

# Daniele Grattarola

[danielegrattarola.github.io](https://github.com/danielegrattarola)

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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 for change detection, diagnostics, and control of complex systems in non-euclidean spaces.

**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](https://github.com/danielegrattarola) **Ongoing**

Published several deep learning, reinforcement learning, and NLP personal projects. 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 M. Restelli. The approach performed competitively with state-of-the-art methods on small datasets from the Atari games.

*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, 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

<b>Programming</b>	Python, Java, C
<b>Web</b>	HTML5, JavaScript, Jekyll
<b>OS</b>	Linux, Windows, MacOS
<b>Software</b>	PyCharm, Android Studio, git, Photoshop, MATLAB
<b>Other</b>	TensorFlow, Keras, Numpy, Scikit-learn, Pandas, Graphlab, SQL

## LANGUAGES

<b>Italian</b>	Native speaker
<b>English</b>	C1 (Cambridge English: Advanced – CAE)
<b>Spanish</b>	Elementary proficiency