STEFANO DE GIORGIS

AREAS OF INTEREST

- Knowledge Representation
- Conceptual Modeling
- Frame Semantics
- Cognitive Semantics
- Semantic Web Technologies
- Artificial Intelligence

CONTACTS

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https://stendoipanni.github.io/

TECHNICAL SKILLS

Python
Bash

OWL
RDF / RDFS
SPARQL

ABOUT ME

I was born in Turin, Italy, in 1993.
I've always been interested in language and semantic technologies: these interests drove me to Alma Mater Studiorum, in Bologna, where I graduated in Linguistics Sciences.
I am currently a PhD student in Digital Humanities.
My research is focused on cognitive semantics, in particular on the formalization of values - as intended in ethics - with a strong commitment to embodied cognition perspective, structured via a frame semantics approach.

LANGUAGES

Italian
Native Speaker
English
Excellent Command
IELTS score: 8
French
Good Command

EDUCATION

2019 - Current
Alma Mater University of Bologna
PhD in Digital Humanities and Digital Knowledge:
"*Ethics in the Flesh - Formalizing Moral Values with Frame Semantics and Embodied Cognition*"

Supervisor:
prof. Aldo Gangemi
prof. Gilberto Corbellini
prof. Elisabetta Sirgiovanni

2017 - 2019
Alma Mater University of Bologna
Master Degree in Italianistics and Linguistic Sciences:
"*Post-truth, populism and knowledge extraction - A frame semantics approach to Indirect Hate Speech*".

Supervisor: prof. Aldo Gangemi
Co-Supervisor: Dr. Mehwish Alam
110/110 with honors

ACADEMIC PUBLICATIONS

2023

De Giorgis S., Gangemi A., Gromann D., **"ImageSchemaNet: Formalizing embodied commonsense knowledge providing an imageschematic layer to framester.",** Semantic Web Journal, 2022.

De Giorgis S., Gangemi A., **"That's All Folks: a KG of Values as Commonsense Social Norms and Behaviors"**, arXiv preprint arXiv:2303.00632, 2023.

Lucifora C., Mongiovì M., Bulla L., De Giorgis S., Gangemi A., **"Comparing User Perspectives In a Virtual Reality Cultural Heritage Environment"**, International Conference on Advanced Information Systems Enginnering (CAiSE). 2023.

2022

De Giorgis S., Gangemi A., Damiano R., **"Basic Human Values and Moral Foundations Theory in ValueNet Ontology."** International Conference on Knowledge Engineering and Knowledge Management (EKAW). Springer, Cham, 2022. [Best Paper Nomination]

Asprino L., Bulla L., De Giorgis S., Gangemi A., Marinucci L. Mongiovì M., **"Uncovering Values: Detecting Latent Moral Content from Natural Language with Explainable and Non-Trained Methods."** Proceedings of Deep Learning Inside Out (DeeLIO 2022): The 3rd Workshop on Knowledge Extraction and Integration for Deep Learning Architectures. 2022.

De Giorgis, S., Gangemi A., Gromann D., **"The Racing Mind and the Path of Love: automatic extraction of image schematic triggers in knowledge graphs generated from natural language."** Proceedings of Sixth Image Schema Day, 2022.

De Giorgis, S., Gangemi A., **"Introducing ODIN: Ontological Design grounded in Image-schematic kNowledge"** Proceedings of the 13th edition of Workshop on Ontology Design and Patterns (WOP), 2022.

De Giorgis S., Gangemi A., Gromann D.**"Introducing ISAAC: the Image Schema Abstraction And Cognition Modular Ontology"** Proceedings of Joint Ontology Workshop - Cognition and Ontologies (JOWO - CAOS), 2022.

Pomarlan M., Hedblom M., De Giorgis S., Diab M., Tsiogkas N. **"Thinking in front of the box: Towards intelligent robotic action selection for navigation in complex environments using image-schematic reasoning"**, Proceedings of Joint Ontologies Workshop - Ontologies for Robotics (JOWO- RobOntics) 2022.

De Giorgis S., Gangemi A., **"Exuviae: a conceptual exoskeleton for formal epistemological comparison."** Graphs and Networks in the Humanities (GrapHum), 2022.

2021

De Giorgis S., Gangemi A., **"Making Image Schema Logic viable for Empirical Cognitive Robotics.",** AISC - Italian Association for Cognitive Sciences, 2021.

UNDER REVIEW

De Giorgis S., Gangemi A., **"The Emotion Frame Ontology",** International Semantic Web Conference (ISWC) 2023

ACADEMIC ROLES AND ACTIVITIES

ISWS 2022 - International Semantic Web Summer School - **Assistant Tutor**
JOWO 2022 - Joint Workshop of Ontologies - **PC Member**
ICCC 2022 - International Conference of Computational Creativity - **PC Member**
IAOA - International Association for Ontology and its Applications - **Member**
AISC 2022 - Italian Association for Cognitive Sciences - **Reviewer**
WOP 2021 - Workshop on Ontology Design and Patterns - **PC Member**
ISWS 2019 - International Semantic Web Summer School - **Participant**

TEACHING AND PROJECT SUPERVISION

Master Thesis Co-Supervision in Information Technologies and Knowledge Management,
"Emotions and their Semantic Context: Methods and Approaches for Modelling the Emotional Experience in Literary Texts"
Candidate: Sara Coppini
Supervisor: prof. Aldo Gangemi
Co-supervisor: Stefano De Giorgis

Students' Assistant Tutor for the Knowledge Engineering course at AI master Degree.

PROJECTS INVOLVEMENT

I'm actively involved in the **SPICE H2020 European Project** n° 870811.
I designed and modeled several ontologies for the SPICE linked data hub, in particular I'm the responsible for the ValueNet ontology network, dedicated to the formalisation of moral and cultural values.
In addition to the above mentioned scietific publication I co-authored 4 SPICE deliverables curating the parts dedicated to ValueNet description and implementation, and developed an automatic value detector that is actively contributing in enriching data from SPICE partner's cultural heritage institutions.
I've been invited to present my work at the kickoff meeting of the **VALAWAI project**, focused on AI for moral values and awareness, and I bridged contacts between the SPICE project and the **VAST project**, focused on representing Values Across Space and Time.