

Francesco Dal Canton

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I'm a Data Scientist and Machine Learning Engineer with experience in Artificial Intelligence for medical applications, Computer Vision, Time Series Analysis, and Natural Language Processing. I'm familiar both with research and with the industry, and my focus is on applying my expertise to solve meaningful societal challenges.

Education

- 2018–present **MSc in Artificial Intelligence**, *University of Amsterdam*, Amsterdam (NL), Current grade average: 8.3/10.
- 2015–2018 **BSc in Artificial Intelligence with Honours in Philosophy**, *University of Groningen*, Groningen (NL), Grade average: 8/10.
- Program with a focus on data science, machine learning, robotics, and cognitive psychology
 - Chose to join Honours in Philosophy programme upon invitation, thanks to academic results being in the top 10 percentile of first-year students across the University
- 2010–2015 **Diploma di Maturità Classica**, *Liceo Classico "G. Marconi"*, Conegliano (IT), Grade: 83/100.
- Program with a focus on history and philosophy, ancient Latin and Greek, mathematics, and physics among other subjects

Master Thesis (in progress)

- title *Prediction of Development of Invasive Breast Cancer from Ductal Carcinoma In Situ using Histopathology Slides and Machine Learning*
- supervisors Efstratios Gavves, Jonas Teuwen
- description The study involves using histopathology slides collected from patients affected by Ductal Carcinoma In Situ (DCIS). The goal is to obtain a model for prediction of future development of Invasive Breast Cancer (IBC).

Bachelor Thesis

- title *Early Detection of Sepsis Induced Deterioration Using Machine Learning*
- supervisors Marco Wiering, Vincent M. Quinten
- description The study involves using data from the Universitair Medisch Centrum Groningen to perform time series analysis on ECG, blood oxygenation level, and respiratory rate signals gathered from over 110 patients in their first 48 hours in the hospital. The focus of the study is to predict organ failure or death caused by Sepsis, an excessive reaction to infection.
- publication The resulting paper was presented at the BENELEARN2018 conference, and was published in the relevant conference proceedings, found at https://link.springer.com/chapter/10.1007%2F978-3-030-31978-6_1

Experience

Vocational

- Nov 2019 **Internship at NKI**, *The Netherlands Cancer Institute*.
- Sep 2020 Research role aimed at analysing data for my Master's thesis
- Jun 2019 **Natural Language Data Mining Project**, *KPN*.
Project at KPN in collaboration with the University of Amsterdam
- Mar–Jun 2018 **Teaching Assistant for the course Neural Networks**, *University of Groningen*.
Main responsibilities:
- Re-designing assignments and improving course organisation
 - Giving weekly course tutorials and answering students' questions
 - Grading assignments
- Mar–Aug 2018 **Internship at UMCG**, *Universitair Medisch Centrum Groningen*.
Research role aimed at analysing data for my Bachelor's thesis

Miscellaneous

- 2013–2014 **Exchange year in Norway**, *AFS Intercultural Program*, Elnesvågen (NO).
Attended a local school, took part in all curricular classes, and extra Norwegian classes, while living with a local family

Languages

Italian	C2	<i>Mothertongue</i>
English	C2	<i>IELTS 8.5 (in 2014)</i>
Norwegian	A1	<i>Not certified</i>

Computer Skills

- Operating Systems Experienced user of both Windows and Linux-based operating systems and their standard software
- Programming Languages Fluent in Python. Familiar with Java, C, GNU Bash, Matlab, Octave. Basic knowledge of R, SQL, Prolog
- Notable Python APIs Experienced with Pandas, Scikit-learn, PyTorch, Tensorboard, OpenSlide.
- Miscellaneous Proficient with Git, Docker, Linux shell, and Latex. Familiar with ROS (Robot Operating System)

Personal skills

- Individual Organised, detail oriented, proficient at analytical thinking and problem solving
- Team Skills Diplomatic, strong at team building, communication, and at forming rapport
- Public Speaking Strong presentation skills, experienced at presenting in front of groups

Interests

- Music Played bass guitar in several bands since age 12.
Took classical guitar lessons for 7 years, and bass guitar lessons for 5 years
- Electronics Independently assembled and tested high voltage electronic circuits
- Sports Passionate about sailing and martial arts
- Others Passionate about metaphysics and philosophy of mind, psychology, late 20th century science fiction, absurdism

Extras

- Driving Italian A1 and B
License