Francesco Dal Canton

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github.com/frank

Artificial Intelligence MSc graduate with experience in working with Deep Learning, Computer Vision, and Time Series Analysis in the medical domain.

Experience

Nov 2021 – Present **Deep Learning Researcher**, *Medis Medical Imaging*.
Research and development role aimed at improving automated analysis of cardiovascular medical images for clinical applications.

May–Jul 2021 **Artificial Intelligence Analyst at NKI**, *The Netherlands Cancer Institute*.
Research role aimed at continuing and improving the work of my Master's thesis

Nov 2019 – Apr 2021 **Internship at NKI**, *The Netherlands Cancer Institute*.
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*.

Mar–Aug 2018 **Internship at UMCG**, *Universitair Medisch Centrum Groningen*.
Research role aimed at analysing data for my Bachelor's thesis

Education

2018–2021 **MSc in Artificial Intelligence (Cum Laude)**, *University of Amsterdam*, Amsterdam (NL), Grade average: 8.2/10.

2015–2018 **BSc in Artificial Intelligence (Honours in Philosophy)**, *University of Groningen*, Groningen (NL), Grade average: 8/10.

2010–2015 **Diploma di Maturità Classica**, *Liceo Classico "G. Marconi"*, Conegliano (IT), Grade: 83/100.

Master Thesis

title *Multiple-Instance Learning for Assessing Prognosis of Ductal Carcinoma In Situ*

supervisors Efstratios Gavves, Jonas Teuwen

description Used gigapixel histopathology slides collected from patients affected by Ductal Carcinoma In Situ (DCIS), and developed a Multiple-Instance Learning-based model for predicting 10-year recurrence of ipsilateral Invasive Breast Cancer (iIBC).

publication Submitted an abstract for this work at the European Congress of Pathology of 2021, and was accepted for an oral presentation.

Bachelor Thesis

title	*Early Detection of Sepsis Induced Deterioration Using Machine Learning*
supervisors	Marco Wiering, Vincent M. Quinten
description	Performed time series analysis on ECG, blood oxygenation level, and respiratory rate signals gathered from patients in their first 48 hours in the hospital. Developed machine learning models to predict organ failure or death caused by Sepsis, an excessive reaction to infection.
publication	The resulting paper was published in the proceedings of the BENELEARN2018 conference (`https://doi.org/10.1007/978-3-030-31978-6_1`)

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, Matlab. Basic knowledge of R, SQL, Prolog
Notable Python APIs	Experienced with PyTorch, Scikit-learn, Pandas, Tensorboard, OpenSlide.
Miscellaneous	Proficient with Git, Docker, Singularity, Linux shell, Latex, High Performance Computing

Languages

Italian	C2	*Mothertongue*
English	C2	*IELTS 8.5 (in 2014)*

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

Extras

Driving License	Italian A1 and B