang Yao; Jay Pujara. "Proceedings of the 10th International Conference on Knowledge Capture".
- 20 Title of the work:** Towards Automated Hypothesis Testing in Neuroscience
Name of the conference: VLDB Workshop on Data Management and Analytics for Medicine and Healthcare
Corresponding author: Yes
Date of event: 2019
Daniel Garijo; Shobeir Fakhraei; Varun Ratnakar; Qifan Yang; Hanna Endrias; Yibo Ma; Regina Wang; Michael Bornstein; Joanna Bright; Yolanda Gil; Neda Jahanshad. "Heterogeneous Data Management, Polystores, and Analytics for Healthcare".
- 21 Title of the work:** Semantic Software Metadata for Workflow Exploration and Evolution
Name of the conference: International Conference on eScience
Type of event: Conference
City of event: Amsterdam, Holland
Date of event: 29/10/2018



End date: 01/10/2018

Organising entity: IEEE

Type of contribution: Scientific paper

Lucas Carvalho; Daniel Garijo; Claudia Bauzer Medeiros; Yolanda Gil. "Proceedings of the Fourteenth IEEE International Conference on eScience". 2018.

22 Title of the work: P4ML: A Phased Performance-Based Pipeline Planner for Automated Machine Learning

Name of the conference: Machine Learning Research, ICML 2018 AutoML Workshop

Type of event: Workshop

City of event: Stockholm, Sweden

Date of event: 10/07/2018

End date: 15/07/2018

Type of contribution: Scientific paper

Yolanda Gil; Ke-Thia Yao; Varun Ratnakar; Daniel Garijo; Greg Ver Steeg; Pedro Szekely; Rob Brekelmans; Mayank Kejriwal; Fanghao Luo; I-Hui Huang. "Proceedings of Machine Learning Research, ICML 2018 AutoML Workshop". 2018. Available on-line at: <<http://dgarijo.com/papers/widoco-iswc2017.pdf>>.

23 Title of the work: A Semantic Model Catalog to Support Comparison and Reuse

Name of the conference: International Congress on Environmental Modelling and Software

Type of event: Conference

City of event: Ft Collins, United States of America

Date of event: 24/06/2018

End date: 28/06/2018

Type of contribution: Scientific book or monograph

Daniel Garijo; Deborah Khider; Yolanda Gil; Lucas Carvalho; Bakinam Essawy; Suzanne Pierce; Daniel Hardesty Lewis; Varun Ratnakar; Scott Peckham; Chris Duffy; Jonathan Goodal. "Proceedings of the 9th International Congress on Environmental Modelling and Software". 2018. Available on-line at: <<http://dgarijo.com/papers/IEMSS2018-OntoSoft.pdf>>.

24 Title of the work: MINT: Model Integration Through Knowledge-Powered Data and Process Composition

Name of the conference: International Congress on Environmental Modeling and Software

Type of event: Conference

City of event: Ft Collins, United States of America

Date of event: 24/06/2018

End date: 28/06/2018

Type of contribution: Scientific paper

Yolanda Gil; Kelly Cobourn; Ewa Deelman; Chris Duffy; Rafael Ferreira da Silva; Armen Kemanian; Craig Knoblock; Vipin Kumar; Scott Peckham; Lucas Carvalho; Yao-Yi Chiang; Daniel Garijo; Deborah Khider; Ankush Khandelwal; Minh Pahm; Jay Pujara; Varun Ratnakar; Maria Stoica; Binh Vu. "Proceedings of the 9th International Congress on Environmental Modelling and Software". 2018. Available on-line at: <<http://dgarijo.com/papers/iemss2018-MINT.pdf>>.

25 Title of the work: Towards Model Integration via Abductive Workflow Composition and Multi-Method Scalable Model Execution

Name of the conference: International Congress on Environmental Modeling and Software

City of event: Ft Collins, United States of America

Date of event: 24/06/2018

End date: 28/06/2018

Type of contribution: Scientific book or monograph

Rafael Ferreira da Silva; Daniel Garijo; Scott D. Peckham; Yolanda Gil; Ewa Deelman; Varun Ratnakar. "Proceedings of the Ninth International Congress on Environmental Modeling and Software". 2018. Available on-line at: <<http://www.isi.edu/~gil/papers/ferreira-et-al-iemss18.pdf>>.

- 26** **Title of the work:** PSM-Flow: Probabilistic Subgraph Mining for Discovering Reusable Fragments in Workflows
Name of the conference: International Conference on Web Intelligence
Type of event: Conference
City of event: Santiago de Chile, Chile
Date of event: 2018
End date: 2018
Type of contribution: Scientific paper
Chin Wang Cheong; Daniel Garijo; Kwok{-}Wai Cheung; Yolanda Gil. "2018 {IEEE/WIC/ACM} International Conference on Web Intelligence, {WI} 2018, Santiago, Chile, December 3-6, 2018". pp. 166 - 173. 2018. Available on-line at: <<https://doi.org/10.1109/WI.2018.00-93>>.
- 27** **Title of the work:** Improving Publication and Reproducibility of Computational Experiments through Workflow Abstractions
Name of the conference: Workshop on Capturing Scientific Knowledge (SciKnow)
Type of event: Workshop
City of event: Austin, United States of America
Date of event: 04/12/2017
End date: 04/12/2017
Organising entity: ACM
Type of contribution: Scientific book or monograph
Yolanda Gil; Daniel Garijo; Margaret Knoblock; Alyssa Deng; Ravali Adusumilli; Varun Ratnakar; Parag Mallick. "Proceedings of the Workshop on Capturing Scientific Knowledge (SciKnow), held in conjunction with the ACM International Conference on Knowledge Capture (K-CAP)". 2017. Available on-line at: <http://dgarijo.com/papers/gil_sciknow17.pdf>.
- 28** **Title of the work:** NiW: Converting Notebooks into Workflows to Capture Dataflow and Provenance
Name of the conference: Workshop on Capturing Scientific Knowledge (SciKnow)
Type of event: Workshop
City of event: Austin, United States of America
Date of event: 04/12/2017
End date: 04/12/2017
Organising entity: ACM
Type of contribution: Scientific paper
Lucas A. M. C. Carvalho; Regina Wang; Yolanda Gil; Daniel Garijo. "Proceedings of the Workshop on Capturing Scientific Knowledge (SciKnow), held in conjunction with the ACM International Conference on Knowledge Capture (K-CAP)". 2017. Available on-line at: <http://dgarijo.com/papers/carvalho_niw.pdf>.
- 29** **Title of the work:** Requirements for Supporting the Iterative Exploration of Scientific Workflow Variants
Name of the conference: Workshop on Capturing Scientific Knowledge (SciKnow)
Type of event: Workshop
City of event: Austin, United States of America
Date of event: 04/12/2017
End date: 04/12/2017
Organising entity: ACM
Type of contribution: Scientific paper
Lucas A. M. C. Carvalho; Bakinam T. Essawy; Daniel Garijo; Claudia Bauzer Medeiros; Yolanda Gil. "Proceedings of the Workshop on Capturing Scientific Knowledge (SciKnow), held in conjunction with the ACM International Conference on Knowledge Capture (K-CAP)". 2017. Available on-line at: <http://dgarijo.com/papers/carvalho_sciknow17.pdf>.



- 30** **Title of the work:** The DISK Hypothesis Ontology: Capturing Hypothesis Evolution for Automated Discovery
Name of the conference: Workshop on Capturing Scientific Knowledge (SciKnow)
Type of event: Workshop
City of event: Austin, United States of America
Date of event: 04/12/2017
End date: 04/12/2017
Organising entity: ACM
Type of contribution: Scientific paper
Daniel Garijo; Yolanda Gil; Varun Ratnakar. "Proceedings of the Workshop on Capturing Scientific Knowledge (SciKnow), held in conjunction with the ACM International Conference on Knowledge Capture (K-CAP)". 2017. Available on-line at: <http://dgarijo.com/papers/garijo_sciknow17.pdf>.
- 31** **Title of the work:** A Controlled Crowdsourcing Approach for Practical Ontology Extensions and Metadata Annotations
Name of the conference: International Semantic Web Conference
Type of event: Conference
City of event: Viena, Austria
Date of event: 21/10/2017
End date: 25/10/2017
Organising entity: Springer, Cham
Type of contribution: Scientific paper
Yolanda Gil; Daniel Garijo; Varun Ratnakar; Deborah Khider; Julien Emile-Geay; Nicholas McKay. "International Semantic Web Conference". pp. 231 - 246. 2017. Available on-line at: <<http://dgarijo.com/papers/linkedEarth-iswc2017.pdf>>. ISBN 978-3-319-68203-7
DOI: 10.1007/978-3-319-68204-4_24
- 32** **Title of the work:** WIDOCO: a wizard for documenting ontologies
Name of the conference: International Semantic Web Conference
Type of event: Conference
Date of event: 21/10/2017
End date: 25/10/2017
Organising entity: Springer, Cham
City organizing entity: Viena, Austria
Type of contribution: Scientific paper
Daniel Garijo. "International Semantic Web Conference". pp. 94 - 102. 2017. Available on-line at: <<http://dgarijo.com/papers/widoco-iswc2017.pdf>>.
- 33** **Title of the work:** Towards Automating Data Narratives
Name of the conference: International Conference on Intelligent User Interfaces
Type of event: Conference
Date of event: 13/03/2017
End date: 16/03/2017
Organising entity: ACM
Type of contribution: Scientific paper
Yolanda Gil; Daniel Garijo. "Proceedings of the 22nd International Conference on Intelligent User Interfaces". pp. 565 - 576. 2017. Available on-line at: <<http://dgarijo.com/papers/iui2017.pdf>>.
- 34** **Title of the work:** Towards Continuous Scientific Data Analysis and Hypothesis Evolution.
Name of the conference: AAAI Conference on Artificial Intelligence
Type of event: Conference
Date of event: 04/02/2017
End date: 09/02/2017



Organising entity: AAAI

Type of contribution: Scientific paper

Yolanda Gil; Daniel Garijo; Varun Ratnakar; Rajiv Mayani; Ravali Adusumilli; Hunter Boyce; Arunima Srivastava; Parag Mallick. "Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence". pp. 4406 - 4414. 2017. Available on-line at: <<http://dgarijo.com/papers/aaai2017.pdf>>.

35 Title of the work: OntoSoft: A distributed semantic registry for scientific software

Name of the conference: International Conference on e-Science (e-Science)

Type of event: Conference

City of event: Baltimore, United States of America

Date of event: 24/10/2016

End date: 26/10/2016

Organising entity: IEEE

Type of contribution: Scientific paper

Yolanda Gil; Daniel Garijo; Saurabh Mishra; Varun Ratnakar. "e-Science (e-Science), 2016 IEEE 12th International Conference on". pp. 331 - 336. 2016. Available on-line at: <<http://dgarijo.com/papers/ontoSoft2016.pdf>>.

36 Title of the work: Automated Hypothesis Testing with Large Scientific Data Repositories

Name of the conference: Annual Conference on Advances in Cognitive Systems

Type of event: Conference

City of event: Evanston, United States of America

Date of event: 23/06/2016

End date: 26/06/2016

Type of contribution: Scientific paper

Yolanda Gil; Daniel Garijo; Varun Ratnakar; Rajiv Mayani; Ravali Adusumilli; Hunter Boyce; Parag Mallick. "Proceedings of the Fourth Annual Conference on Advances in Cognitive Systems (ACS)". 2016. Available on-line at: <<http://dgarijo.com/papers/acs2016.pdf>>.

37 Title of the work: OntoSoft: Capturing scientific software metadata

Name of the conference: International Conference on Knowledge Capture

Type of event: Conference

City of event: Palisades, United States of America

Date of event: 07/10/2015

End date: 10/10/2015

Organising entity: ACM

Type of contribution: Scientific paper

Yolanda Gil; Varun Ratnakar; Daniel Garijo. "Proceedings of the 8th International Conference on Knowledge Capture". pp. 32 - 32. 2015. Available on-line at: <<http://dgarijo.com/papers/gil-et-al-kcap2015.pdf>>.

38 Title of the work: OnToology, a tool for collaborative development of ontologies.

Name of the conference: International Conference on Biomedical Ontology

Type of event: Workshop

City of event: Lisboa, Portugal

Date of event: 26/07/2015

End date: 30/07/2015

Type of contribution: Scientific book or monograph

Ahmad Alobaid; Daniel Garijo; Maria Poveda-Villalon; Idafen Santana Perez; Oscar Corcho. "ICBO". 2015. Available on-line at: <<http://dgarijo.com/papers/ontology.pdf>>.

- 39** **Title of the work:** LDP4ROs: Managing Research Objects with the W3C Linked Data Platform
Name of the conference: Save-SD - International Conference on World Wide Web
Type of event: Workshop
City of event: Florence, Italy
Date of event: 18/05/2015
End date: 22/05/2105
Organising entity: ACM
Type of contribution: Scientific paper
Daniel Garijo; Nandana Mihindukulasooriya; Oscar Corcho. "Proceedings of the 24th International Conference on World Wide Web". pp. 1057 - 1058. 2015. Available on-line at: <<http://dgarijo.com/papers/garijo-savesd2015.pdf>>.
- 40** **Title of the work:** Challenges for provenance analytics over geospatial data
Name of the conference: International Provenance and Annotation Workshop
Type of event: Workshop
City of event: Cologne, Germany
Date of event: 21/03/2015
End date: 21/03/2015
Organising entity: Springer, Cham
Type of contribution: Scientific paper
Daniel Garijo; Yolanda Gil; Andreas Harth. "International Provenance and Annotation Workshop". pp. 261 - 263. 2014. Available on-line at: <<http://dgarijo.com/papers/geo.pdf>>.
- 41** **Title of the work:** Fragflow: automated fragment detection in scientific workflows
Name of the conference: International Conference on e-Science
Type of event: Conference
City of event: Guaruja, Brazil
Date of event: 20/10/2014
End date: 24/10/2014
Organising entity: IEEE
Type of contribution: Scientific paper
Daniel Garijo; Oscar Corcho; Yolanda Gil; Boris A Gutman; Ivo D Dinov; Paul Thompson; Arthur W Toga. "e-Science (e-Science), 2014 IEEE 10th International Conference on". 1, pp. 281 - 289. 2014. Available on-line at: <<http://dgarijo.com/papers/fragflow-escience14.pdf>>.
- 42** **Title of the work:** Workflow reuse in practice: a study of neuroimaging pipeline users
Name of the conference: International Conference on e-Science
Type of event: Conference
City of event: Guaruja, Brazil
Date of event: 20/10/2014
End date: 24/10/2014
Organising entity: IEEE
Type of contribution: Scientific paper
Daniel Garijo; Oscar Corcho; Yolanda Gil; Meredith N Braskie; Derrek Hibar; Xue Hua; Neda Jahanshad; Paul Thompson; Arthur W Toga. "e-Science (e-Science), 2014 IEEE 10th International Conference on". 1, pp. 239 - 246. 2014. Available on-line at: <<http://dgarijo.com/papers/usersurvey-escience14.pdf>>.
- 43** **Title of the work:** Towards workflow ecosystems through semantic and standard representations
Name of the conference: Workshop on Workflows in Support of Large-Scale Science
Type of event: Conference
City of event: New Orleans, United States of America
Date of event: 16/10/2014



End date: 16/10/2014

Organising entity: IEEE Press

Type of contribution: Scientific paper

Daniel Garijo; Yolanda Gil; Oscar Corcho. "Proceedings of the 9th Workshop on Workflows in Support of Large-Scale Science". pp. 94 - 104. 2014. Available on-line at: <<http://dgarijo.com/papers/west-works14.pdf>>.

- 44** **Title of the work:** On specifying and sharing scientific workflow optimization results using research objects
Name of the conference: Workshop on Workflows in Support of Large-Scale Science
Type of event: Workshop
City of event: Denver, United States of America
Date of event: 17/11/2013
End date: 17/11/2013
Organising entity: ACM
Type of contribution: Scientific paper
Sonja Holl; Daniel Garijo; Khalid Belhajjame; Olav Zimmermann; Renato De Giovanni; Matthias Obst; Carole Goble. "Proceedings of the 8th Workshop on Workflows in Support of Large-Scale Science". pp. 28 - 37. 2013. Available on-line at: <<http://dgarijo.com/papers/works13.pdf>>.
- 45** **Title of the work:** A workflow PROV-corpus based on taverna and wings
Name of the conference: Joint EDBT/ICDT 2013 Workshops
Type of event: Workshop
City of event: Genoa, Italy
Date of event: 18/03/2013
End date: 22/03/2013
Organising entity: ACM
Type of contribution: Scientific paper
Khalid Belhajjame; Jun Zhao; Daniel Garijo; Aleix Garrido; Stian Soiland-Reyes; Pinar Alper; Oscar Corcho. "Proceedings of the Joint EDBT/ICDT 2013 Workshops". pp. 331 - 332. 2013. Available on-line at: <<http://dgarijo.com/papers/prov-bench-paper.pdf>>.
- 46** **Title of the work:** Detecting common scientific workflow fragments using templates and execution provenance
Name of the conference: International conference on Knowledge capture
Type of event: Conference
Date of event: 2013
End date: 2013
Organising entity: ACM
Type of contribution: Scientific paper
Daniel Garijo; Oscar Corcho; Yolanda Gil. "Proceedings of the seventh international conference on Knowledge capture". pp. 33 - 40. 2013. Available on-line at: <<http://dgarijo.com/papers/paperKCAP2013.pdf>>.
- 47** **Title of the work:** Augmenting PROV with Plans in P-PLAN: Scientific Processes as Linked Data
Name of the conference: International Workshop on Linked Science
Type of event: Workshop
City of event: Boston, United States of America
Date of event: 12/11/2012
End date: 12/11/2012
Type of contribution: Scientific book or monograph



Daniel Garijo; Yolanda Gil. "Second International Workshop on Linked Science: Tackling Big Data (LISC), held in conjunction with the International Semantic Web Conference (ISWC)". 2012. Available on-line at: <<http://dgarijo.com/papers/p-plan-lisc2012.pdf>>.

- 48** **Title of the work:** Common motifs in scientific workflows: An empirical analysis
Name of the conference: International Conference on E-Science
Type of event: Conference
City of event: Chicago, United States of America
Date of event: 08/10/2012
End date: 12/10/2012
Organising entity: ACM
Type of contribution: Scientific paper
D. Garijo; P. Alper; K. Belhajjame; O. Corcho; Y. Gil; C. Goble. "2012 IEEE 8th International Conference on E-Science". pp. 1 - 8. 10/2012. Available on-line at: <<http://dgarijo.com/papers/motifs2012.pdf>>.
- 49** **Title of the work:** A new approach for publishing workflows: abstractions, standards, and linked data
Name of the conference: Workshop on Workflows in support of large-scale science
Type of event: Workshop
City of event: Seattle, United States of America
Date of event: 14/11/2011
End date: 14/11/2011
Organising entity: ACM
Type of contribution: Scientific book or monograph
Daniel Garijo; Yolanda Gil. "Proceedings of the 6th workshop on Workflows in support of large-scale science". pp. 47 - 56. 2011. Available on-line at: <<http://dgarijo.com/papers/works11.pdf>>.
- 50** **Title of the work:** A Provenance-aware Linked Data Application for Trip Management and Organization
Name of the conference: I-Semantics '11
Type of event: Conference
City of event: Graz, Austria
Date of event: 2011
End date: 2011
Organising entity: ACM
Type of contribution: Scientific paper
Daniel Garijo; Boris Villazon-Terrazas; Oscar Corcho. "Proceedings of the 7th International Conference on Semantic Systems". 2011. ISBN 978-1-4503-0621-8
- 51** **Title of the work:** Extending DCAM for metadata provenance
Name of the conference: International Conference on Dublin Core and Metadata Applications
Type of event: Conference
Date of event: 2011
End date: 2011
Type of contribution: Scientific paper
Kai Eckert; Daniel Garijo; Michael Panzer. "International Conference on Dublin Core and Metadata Applications". pp. 12 - 25. 2011. Available on-line at: <<http://dgarijo.com/papers/dc2011.pdf>>.
- 52** **Title of the work:** Metadata provenance: dublin core on the next level
Name of the conference: International Conference on Dublin Core and Metadata Applications
Type of event: Conference
Date of event: 2011
End date: 2011



Organising entity: Dublin Core Metadata Initiative

Type of contribution: Scientific book or monograph

Kai Eckert; Daniel Garijo; Michael Panzer; Omer Perçin. "Proceedings of the 2011 International Conference on Dublin Core and Metadata Applications". pp. 192 - 193. 2011. Available on-line at: <<http://dcpapers.dublincore.org/pubs/article/download/3646/1872>>.

53 Title of the work: Multi-label Text Classification for Public Procurement in Spanish

Type of contribution: Scientific book or monograph

Maria Navas-Loro; Daniel Garijo; Oscar Corcho. En: Procesamiento del Lenguaje Natural. 69 - 0, pp. 73 - 82. 2022. Available on-line at: <<http://journal.sepln.org/sepln/ojs/ojs/index.php/pln/article/view/6429>>. ISSN 1989-7553

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 Committee title:** Association for the Advancement of Artificial Intelligence Program Committee
- 2 Committee title:** Extended Semantic Web Conference Program Committee
- 3 Committee title:** Global Conference on Artificial Intelligence Program Committee
- 4 Committee title:** International Conference on Knowledge capture Program Committee
- 5 Committee title:** International Conference on Semantic Systems Program Committee
- 6 Committee title:** International Provenance and Annotation Workshop Program Committee
- 7 Committee title:** International Semantic Web Conference Program Committee
- 8 Committee title:** International Workshop of Scientific Gateways Program Committee
- 9 Committee title:** International Workshop on Linked Science Program Committee
- 10 Committee title:** International Workshop on Managing and Querying Provenance Data at Scale Program Committee



- 11 **Committee title:** International Workshop on Methods for Establishing Trust of (Open) Data Program Committee
- 12 **Committee title:** Semantics, Analytics, Visualisation: Enhancing Scholarly Data Program Committee
- 13 **Committee title:** Workflows in Support of Large-Scale Science Program Committee
- 14 **Committee title:** Workshop on Semantic Web Enterprise Adoption and Best Practice Program Committee
- 15 **Committee title:** the Web Conference Program Committee

Organization of R&D activities

- 1 **Title of the activity:** Special Issue on Semantic eScience: Methods, tools and applications
Type of activity: Journal special issue organization
Start-End date: 15/11/2018 - 31/01/2019
- 2 **Title of the activity:** Second workshop on enabling semantic science (SemSci2018), co-located with ISWC 2018
Type of activity: Workshop
Start-End date: 2018 - 2018
- 3 **Title of the activity:** First workshop on enabling semantic science (SemSci2017), co-located with ISWC 2017
Type of activity: Workshop
Start-End date: 2017 - 2017
- 4 **Title of the activity:** Second workshop on capturing scientific knowledge (SciKnow2017), co-located with K-CAP 2017
Type of activity: Workshop
Start-End date: 2017 - 2017
- 5 **Title of the activity:** The AAAI 2020 Workshop on Reproducible AI - RAI2020, co-located with AAAI 2020
Type of activity: Workshop
Start date: 2020
- 6 **Title of the activity:** Federated Knowledge Bases and the Open Knowledge Network, co-located with the 2019 Automatic Knowledge Base Construction Conference (AKBC2019)
Type of activity: Workshop
Start date: 2019



- 7 Title of the activity:** Third Workshop on Capturing Scientific Knowledge, co-located with 10th International Conference on Knowledge Capture (K-CAP) 2019
Type of activity: Workshop
Start date: 2019

Evaluation and revision of R&D projects and articles

- 1 Performed tasks:** Reviewer
Entity where activity was carried out: Computers & Geosciences
Start-End date: 03/03/2018 - 03/03/2018
- 2 Performed tasks:** Reviewer
Entity where activity was carried out: Semantic Web Journal
Start-End date: 27/01/2018 - 27/01/2018
- 3 Performed tasks:** Reviewer
Entity where activity was carried out: Software: Practice and Experience
Start-End date: 25/11/2017 - 25/11/2017
- 4 Performed tasks:** Reviewer
Entity where activity was carried out: Future Generation Computer Systems
Start-End date: 25/09/2017 - 25/09/2017
- 5 Performed tasks:** Reviewer
Entity where activity was carried out: Computer and Geosciences
Start-End date: 23/09/2017 - 23/09/2017
- 6 Performed tasks:** Reviewer
Entity where activity was carried out: Future Generation Computer Systems
Start-End date: 28/08/2017 - 28/08/2017
- 7 Performed tasks:** Reviewer
Entity where activity was carried out: Concurrency and Computation: Practice and Experience
Start-End date: 22/05/2017 - 22/05/2017
- 8 Performed tasks:** Reviewer
Entity where activity was carried out: Future Generation Computer Systems
Start-End date: 09/05/2017 - 09/05/2017
- 9 Performed tasks:** Reviewer
Entity where activity was carried out: Future Generation Computer Systems
Start-End date: 23/04/2017 - 23/04/2017
- 10 Performed tasks:** Reviewer
Entity where activity was carried out: Information
Start-End date: 12/04/2017 - 12/04/2017
- 11 Performed tasks:** Reviewer
Entity where activity was carried out: International Journal of Human-Computer Studies
Start-End date: 30/11/2015 - 30/11/2015



- 12 Performed tasks:** Reviewer
Entity where activity was carried out: Future Generation Computer Systems
Start-End date: 06/03/2013 - 06/03/2013
- 13 Performed tasks:** Reviewer
Entity where activity was carried out: Journal of Web Semantics
Start date: 03/03/2018
- 14 Performed tasks:** Reviewer
Entity where activity was carried out: IEEE Transactions on Parallel and Distributed Systems
Start date: 24/01/2017
- 15 Performed tasks:** Reviewer
Entity where activity was carried out: Future Generation Computer Systems
Start date: 19/06/2016
- 16 Performed tasks:** Reviewer
Entity where activity was carried out: Computers & Electrical Engineering
Start date: 03/06/2016
- 17 Performed tasks:** Reviewer
Entity where activity was carried out: International Journal of Human-Computer Studies
Start date: 16/07/2015

Other achievements

Stays in public or private R&D centres

- 1 Entity:** Information Sciences Institute **Type of entity:** University Research Institute
Faculty, institute or centre: University of Southern California
City of entity: Los Angeles, United States of America
Start-End date: 01/03/2014 - 01/06/2014 **Duration:** 3 months
Goals of the stay: Doctorate
- 2 Entity:** Information Sciences Institute **Type of entity:** University Research Institute
Faculty, institute or centre: University of Southern California
City of entity: Los Angeles, United States of America
Start-End date: 15/07/2013 - 15/10/2012 **Duration:** 3 months
Goals of the stay: Doctorate
- 3 Entity:** Information Sciences Institute **Type of entity:** University Research Institute
Faculty, institute or centre: University of Southern California
City of entity: Los Angeles, United States of America
Start-End date: 01/07/2011 - 01/10/2011 **Duration:** 3 months
Goals of the stay: Doctorate



Obtained grants and scholarships

- 1 Name of the grant:** Beatriz Galindo
Aims: Post-doctoral
Awarding entity: Comunidad de Madrid **Type of entity:** Government
Conferral date: 01/03/2021 **Duration:** 4 years
End date: 28/02/2025
Entity where activity was carried out: Universidad Politécnica de Madrid
Faculty, institute or centre: ETSI Informática
- 2 Name of the grant:** FPU (Formación de Personal Universitario)
Aims: Pre-doctoral
Awarding entity: Ministerio de Ciencia e Innovación **Type of entity:** 0
Conferral date: 2011 **Duration:** 5 years
End date: 2015
Entity where activity was carried out: Universidad Politécnica de Madrid
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Informaticos
- 3 Name of the grant:** Beca OTT (Oficina de Transferencia tecnológica)
Aims: Pre-doctoral
Awarding entity: Universidad Politécnica de Madrid **Type of entity:** University
Conferral date: 2009 **Duration:** 2 years
End date: 2011
Entity where activity was carried out: Universidad Politécnica de Madrid

Co-operation networks

Name of the network: Intelligent Systems for Geosciences
Identification of the network: RCN of the National Science Foundation under award number 1632211
Start date: 2017

Prizes, mentions and distinctions

- 1 Description:** Best demo award at the 2021 International Semantic Web Conference
Awarding entity: ISWC
Conferral date: 28/10/2021
Recognition linked: <https://iswc2021.semanticweb.org/posters-and-demos-program>
- 2 Description:** Best paper award at the Sixth International Conference on Internet of Things: Systems, Management and Security (IOTSMS)
Awarding entity: IOTSMS
Conferral date: 2019
- 3 Description:** Best Poster award at the 2018 INCF Neuroinformatics Congress, Montreal, Canada,
Awarding entity: INCF Neuroinformatics Congress
Conferral date: 2018



- 4** **Description:** Best ISWC 2017 Resource paper award
Awarding entity: ISWC
Conferral date: 2017

- 5** **Description:** Premio extraordinario de tesis doctoral
Awarding entity: Universidad Politécnica de Madrid **Type of entity:** University
City awarding entity: Madrid, Spain
Conferral date: 2017

- 6** **Description:** Mencion especial I Concurso de Datos Abiertos organized by Junta de Castilla y León
Awarding entity: Junta de Castilla y León **Type of entity:** 0
Conferral date: 2013

- 7** **Description:** Triplification Challenge award
Conferral date: 2011

Summary of other achievements

- 1** **Description of the achievement:** Invited participant of the Dagstuhl Seminar: Towards a Unified Model of Scholarly Argumentation
Conferral date: 23/10/2022

- 2** **Description of the achievement:** Invited participant of the Dagstuhl Seminar: Engineering academic software

- 3** **Description of the achievement:** Invited participant of the Dagstuhl Seminar: Principles of Provenance

- 4** **Description of the achievement:** Invited participant of the Dagstuhl Seminar: Reproducibility of Data oriented experiments on eScience