

Semantic Web & Knowledge Graphs Lead | Data Interoperability | Ontology Engineering

Project Officer, Operational Data Unit - European Union Agency for Railways (ERA), France

PERSONAL INFORMATION

Current role: Project Officer, ERA Operational Data Unit

Website: atemezing.org

ORCID: 0000-0003-1562-6922

Availability: References and full academic CV on request

JOB-SEARCH POSITIONING

- Senior semantic-web / ontology expert
- Knowledge graph product or platform lead
- Data interoperability and governance specialist
- R&D / innovation project manager

CORE SKILLS

- RDF(S), OWL, SHACL, SKOS/SKOS-XL
- Ontology engineering and vocabulary governance
- SPARQL, R2RML, ETL/data-to-RDF pipelines
- GraphDB, Virtuoso, Jena, RDF4J, JSON-LD
- Python, Java, Protégé, OpenRefine, REST APIs
- Semantic validation, benchmarking and quality
- FAIR data, Linked Data, open and geospatial data
- AI/NLP applications over knowledge graphs

LANGUAGES

- French: professional/native level
- English: professional working level
- Spanish: professional working level

PROFILE

Senior semantic-web and knowledge-graph specialist combining EU public-sector interoperability, industrial R&D leadership and academic research. Proven ability to design reusable ontologies, govern vocabularies (EU Rail ontology), validate data with SHACL, publish Linked Data and translate regulatory or technical requirements into operational data products.

VALUE PROPOSITION FOR EMPLOYERS

- Turn complex regulatory, domain or scientific knowledge into maintainable semantic models, data products and validation assets.
- Bridge business/domain experts, IT delivery teams and research partners; communicate clearly with technical and non-technical stakeholders.
- Bring credibility from standards work, peer-reviewed publications, EU data interoperability and hands-on implementation.

PROFESSIONAL EXPERIENCE

2023-Present Project Officer, Operational Data Unit | European Union Agency for Railways (ERA), Valenciennes, France

- Drive Linked Data and knowledge-graph initiatives for operational and regulatory railway assets, supporting data interoperability, governance and quality across ERA registers.
- Contribute ontology, SHACL and reference-data practices that align technical implementation with regulatory needs and reusable European data assets.
- Build bridges between domain experts, IT teams and data stakeholders through forums, documentation and practical semantic-web examples.

2017-2023 R&D Director / Head of Mondeca Labs | Mondeca, Paris, France

- Led R&D programmes in semantic technologies, knowledge graphs and industrial data integration, from proposal shaping to technical delivery.
- Coordinated funded projects including ANR and RAPID-DGA actions on constrained Web of Things, KG/NLP pipelines and disinformation identification.
- Supervised teams and partnerships, turning research outputs into reusable methods, demonstrators and client-ready semantic platforms.

2011-2017 Research Engineer / PhD Researcher | EURECOM, Telecom ParisTech and partners

- Researched publication and consumption of geospatial and government data on the Semantic Web; built data-lifting and vocabulary services.
- Contributed to DataLift and Linked Open Vocabularies (LOV), supporting discovery, reuse and governance of RDF vocabularies.

2009-2011 Researcher | Ontology Engineering Group, UPM & Universidad Complutense de Madrid

- Worked on multimedia ontologies, semantic annotation and multi-agent systems; developed methods for analysing and ranking ontologies for reuse.

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RECOGNITION

- Semantic Web Journal Outstanding Paper Award, 2017 (LOV).
- Best workshop paper, ESWC 2018 QuWeDa.
- Best Concept Award, ISWC 2011 Linked Data-a-thon.

STANDARDS AND SERVICE

- W3C participation: GLD WG, Data on the Web Best Practices WG, RDF-star CG.
- Co-editor of W3C notes: Linked Data Glossary; Best Practices for Publishing Linked Data.
- Reviewer / PC: ESWC, Semantic Web Journal, Journal of Web Semantics, IEEE venues.

METHODS AND TOOLS

- Ontology reuse and modularisation
- SHACL validation and quality gates
- Vocabulary catalogues and governance workflows
- RDF store benchmarking and publication workflows
- Research proposals, technical roadmaps, stakeholder workshops

TARGET ENVIRONMENTS

- EU institutions, agencies and data offices
- Transport and infrastructure data ecosystems
- Semantic-web / knowledge-graph vendors
- Research and innovation programmes

EDUCATION AND TRAINING

2015 Ph.D. in Computer Science - Telecom ParisTech - Thesis: Publishing and Consuming Geo-spatial and Government Data on the Semantic Web.

2010 M.Sc. in Artificial Intelligence - Universidad Politecnica de Madrid, Ontology Engineering Group - Thesis on ranking multimedia ontologies for reuse.

2008 Master in Information Technologies and Systems - Universite de Picardie Jules-Verne, France; earlier computer-science studies at Universite de Yaounde I, Cameroon.

SELECTED PROJECTS AND IMPACT

- CoSWoT (ANR, 2020-2024): semantic Web of Things under constraints; ontology and integration work.
- DIEKB (RAPID-DGA, 2019-2022): knowledge-graph/NLP approach for disinformation identification; technical coordination.
- Linked Open Vocabularies (LOV): long-running community registry enabling RDF vocabulary discovery, reuse and quality assessment.
- EU Publications Office RDF graph benchmark: evaluation workflows for RDF stores and publication pipelines.
- DataLift: end-to-end chain for lifting and publishing public data as Linked Data.

SELECTED PUBLICATIONS

- Hyland, B.; Ateazing, G.; Villazon-Terrazas, B. Best Practices for Publishing Linked Data. W3C Working Group Note, 2014.
- Vandenbussche, P.-Y.; Ateazing, G.; Poveda-Villalon, M.; Vatan, B. Linked Open Vocabularies (LOV). Semantic Web Journal, 2017.
- Assaf, A.; Ateazing, G.; Troncy, R.; Cabrio, E. What Are the Important Properties of an Entity? ESWC 2014.
- Ateazing, G.; Corcho, O.; Garijo, D.; et al. Transforming Meteorological Data into Linked Data. Semantic Web Journal, 2012.
- Guelorget, P.; Icard, B.; Ateazing, G.; et al. Combining Vagueness Detection with Deep Learning to Identify Fake News. FUSION 2021.

TEACHING, CONFERENCES AND COMMUNITY

- Lecturer / visiting teaching contributions: Sorbonne Universite (MIAGE IKSEM), Universite Paris Cite, ISEP and CNAM.
- Speaker/tutorial contributor at W3C, INSPIRE and semantic-web venues; experienced in presenting technical content to mixed audiences.
- Community-oriented profile combining implementation, standards, research and public-sector data interoperability.