

Davide BUFFELLI

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Italy 30 December 1994	EMAIL:	dav.buffelli@gmail.com
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ABOUT ME

My university studies focused on Algorithmics, and Machine Learning. After a six months internship experience developing Deep Learning algorithms for the analysis of medical slides, and my graduation, I decided to follow my passion for research with a six months period as a Research Fellow, and I am now a first year Ph.D. student in Information Engineering at the University of Padova. I have a broad interest in Deep Learning, with a current focus on techniques for structured data (geometric Deep Learning), complex temporal data (multimodal time series, and evolving graphs), and meta-learning.

WORK EXPERIENCE

APR. 2019-SEPT. 2019	Research Fellow at UNIVERSITY OF PADOVA, Padova Project: "Machine Learning for Temporal Data" Supervisor: Professor Fabio Vandin. The research project focused on the development of novel Deep Learning frameworks for multimodal times series.
JAN. 2019-FEB. 2019	Data Scientist, Machine Learning Engineer at MACHINE LEARNING REPLY, Milan During my time at Machine Learning Reply I had the chance to work for important clients on machine learning related projects. In particular I contributed to: <ul style="list-style-type: none">the development of a chatbot that aids financial traders in their operations.the development of an automatic system for the analysis of documents and invoices. The main technologies involved were: Python, Rasa, Google Cloud Vision, Java.
JUL. 2018-DEC. 2018	Data Science Intern at PHILIPS DIGITAL AND COMPUTATIONAL PATHOLOGY, Belfast I worked in the team responsible for the development of algorithms that aid pathologists in the analysis of medical slides (inside the TissueMark application). This implied the creation, training and validation of Deep Learning models and the engineering, processing and analysis of data. In more detail, my tasks included: <ul style="list-style-type: none">The creation of an automatic system for the tuning of hyperparameters for Deep Learning models.The development of the algorithm for the identification of the appropriate tumour regions for macrodissection for lung tissue slides (which included the analysis and engineering of data and the training and validation of Deep Learning models).The development of technical tasks to improve the overall Deep Learning infrastructure. The main technologies involved were: Python, Keras, TensorFlow.

EDUCATION

OCT. 2019 - Present	Ph.D Student in INFORMATION ENGINEERING, Università degli studi di Padova, Padova. Supervisor: Prof. Fabio VANDIN.
FEB. 2019	Master's Degree in COMPUTER SCIENCE ENGINEERING, with final grade 110/110 with honors, Università degli studi di Padova, Padova. Thesis: "A Deep Learning Model for Personalised Human Activity Recognition." Advisor: Prof. Fabio VANDIN.
JULY 2016	Bachelor's Degree in INFORMATION TECHNOLOGY ENGINEERING, with final grade 107/110, Università degli studi di Padova, Padova. Thesis: "Algorithms for the determination of node centralities in a graph." Advisor: Prof. Andrea Alberto PIETRACAPRINA.
JULY 2013	Engineering Technician in Computer Science (Secondary School Diploma), Istituto Tecnico Informatico "Alle Stimate", Verona Final Grade: 94/100.

SERVICE

- Reviewer for: *RECOMB* 2020, *ISMB* 2020

COMPUTER SKILLS

Proficient: PYTHON, JAVA

Familiar: C, APACHE SPARK, SQL, POSTGRESQL, OBJECTIVE-C, SWIFT.

I worked extensively, both in an academic and in a professional environment, with the main Machine Learning and Deep Learning libraries such as TensorFlow, PyTorch, Keras, Pandas, scikit-learn.

LANGUAGES

ITALIAN: Mother tongue.

ENGLISH: Advanced C1.