Dr. Agnese Chiatti's CV

Affiliation & Contacts	Artificial Intelligence and Robotics Lab (AIRLab) Department of Electronics, Information, and Bioengineering (DEIB) Politecnico di Milano, Milan, Italy agnese.chiatti@polimi.it Personal Webpage Google Scholar
Professional experience	● [June 2023 - Present] Postdoctoral Researcher at POLIMI (Italy) ● [Oct 2022 – June 2023] L'Oréal-UNESCO Visiting Fellow at POLIMI (Italy) ● [June 2018 - Mar 2023] Research Assistant at The Open University (UK) ● [Aug 2016 – May 2018] Research and Teaching Assistant at Penn State University (USA) ● [June 2015 - June 2016] Employee in the R&D - Innovation Unit at Hera Group (Italy) ● [Feb 2015 - May 2015] Intern at CRIF - Business Analyst - Decision Solutions team (Italy)
Education	● [Oct 2019 - Sep 2022] PhD, The Open University (UK). Awarded on 14/12/2022 Thesis: "Visually Intelligent Agents: Improving Sensemaking in Service Robotics" Supervisors: Prof. Enrico Motta, Dr. Enrico Daga ● [Aug 2016 - Aug 2019] MS in Information Sciences and Technology, Penn State (USA) ● [Nov 2012 - Sep 2014] MS in Industrial Engineering and Management, POLITO (Italy)
Research grants	[Apr 2024] Seal of Excellence for the MSCA Fellowship. Grant proposal "ReFiNe: Redefining Field robot deployment through Neuro-symbolic visual sensemaking". [Oct 2022- May 2023] L'Oréal-UNESCO for Women in Science Fellowship (20k€). Grant proposal on Neuro-symbolic AI methods to improve robots' visual perception for agricultural applications.
Selected Publications	● Chiatti, A., Bertoglio, R., Catalano, N., Gatti, M., and Matteucci, M. Surgical fine-tuning for Grape Bunch Segmentation under Visual Domain Shifts. In *Proceedings of the European Conference on Mobile Robots* (ECMR23). ● Chiatti, A., Bardaro, G., Matteucci, M., and Motta, E. (2023) Visual Model Building for Robot Sensemaking: Perspectives, Challenges, and Opportunities. *Bridge Session on AI and Robotics of the thirty-seventh AAAI conference on Artificial Intelligence* (AAAI-23). ● Chiatti, A., and Daga, E. (2022) Neuro-symbolic learning for dealing with sparsity in cultural heritage image archives: an empirical journey. In *Proceedings of the 21st International Semantic Web Conference - Workshop on Deep Learning for Knowledge Graphs (DL4KG)*. ● Chiatti, A., Bardaro, G., Motta, E., and Daga, E. (2022) A Spatial Reasoning Framework for Commonsense Reasoning in Visually Intelligent Agents. In *Proceedings of the 8th International Workshop on Artificial Intelligence and Cognition (AIC)*. ● Chiatti, A., Motta, E., and Daga, E. (2022) Robots with Commonsense: Improving Object Recognition through Size and Spatial Awareness. In *Proceedings of the 2022 AAAI Spring Symposium on Machine Learning and Knowledge Engineering for Hybrid Intelligence*. ● Chiatti, A., Motta, E., and Daga, E. (2020) Towards a Framework for Visual Intelligence in Service Robotics: Epistemic Requirements and Gap Analysis. In *Proceedings of the 17th International Conference on Principles of Knowledge Representation and Reasoning (KR)*.
Academic service	Organizing Committee: DEEPFIELD workshop on "Deploying mobile robots in unconstrained real-world environments" at ECMR 2023 Assistant Chair: the 2022 KR Special Session on KR and Robotics PC member: Semantics2024, ESWC2024 workshop on Actionable Knowledge Representation and Reasoning for Robots, KR conference (2022, 2023), ISWC 2023 Workshop on Deep Learning for Knowledge Graphs (DL4KG), ISWC 2023 Doctoral Consortium.
Other activities	● [Mar 2023 - Present] Supervised four Master Students at AIRLab POLIMI. ● [ongoing] Instructor of training events for STEM school teachers and students in Italy. ● Teaching modules - Teaching Assistant for the Penn state MS/PhD course on Information Retrieval and Search Engines; the Penn State BSc course on Organization of Data. ● Finalist for the 2022 John McCarthy award for Italian researchers in AI under 35. ● Co-led a team of MS students at the 2021 Smart Cities Robotics Challenge 1st place on the task of autonomously controlling a humanoid robot to manoeuvre a shopping cart. ● [2020-2022] Member of the KMi Athena Swan team, promoting gender equality, diversity, and inclusion at the Knowledge Media Institute (KMi). ● [2021-2022] Co-host of the "KMi Maven of the Month", a series of virtual Q&A sessions with AI experts on broad socio-technical topics (AI & Ethics, Digital Misinformation, and others).