



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 Research Computer Scientist at the Information Sciences Institute of the University of Southern California, in Los Angeles. Previously, he held a postdoctoral position at the same institution (2016-2018), after finishing his PhD on Artificial intelligence (extraordinary award, 2015) at the Ontology Engineering Group of the Polytechnic University of Madrid.

Daniel's 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 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

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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) 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**: **1742** citations; **H index**: **17**; **I 10 index**: **29**. <https://scholar.google.es/citations?user=meb5L6oAAAAJ&hl=es>

According to **Scopus**: **422** citations; **H index**: **10**; <https://www.scopus.com/authid/detail.uri?authorId=54405468800>

Average number of citations per year between 2016-2019: 265 (Google scholar); 70 (Scopus)

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

Daniel Garijo Verdejo

Surname(s): **Garijo Verdejo**
Name: **Daniel**
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ScopusID: **54405468800**
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Email: **dgarijov@gmail.com**
Mobile phone: **(34) 667949892**
Personal web page: **http://dgarijo.com**

Current professional situation

Employing entity: Information Sciences Institute **Type of entity:** University Research Institute

Department: University of Southern California

Professional category: Computer Scientist

Start date: 01/07/2018

Type of contract: Permanent employment contract

Dedication regime: Full time

Primary (UNESCO code): 330400 - Computer technology

Performed tasks: Full time 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 data processing

Previous positions and activities

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

1 **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

2 **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

Teaching experience in courses and seminars for university teacher training

- 1 **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



- 2** **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
- 3** **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
- 4** **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
- 5** **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
- 6** **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
- 7** **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
- 8** **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
- 9** **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
- 10** **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

11 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

Other activities/achievements not included above

1 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

2 Description of the activity: Student mentoring: CSCI401

Organising entity: University of Southern California **Type of entity:** University

End date: 2018

3 Description of the activity: Summer interns: Student supervision and mentoring

Organising entity: Information Sciences Institute **Type of entity:** University Research Institute

End date: 2018

4 Description of the activity: Student mentoring: CSCI 401

Organising entity: University of Southern California **Type of entity:** University

End date: 2017

5 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:** 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
- 2** **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
- 3** **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
Start date: 01/02/2016
- 4** **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
Start date: 01/02/2016
- 5** **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
Start date: 02/01/2016
- 6** **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**7 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**Start date:** 01/12/2010**8 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

Scientific and technological activities

Scientific production

H index: 15**Date of application:** 19/01/2019

Publications, scientific and technical documents

1. PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. Reviews of Geophysics. 34 - 10, pp. 1570 - 1596. 24/10/2019.

Type of production: Scientific paper**Format:** Journal**Corresponding author:** No

- 2 FAIR Computational Workflows. Data Intelligence. pp. 108 - 121. MIT Press Journals, 06/07/2019.

Type of production: Scientific paper**Format:** Journal

- 3 Ahmad Alobaid; Daniel Garijo; Maria Poveda-Villalon; Idafen Santana-Perez; Alba Fernandez-Izquierdo; Oscar Corcho. Automating ontology engineering support activities with OnToolology. 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

- 4 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

- 5 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

- 6 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

- 7 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

- 8 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

Format: Journal

- 9 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

Format: Journal

- 10 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

Format: Journal

- 11 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

Format: Journal

- 12 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

- 13 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

- 14 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

- 15 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

- 16 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

Works submitted to national or international conferences

- 1** **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>>.
- 2** **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
- 3** **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>.
- 4** **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>>.

- 5** **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>>.
- 6** **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: University of Southern California
Pedro Szekely; Daniel Garijo; Divij Bhathia; Jiasheng Wu; Yixiang Yao; Jay Pujara. "Proceedings of the 10th International Conference on Knowledge Capture".
- 7** **Title of the work:** Towards Automated Hypothesis Testing in Neuroscience
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".
- 8** **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.
- 9** **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>>.
- 10** **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>.

11 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>.

12 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>.

13 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>.

14 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.

- 15** **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>.
- 16** **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>.
- 17** **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>.
- 18** **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

- 19 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>>.
- 20 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>>.
- 21 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>>.
- 22 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>>.
- 23 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>>.

- 24 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>>.
- 25 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>>.
- 26 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: 22/05/2015
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>>.
- 27 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>>.
- 28 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: Guarujá, 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>>.

29 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: Guarujá, 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>>.

30 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>>.

31 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>>.

32 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>.

33 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>.

34 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>.

35 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>.

36 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>.

37 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

38 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>>.

39 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>>.

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:** 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 Informáticos
- 2** **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 paper award at the Sixth International Conference on Internet of Things: Systems, Management and Security (IOTSMS)
Awarding entity: IOTSMS
Conferral date: 2019
- 2** **Description:** Best Poster award at the 2018 INCF Neuroinformatics Congress, Montreal, Canada,
Awarding entity: INCF Neuroinformatics Congress
Conferral date: 2018
- 3** **Description:** Best ISWC 2017 Resource paper award
Awarding entity: ISWC
Conferral date: 2017
- 4** **Description:** Premio extraordinario de tesis doctoral
Awarding entity: Universidad Politécnica de Madrid **Type of entity:** University
City awarding entity: Madrid, Spain
Conferral date: 2017
- 5** **Description:** Mención 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
- 6** **Description:** Triplification Challenge award
Conferral date: 2011

Summary of other achievements

- 1** **Description of the achievement:** Invited participant of the Dagstuhl Seminar: Engineering academic software
- 2** **Description of the achievement:** Invited participant of the Dagstuhl Seminar: Principles of Provenance
- 3** **Description of the achievement:** Invited participant of the Dagstuhl Seminar: Reproducibility of Data oriented experiments on eScience