

# Davide Belli

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## EDUCATION

### UNIVERSITY OF AMSTERDAM, MSc IN ARTIFICIAL INTELLIGENCE

Graduated September 2019  
GPA: 8.8/10

### 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

- 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

- 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 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%** (7<sup>th</sup> 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