

Davide Belli

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EDUCATION

UNIVERSITY OF AMSTERDAM, MSc IN ARTIFICIAL INTELLIGENCE

Expected September 2019
GPA: 8.95/10

UNIVERSITY OF TRENTO, BSc IN COMPUTER SCIENCE

Graduated July 2017
GPA: 110/110 with honours

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. Favriani 2018-2019
Merit Grant TIM 2017-2019
Merit Award University of Trento 2017
Merit Award Confindustria 2014-2015

EXPERIENCE

RESEARCH MSc THESIS

University of Amsterdam, AMLab, 2019 (ongoing)

- Improved deep autoregressive generative models for graphs with attention.
- Introduced the Generative Graph Transformer for Image2Graph task.
- Introduced a new dataset and metric for the task: extracting road network graphs from segmented aerial images. Supervisor: Thomas Kipf at AMLab.

TEACHING ASSISTANT

University of Amsterdam, 2018 - 2019 (ongoing)

- 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 as workshop paper at ECCV 2018.

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.
- Discussed 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 to detect user intents. It controls a recommender system embedded inside user-to-user chats. Supervisor: Giuseppe Riccardi at DISI.

COMPETITIONS

- 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