

Enrico Daga, PhD (Orcid: 0000-0002-3184-5407)

Curriculum vitae, April 2025

Enrico Daga has carried out R&D on Web Semantics first at the Italian National Research Council (CNR), and then at the Knowledge Media Institute (KMi) of The Open University in the UK. He has a PhD in Artificial Intelligence and is currently a Senior Research Fellow in KMi.

After developing intelligent systems for Ontology Engineering (NeOn) and Smart Cities (MK:Smart), his current research is exploring the application of knowledge graph technologies in socio-technical environments: cultural heritage, smart cities and robotics, and healthcare. Specifically, he is developing novel methods for knowledge graph construction and curation, including policies and methodological information. He is currently engaged in two EU-funded projects in the areas of Cultural Heritage and Music: SPICE -- as co-investigator, and Polifonia -- as Technical Director and Principal Investigator for the OU. Furthermore, Enrico is Technical Director of the OU Open Knowledge Graph and of the MK Data Hub, a Smart City Data Infrastructure supporting research (SciRoc - robots in Smart Cities) and innovation (CityLABS project).

Passionate about AI and its relevance for Humanities research, Enrico is co-founder of the WHiSe Workshop on Humanities in the Semantic Web and co-chair of the Artificial Intelligence and Music (AIM) DARIAH WG.

So far, Enrico supervised three PhD students upon completion, while three more are in progress. He contributed reviewing 2 PhD thesis (University of Bologna) and 1 MPhil thesis (University of Bergen), and two PhD reviews are planned with the universities of Bergen (Norway) and Le CNAM (France).

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<http://www.enridaga.net>

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<https://twitter.com/enridaga>

<https://github.com/enridaga>

<https://www.linkedin.com/in/enricodaga/>

<https://www.slideshare.net/enricodaga>

Education

- 2018 PhD (Thesis “Knowledge Components and Methods for Policy Propagation in Data Flows), Knowledge Media Institute, STEM Faculty, The Open University
- 2004 BA (Hons) (Arts and Humanities, Thesis “Musica tra tecnica e lingua della regia / Music between technique and theory of theatre direction”), Università RomaTRE, Rome (Italy).

Appointments and Experience

- 2022-today Senior Research Fellow, The Open University
- 2024-2025 Visiting Professor, University of Turin
- 2019-2022 Research Fellow, The Open University
- 2016-2019 Senior Project Officer, The Open University
- 2013-16 Project Officer: Linked Data, The Open University
- 2008-2013 Technologist, Information Technology Department (DCSPI) and Semantic technology Laboratory (STLab-ISTC), Italian National Research Council (CNR)
- 2005-2008 Software Developer, Networks and Communication, Italian National Research Council (CNR)

Research Projects

- 2021-2024 **Polifonia: a Digital Harmoniser of Musical Heritage knowledge** Funder: EU, H2020, £376,972.84 OU grant Link: <http://www.polifonia-project.eu> Role: Principal Investigator (OU) and Technical Director, H2020 (2020-2024).
- 2021-2022 **Landscape Sensor-based Monitoring Assessment using Remote Technologies;** Funder: UK Government Departments / UKSA Default Scheme, £398k STEM ENGINNOVA Grant; Role: Co-i.
- 2020-2023 **SPICE – Social Cohesion, Participation, and Inclusion through Cultural Engagement;** Funder: EU H2020 £395k OU grant; Role: Co-I; <http://spice-h2020.eu>
- 2019-2020 **Linking islands of data** Funder: AHRC, £10k FASS grant; Role: Co-I
- 2019-2021 **MK:5G Connecting Communities;** Funder: UKRI SEMLEP, £284k OU grant; Role: Researcher and Project Team Leader.
- 2017-2019 **Listening Experience Database (LED);** Funder: AHRC; Link: <http://led.kmi.open.ac.uk>; Role: Researcher
- 2017-2019 **CityLABS;** Funder: ERDF, 512k OU Grant; Link: <http://citylabs.co.uk>; Role: Technical Team Leader
- 2014-2016 **MK:Smart** Funder: HEFCE, £2,319M OU Grant; Link: <http://www.mksmart.org>; Role: Researcher, next Technical Director of the MK Data Hub
- 2010 **data.open.ac.uk - The Open Knowledge Graph of the OU;** Link: <http://data.open.ac.uk> Current Role: Director
- 2010-2013 **Interactive Knowledge Stack (IKS);** Funder: EU, IST-2005-027595; Link: <https://www.iks-project.eu/> Role: CNR Technical Team Leader, Technical Board member
- 2009-2013 **Data.CNR.it** Link: <http://data.cnr.it> Funder: Commissioned by CNR Technology Transfer Office Role: Lead Developer
- 2008-2010 **NeOn - Networked Ontologies – Developer;** Link: <http://www.neon-project.org> Funder: EU, IST-2005-027595; Role: Developer

External academic activities

Enrico is a member of the program committee of several conferences, workshops, and contributes to peer-reviewed journals in the areas of Semantic Web and Knowledge Engineering, including TheWebConf, IJCAI, ECAI, ISWC, ESWC, CIKM, SEMANTICS, K-Cap, EKAW, Journal of Web Semantics (JWS), Semantic Web Journal (IOS Press), IEEE Access, Applied Ontology (IOS Press), the Journal on Computing and Cultural Heritage (JOCCH, ACM), and Transactions on Internet Technology (TOIT, ACM).

He gives is invited to give lectures on topics relevant to his research such as Linked Data and their application to humanities research, Knowledge Graph construction and applications. An incomplete account of past talks can be found on SlideShare: <https://www.slideshare.net/enricodaga>

Enrico reviewed 3 UK EPSRC grant proposals (2018-2024) and 1 National Research Council of Norway proposal (2021).

Selected Publications

For a complete list, see <https://scholar.google.com/citations?user=YQxPxMoAAAAJ>

Morales Tirado, Alba, Jason Carvalho, Marco Ratta, Chukwudi Uwasomba, Paul Mulholland, Helen Barlow, Trevor Herbert, and **Enrico Daga** “**Musical Meetups Knowledge Graph (MMKG): a collection of evidence for historical social network analysis**” Proc. Extended Semantic Web Conference (ESWC), Resources Track – Accepted, Springer (2024)

Daga, Enrico, and Paul Groth. (2023) “**Data journeys: explaining AI workflows through abstraction.**” Semantic Web, vol. Pre-press, no. Pre-press, pp. 1-27, 2023. <https://oro.open.ac.uk/88012/>

Reyero Lobo, Paula; Daga, Enrico; Alani, Harith and Fernandez, Miriam. **Knowledge-Grounded Target Group Language Recognition in Hate Speech**. In: M. Acosta et al. (Eds.) Knowledge Graphs: Semantics, Machine Learning, and Languages 56, IOS Press (2023): 1-18. <https://oro.open.ac.uk/92895/1/92895.pdf> (Best Paper award)

Asprino, Luigi; **Daga, Enrico**; Mulholland, Paul and Gangemi, Aldo (2023). **Knowledge Graph Construction with a façade: a unified method to access heterogeneous data sources on the Web**. ACM Transactions on Internet Technology 23, no. 1 (2023): 1-31. <https://oro.open.ac.uk/84520/>

Chiatti, A.; Motta, E.; and **Daga, E.** (2022). **Robots with Commonsense: Improving Object Recognition through Size and Spatial Awareness**. (2022). In A. Martin, K. Hinkelmann, H.-G. Fill, A. Gerber, D. Lenat, R. Stolle, F. van Harmelen (Eds.), Proceedings of the AAAI 2022 Spring Symposium on Machine Learning and Knowledge Engineering for Hybrid Intelligence (AAAI-MAKE 2022), Stanford University, Palo Alto, California, USA, March 21–23, 2022.

Reyero Lobo, Paula; **Daga, Enrico**; Alani, Harith and Fernandez, Miriam (2022). **Semantic Web technologies and bias in artificial intelligence: A systematic literature review**. Semantic Web 14, no. 4 (2023): 745-770. <https://oro.open.ac.uk/85070/>

Daga, E.; Asprino, L.; Mulholland, P. and Gangemi, A. (2021). **Facade-X: An Opinionated Approach to SPARQL Anything**. In: Alam, Mehwish; Groth, Paul; de Boer, Victor; Pellegrini, Tassilo and Pandit, Harshvardhan J. eds. *Volume 53: Further with Knowledge Graphs*, Volume 53. IOS Press, pp. 58–73. DOI: <https://doi.org/10.3233/ssw210035>

Daga, E., d'Aquin, M., Adamou, A. and Brown, S., 2016. The open university linked data – data.open.ac.uk. Semantic Web, 7(2), pp.183-191, IOS Press. <http://oro.open.ac.uk/45433/>

Daga, E., d'Aquin, M., Gangemi, A. and Motta, E., 2015, October. Propagation of policies in rich data flows. In *Proceedings of the 8th International Conference on Knowledge Capture* (pp. 1-8). <http://oro.open.ac.uk/45432/>

Gangemi, A., **Daga, E.**, Salvati, A., Troiani, G. and Baldassarre, C., 2011. **Linked Open Data for the Italian PA: the CNR experience.** *Informatica e Diritto*, 1(2), pp.453-476. <https://www.istc.cnr.it/en/content/linked-open-data-italian-pa-cnr-experience>

Milton Keynes, 01/05/2024