Davide Belli

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EDUCATION

University of Amsterdam, MSc in Artificial Intelligence
Graduated September 2019
GPA: 8.8/10 (cum laude)

University of Trento, BSc in Computer Science
Graduated July 2017
GPA: 110/110 (cum laude)

Liceo Enrico Fermi, Scientific High school
Graduated July 2014
GPA: 100/100

SKILLS

Languages
Italian (Native speaker)
English (Proficient, IELTS 7.5)

Programming
Python (PyTorch, NumPy) • MATLAB
C++ • Java • Android • Node.js

Other Technologies
LaTeX • Git • SQL • XML • HTML/CSS
Adobe PS • Sony Vegas

COURSEWORK

Graduate
Machine Learning I, II
Computer Vision I, II
NLP, Deep Learning for NLP
Deep Learning
Reinforcement Learning
Information Retrieval

Undergraduate
Algorithms and Data Structures
OS, Networks, Databases
Functional and Object Programming
Web and Mobile Programming
Software Engineering I, II
Probability and Statistics
Calculus, Linear Algebra, Logics

SCHOLARSHIPS

Scholarship EEML Summer School 2019
Scholarship G. Favrini 2018-2019
Merit Grant TIM 2017-2019
Merit Award University of Trento 2017
Merit Award Confindustria 2014-2015

EXPERIENCE

Research MSc Thesis (NeurIPS 2019)
University of Amsterdam, AMLab, 2019

- Introduced deep autoregressive attentive models for image-to-graph generation. Released dataset and metric for the extraction of road networks from segmentations of satellite image. Supervisor: Thomas Kipf at AMLab.
- *Image-Conditioned Graph Generation for Road Network Extraction* was accepted at NeurIPS 2019, GRL workshop.

Teaching Assistant
University of Amsterdam, 2018 - 2019

- Teaching Assistant for Machine Learning 1, Information Retrieval 1 and Deep Learning courses for the MSc in Artificial Intelligence at UvA.
- Responsible for giving lab sessions, and correcting homeworks, lab assignments and exams.

Research Paper (ECCV 2018)
University of Amsterdam, ILLC, 2018

- Improved a multimodal learning agent for visual question answering using Mask R-CNN. Supervisor: Elia Bruni at ILLC.
- *Adding Object Detection Skills to Visual Dialogue Agents* was accepted at ECCV 2018, SiVL workshop.

Honours Project
University of Amsterdam, AMLab, 2018

- Research programme for top students at UvA. Supervisor: Shi Hu at AMLab.
- Applied Deep Generative Models to inpainting for medical diagnosis task.
- Presented our work in the papers *Chest X-ray Inpainting with Deep Generative Models* and *Context Encoding Chest X-rays*.

Internship and BSc Thesis
University of Trento, SISLab, 2017

- BSc Thesis: Implementing Chatbots into Instant Messaging Applications.
- Developed a smart instant messaging application for Android including an NLU component for recommendations. Supervisor: Giuseppe Riccardi at DISI.

COMPETITIONS

- Amsterdam Programming Contest 2019, Amsterdam, **1st place**
- ACM-ICPC Nwerc European Semi-Finals 2018, Eindhoven, top 50%
- BAPC Regionals 2018, Louvain-la-Neuve, top 50%
- ACM-ICPC Swerc European Semi-Finals 2016, Porto, **Bronze Medalist**
- Google Hashcode 2016 - 2019, best placement top 15%
- International Championships of Mathematical Games, Italian Finals 2008 - 2013, best placement **top 0.1%** (7th out of 9000)

VOLUNTEER WORK

2017 – 2019	Member and Treasurer of the Master Committee at UvA
2015 – 2017	Tutoring students in Maths, Physics and Computer Science
2010 – 2017	Kids educator, being responsible for more than 150 children