Emanuele Rossi

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EDUCATION

University of Cambridge, Cambridge — *Master in Advanced Computer Science*

OCTOBER 2018 - JUNE 2019

Expected grade: **Distinction** (equivalent of 4.0 GPA) Thesis: "**Graph Deep Generative Models for RNA generation**".

Modules:

- L90: Overview of Natural Language Processing
- L101: Machine Learning for Language Processing
- LE49: Probabilistic Machine Learning
- R250: Advanced Topics in Machine Learning
- R252: Machine learning for programming

Imperial College London, London — Bachelor in Computer Science

OCTOBER 2015 - JUNE 2018

Graduated with First Class Honours (equivalent of 4.0 GPA)

Worked for two terms as an **Undergraduate Maths Teaching Assistant**, running weekly tutorials with first-year
Computer Science students.

Awards:

- Engineering Dean's List in both first and second year.
- Gloucester Research and Olav Beckmann prizes, both for academic excellence.
- President Undergraduate Scholarship, a scholarship based on merit and awarded to only 112 people out of ~2600 first year Imperial students.

PERSONAL PROJECTS

Uncertainty Estimation in CNNs — 2019

Standard neural networks lack a principled way to measure the uncertainty in their predictions. We propose a model for image classification which combines convolutional neural networks and gaussian processes to achieve high accuracy and scalability, while also precisely estimating the uncertainty in its predictions. *Pytorch*

Adversarial Attacks on Natural Language — 2018

Developed **novel white-box** and **black-box** adversarial **attacks** targeting machine learning models for **natural language**. *Python*, *Keras*

LeadTheFuture — 2017-present

Co-Founder of LeadTheFuture, a non-profit organization which provides **free mentorship to over 100 Italian students in STEM** both from high-school and from university.

WORK EXPERIENCE

Fabula AI, London — Data Scientist

MARCH 2019 - PRESENT

Researching and developing **novel geometric deep learning models** for **fake news classification**. *Python*, *TensorFlow*, *GPU*

Imperial College London, London — Research Intern

APRIL - SEPTEMBER 2018

Worked under the supervision of **Prof. Michael Bronstein** on **Graph Convolutional Networks**, focusing on the task of predicting tweets virality.

We devised **new models** which are able to learn from graph-structured data and outperform current methods for tweet virality prediction. *Python*, *TensorFlow*, *GPU*

Google, Mountain View — Software Engineering Intern

IULY - OCTOBER 2017

Developed and deployed a full-stack system to automate the process of retrieving and displaying the most important test quality metrics of the **Google Play Store** infrastructure. The system is now used internally by several teams at Google. *Java*, *ProtoBuf*, *BiqQuery*

G-Research, London — Software Engineering Intern

JULY - OCTOBER 2016

Developed a full-stack **monitoring service** for a distributed system based on a **microservices architecture** that makes use of messaging service **Apache Kafka**. C#, .Net, Kafka, ProtoBuf

AWARDS AND ACHIEVEMENTS

Bronze medal at Informatics Olympiads

SEPTEMBER 2014

Won a bronze medal (ranked 19th overall) at the **Italian Olympiad in Informatics** (OII), a programming competition with a high focus on algorithms where each year approximately 13,000 students compete against each other.

Member of the winning team of the Italian Olympiads in Informatics for teams

APRIL 2014

Captain of the 5 membered team which **ranked 1**st among all participating high schools in the country.