Daniele Grattarola

danielegrattarola.github.io

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Via Marco da Carona, 1 – 6900 Lugano (TI), Switzerland

EDUCATION

Università della Svizzera Italiana – Doctorate   **Since Nov, 2017**

Machine Learning, with focus on deep learning and reinforcement learning for change detection, diagnostics, and control of dynamic systems in non-euclidean spaces like graphs and manifolds.

Politecnico di Milano – Master's Degree (110/110 cum laude)   **2015 - 2017**

Computer Science and Engineering, with focus on AI, machine learning, and recommender systems.

Relevant coursework: Machine Learning, Artificial Intelligence, Game Theory, Recommender Systems, Natural Language Processing, Knowledge Engineering, Software Engineering.

Politecnico di Milano – Bachelor's Degree (99/110)   **2012 - 2015**

Computer Science and Engineering

EXPERIENCE & PROJECTS

Open source   **github.com/danielegrattarola**   **Ongoing**

Published several personal projects in deep learning and reinforcement learning. Some of the repositories have been integrated by third parties in business and academic contexts.

Master's Thesis   **Politecnico di Milano**   **Nov, 2016 – Oct, 2017**

Developed a novel algorithm for sample-efficient deep reinforcement learning, under the supervision of Prof. Restelli. The approach performed competitively with state-of-the-art methods on the Atari environments.

Keywords: deep learning, reinforcement learning, Python, Keras, TensorFlow, Scikit-learn.

Best academic team   **ACM Recsys Challenge 2017**   **Spring, 2017**

Tackled a *cold-start* job recommendation scenario for Xing.com, as part of a 9-person team from Politecnico di Milano. We qualified as best academic team (second best overall), and published our methodology in the Recsys proceedings.

DOI: 10.1145/3124791.3124793
Keywords: recommender systems, machine learning, Python, Numpy, team, competition.

Third best team   **Cisco DevNet Paris Hackathon**   **Apr, 2016**

Developed *Gaia*, an Android app to raise environmental awareness based on the *iBeacon* technology, during a 48-hour hackathon in Paris. Our team of four master students was invited to participate after winning the *Techradar for Innovation* award at the 2015 *Cisco DevNet Live! Hackathon* in Milan.

Keywords: IoT, Android, Java, environment, team.

Android developer   **Freelance**   **Winter, 2015**

Developed and published **_Thought – Local forum_**, an Android communication app based on Google's Nearby API. The app can be used to share content to nearby users, working as a forum for local public discussion.

Keywords: Android, Java, social.

TECHNICAL SKILLS

Programming	**Python**, Java, C
Web	HTML5, JavaScript, Jekyll
OS	**Linux**, Windows, MacOS
Software	PyCharm, Android Studio, git, Photoshop, MATLAB, Latex
Other	**TensorFlow**, **Keras**, **Numpy**, **Scikit-learn**, Pandas

LANGUAGES

Italian	Native speaker
English	C1 (Cambridge English: Advanced – CAE)
Spanish	Elementary proficiency