DAVIDE SOLDÀ

M.Sc in Computer Science

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EXPERIENCE

Research Assistant

FBK   📅 Apr 2022 - Sept 2022   ⚲ Trento, Italy

- Working on a runtime-verification component of an autonomous system for ESA.

Curricular Internship

OsmerFVG   📅 Mar 2019 – Sept 2019   ⚲ Udine, Italy

- Worked with a researcher and a master CS student on meteorological datasets.
- Used **numpy** and **pickle** to manipulate weather maps treated as images and to feed them to **keras** models, both built-in and self-written.
- At the same time I contributed to the use of **Atmoswing**, a software written in **cpp** that optimizes the parameters of a statistical model via genetic algorithms.

EDUCATION

PhD student at TUWien

Università degli Studi di Udine

📅 Sept 2022 – Sept 2026   ⚲ Vienna, Austria

Project: Distributed Stream Reasoning

Excellence programme, Computer Science

Scuola Superiore dell'Università degli Studi di Udine

📅 Oct 2019 – Mar 2022   ⚲ Udine, Italy

- Selected as one of *3 science bachelor graduate* students to receive *2-year full scholarship*.

Master's Degree in Computer Science

Università degli Studi di Udine

📅 Oct 2019 – Mar 2022   ⚲ Udine, Italy

Final Score: 110L/110

Bachelor's Degree in Computer Science

Università degli Studi di Udine

📅 Oct 2016 – Oct 2019   ⚲ Udine, Italy

Final Score: 110L/110

LANGUAGES

Italian   English   German (A2)

MY PROJECTS

- **Epistemic reasoner integrated in ROS**:
  - Using an epistemic planning solver developed by a phd student of the University of Udine and a classic planning solver written from scratch in **C++** and **ASP**.
  - Everything integrated in **ROS** and actually working on **Franka** robots.
  - The two planners interact with each other in a **client-server** mode, in which some single-agent tasks are computed by the classical planner solver.
- A **front-end compilator** for a language with E-like syntax:
  - Written in **Haskell** in collaboration with two other students.

PUBLICATIONS

- D. Soldà et al. Deep Learning for forecasting Thunderstorms on NE Italy. 10th European Conference on Severe Storms (**ECSS**), Krakow (PL) 4-8 November 2019.
- D. Solda' et al. Epistemic Multiagent Reasoning with Collaborative Robots. CILC 2022.
- M. Bozzano, et al. Robdt: Ai-enhanced digital twins for space exploration robotic assets, in AII2022, September 2022.
- D. Soldà, et sl. ECHO: a Hierarchical Combination of Classical and Multi-Agent Epistemic Planning Problems, in Journal of Logic and Computation (JLC), 2023.

SKILLS

C++ & cmake   Python & keras   emacs   Linux   ASP   R   Haskell   SQL

INTERESTS

Automated Reasoning   Deep Learning   Quantum Computing   Automaton Theory   Non-Monotonic Logics   Runtime Verification

OTHER

- For 5 years, section councilor for blood donors.
- For 4 years, Italian teacher in a reception center.