

Claudio Greco

Curriculum Vitæ

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Work Experience

- Feb. 2022 - **Research Fellow**, *Heriot-Watt University*, Edinburgh, United Kingdom
Present Project about designing and developing trustworthy conversational agents which are able to adapt in order to better align to human values in the UKRI TAS Node on Trust.
Advisor: Helen Hastie.
- Jun. 2019 - **Research Intern**, *SAP Machine Learning Research*, Berlin, Germany
Nov. 2019 Internship on Continual Learning and Multimodal Learning.
Supervisors: Moin Nabi, Tassilo Klein.

Education

- 2022 **PhD Degree in Cognitive and Brain Sciences**, *Center for Mind/Brain Sciences (CIMEC), University of Trento*, Italy
Dissertation title: Transfer Learning and Attention Mechanisms in a Multimodal Setting.
Thesis topics: Continual / Transfer Learning, Transformers, and Multimodal Learning.
Supervisor: Raffaella Bernardi (Oversight committee: Marco Baroni, Raquel Fernández).
- 2017 **Master's Degree in Computer Science**, *Università degli Studi di Bari*, Italy
Full marks with honors (110/110 cum laude) and special commendation by the commission.
Thesis on a conversational content-based recommender system based on hierarchical deep reinforcement learning techniques.
Supervisors: Pierpaolo Basile, Giovanni Semeraro.
- 2014 **Bachelor's Degree in Computer Science**, *Università degli Studi di Bari*, Italy
Full marks with honors (110/110 cum laude).
Thesis on the discovery and tracking of organizational structures in event logs exploiting social network analysis techniques.
Supervisors: Annalisa Appice, Donato Malerba.

Academic Experience

- Nov. 2017 - **Teaching Assistant in Computational Linguistics**, *Center for Mind/Brain Sciences (CIMEC), University of Trento*, Italy
Dec. 2021 Taught laboratory lessons and tutored students in the Computational Linguistics course of University of Trento's M.Sc. degree in Cognitive Science (Lecturer: Raffaella Bernardi).
- Apr. 2018 - **Co-organizer of Scientific Discussion Events**, *Center for Mind/Brain Sciences (CIMEC), University of Trento*, Italy
Apr. 2019 Co-organized a series of weekly scientific discussion events where researchers were encouraged to discuss about different research topics.

Summer Schools

- 16 Jul. 2018 - **Transylvanian Machine Learning Summer School**, *Cluj-Napoca, Romania*
22 Jul. 2018 Attended classes and laboratory lessons on Deep Learning and Reinforcement Learning.

Technical Skills

Languages	Python, C, C++, Java, Matlab, Lua, R, Haskell, Prolog, SQL, XML, RDF, OWL, HTML, CSS, Javascript, Bash, LaTeX
Libraries	PyTorch, Tensorflow, scikit-learn, NumPy, SciPy, spaCy, NLTK, OpenCV, Hugging Face Transformers / Diffusers / Datasets, PyTorch Lightning, Weights and Biases, Gradio, Streamlit, Flask, FastAPI, Apache Hadoop
Databases	MySQL, PostgreSQL, MongoDB, Elasticsearch
Virtualiz. tools	Docker
Cloud platforms	Amazon Web Services, Google Cloud Platform, Oracle Cloud Infrastructure
Distrib. version control systems	Git
Operating systems	Linux, MacOS, Windows

Languages

Italian	Native
English	Fluent
French	Basic

Selected Publications

- Greco, C., Bagade, D., Bernardi, R., & Dieu, T. (2022a). She adapts to her student: An expert pragmatic speaker tailoring her referring expressions to the layman listener. *Frontiers in Big Data, Women in Machine Learning and Artificial Intelligence 2022*. (Under Review).
- Greco, C., Testoni, A., Bernardi, R., & Frank, S. (2022b). A small but informed and diverse model: The case of the multimodal guesswhat!? guessing game. In *Proceedings of the 2022 CLASP Conference on (Dis) embodiment*, (pp. 1–10).
- Greco, C., Plank, B., Fernández, R., & Bernardi, R. (2019). Psycholinguistics meets continual learning: Measuring catastrophic forgetting in visual question answering. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics*.
- Greco, C., Suglia, A., Basile, P., & Semeraro, G. (2017). Converse-et-impera: Exploiting deep learning and hierarchical reinforcement learning for conversational recommender systems. In *Conference of the Italian Association for Artificial Intelligence*, (pp. 372–386). Springer.
- Suglia, A., Hemanthage, B., Nikandrou, M., Pantazopoulos, G., Parekh, A., Eshghi, A., Greco, C., Konstas, I., Lemon, O., & Rieser, V. (2022). Demonstrating emma: Embodied multimodal agent for language-guided action execution in 3d simulated environments. In *SIGDIAL Conference*.
- Testoni, A., Greco, C., & Bernardi, R. (2021). Artificial intelligence models do not ground negation, humans do. guesswhat?! dialogues as a case study. *Frontiers in big Data*, 4.
- Pezzelle, S., Greco, C., Gandolfi, G., Gualdoni, E., & Bernardi, R. (2020). Be different to be better! a benchmark to leverage the complementarity of language and vision. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing: Findings*, (pp. 2751–2767).