

Gabriele Graffieti

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OBJECTIVE	Short term: placement in a PhD position that allows for advanced research in deep learning, with particular focus on generative models, generative adversarial networks, optimization for deep models and image understanding. Long term: be a valuable member of the scientific community.
CITIZENSHIP	Italy
EDUCATION	<p>Alma Mater Studiorum Università di Bologna, Cesena (FC), Italy</p> <ul style="list-style-type: none">▪ M.S. in Computer Science and Engineering Sep 2016 – Dec 2018<ul style="list-style-type: none">• 110L / 100 - Magna cum Laude• GPA: 29.88 / 30• Thesis: Style Transfer with Generative Adversarial Networks• Adviser: Prof. Davide Maltoni• Focus: Artificial intelligence, machine learning▪ B.S. in Computer Science and Engineering Sep 2013 – Jul 2016<ul style="list-style-type: none">• 110L / 110 - Magna cum Laude• GPA: 29.81 / 30• Thesis: Progettazione e implementazione di una incarnazione biochimica per il simulatore Alchemist• Adviser: Prof. Mirko Viroli <p>ITT Blaise Pascal, Cesena (FC), Italy</p> <ul style="list-style-type: none">▪ Scientific high school, focus on computer science Sep 2008 – Jul 2013<ul style="list-style-type: none">• 100 / 100
PROFESSIONAL EXPERIENCE	<p>DISI - Alma Mater Studiorum Università di Bologna, Cesena (FC), Italy</p> <ul style="list-style-type: none">▪ Research fellow Mar 2019 – now<ul style="list-style-type: none">• <i>Machine learning and biometrics</i>• Supervisor: Prof. Davide Maltoni <p>Netrising, Cesena (FC), Italy</p> <ul style="list-style-type: none">▪ Software developer Jul 2014 – Oct 2014<ul style="list-style-type: none">• <i>Research & Development Division</i>• Development of web apps for mobile devices.• Creation of a tool for the automatic generation of web apps, in order to let the clients build their own apps starting from some basic templates. <p>WMW.it, Cesena (FC), Italy</p> <ul style="list-style-type: none">▪ Web developer May 2012 – Feb 2013<ul style="list-style-type: none">• <i>Research & Development Division</i>• Web development using the Symfony web framework.• Summer stage during the 4th year of high school, further extended for six months.
OTHER ACTIVITIES	<p>Open source contributor</p> <ul style="list-style-type: none">▪ Alchemist: development of a biochemical incarnation for the Alchemist simulator, in order to simulate cellular and multi-cellular behaviors. URL: https://github.com/AlchemistSimulator/Alchemist▪ Frequent contributor to Wikipedia (italian and english versions). <p>Competition</p> <ul style="list-style-type: none">▪ Selected for the Italian Olympiad in Informatics 2012.▪ Represented University of Bologna in the Southwestern Europe Regional Contest (SWERC) 2014. <p>Associations</p> <ul style="list-style-type: none">▪ Member of AI for people.▪ Advisory Board Member of Data Science Bologna▪ Member of amateur astronomy association of Cesena.▪ Member of Italian association for machine learning

LANGUAGES

- Italian: Native language.
- English: Full professional.
 - **IELTS**, British Council: 7.5 (C1), taken on 3 Nov. 2018.
- Spanish: Limited working.

SKILLS

Computer programming and software design:

- Python, Scala, Java, C, C++, C#, Prolog, MATLAB (basic), Go, Unix shell scripting, SQL and others
- Machine learning libraries: numpy, scikit-learn, pytorch, tensorflow
- Language design with the ANTLR framework
- Object oriented design
- Distributed and pervasive systems
- Mobile programming (Android)

Software engineering and productive teamwork:

- Distributed Version Control Systems (Mercurial, Git)
- Build systems (Gradle)
- Continuous Integration (Travis CI, drone.io)
- Automated software deployment

Information/Internet Technology:

- Markup languages (XML, HTML, Markdown)
- Web languages (PHP (Symfony), javascript (mootools, jquery), typescript, CSS, SCSS, Angular, node, express, Jekyll)
- Database manipulation with SQL and mongoDB
- Networking (UDP, TCP, ARP, DNS)

Operating Systems:

- Linux, with specific skills for Fedora, Ubuntu and Arch
- Other UNIX variants
- Microsoft Windows family

Productivity Applications:

- LATEX, XELATEX, BibTEX
- Common productivity packages (for Windows and Linux platforms)

Multimedia (basic knowledge):

- Scalar image editing and analysis (Photoshop, GIMP)
- RAW image processing
- 3D Design (Blender)
- 3D Programming (OpenGL)

EXPERTISE

Mathematics:

- Applied Mathematics, Real and Complex Analysis, Discrete Mathematics, Geometry, Optimization, Statistics.

Physics:

- Mechanics, Electromagnetism, Quantum mechanics (basic).

Communications and Signal Processing:

- Probability, Random Variables, Stochastic Processes, Networks

Computer Science and Engineering:

- Component-Based Reusable Software, Object Oriented Programming, Logic Programming, Functional Programming, Concurrent Programming, Distributed Systems

Natural Sciences:

- Earth science, chemistry, bio-chemistry, astronomy, cosmology

INTERESTS

Music (guitar), astronomy, cosmology, subatomic physics, cognitive science, philosophy of science, impact of AI on society, environmentalism, tennis

REFERENCES

- **Professor Davide Maltoni**

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- **Professor Mirko Viroli**

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- **Jean-Philippe Tarel**

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[CV compiled on 2019-05-09]