



Jacopo Acquarelli

Summary

I studied Computer Science at the University of Siena (Italy) where I got both my bachelor's and master's degree in Computer Science. During those years I have also been a co-founder of a web services oriented company for more than a year. After graduation, I spent a few months working in an IT company where I could further improve my web programming skills. Apart from those, I have a good knowledge of programming languages (especially Python, Bash, Perl). However, I have no problems to learn and/or improve a new programming language since programming has been my daily bread for years. A few months later, I started my PhD at the Radboud University Nijmegen (The Netherlands) on applying Deep Learning techniques to chemometric data. During these years of PhD, I have been developing mostly new neural networks based methods and applied Deep Learning to various modalities of data (mainly spectral or image data). I am currently working for a software quality company where I am using my expertise on distributes system, software engineering and data analysis.

Experience

TIOBE Software

Software Engineer Services

March 2019 - Present

Eindhoven (The Netherlands)

<https://www.tiobe.com>

I am helping our customers to get rid of all their software bugs

Radboud University

PhD Candidate

February 2015 - September 2023

Nijmegen (The Netherlands)

<https://www.ru.nl>

During these years I have been researching on applying deep learning inspired techniques to chemometric data also coming from the medical field. In particular, I have been working on spectroscopy data and datasets with different data modalities available (in particular images).

QuestIT

IT Programmer

October 2014 - January 2015

Siena, Italy

<https://www.quest-it.com/>

I worked as a web programmer at QuestIT for a few months. I had the opportunity to improve and discover new frameworks for web programming.

Radboud University

Computer Engineer

February 2014 - July 2014

Nijmegen (The Netherlands)

<https://www.ru.nl>

I applied a clustering method on patient records affected by multiple sclerosis from The Netherlands Brain Bank (NBB) source. The aim was to highlight the textual features that mostly represent each cluster and also the relations between clinical and pathological clustering (these two data are present inside each patient record in two different sections). This allowed me to speculate about which features influence the most the doctor diagnosis. This work has been the subject of my Master Degree Thesis.

Education

Radboud University Nijmegen

Artificial Intelligence

2015 - 2023

PhD

<https://www.ru.nl/>

University of Siena

Computer Science

2011 - 2014

Master degree

110/110 cum laude

<https://www.diism.unisi.it/it>

University of Siena

Computer science

2007 - 2010

Bachelor degree

103/110

<https://www.diism.unisi.it/it>

Publications

Convolutional Neural Networks for Spectroscopic Data Analysis

2023

Radboud University Nijmegen

https://scholar.google.com/citations?view_op=view_citation&hl=it&user=WENxCJIAAAAJ&citation_for_view=WENxCJIAAAAJ:W7OEmFMyl1HYC

PhD thesis

Convolutional neural networks to predict brain tumor grades and Alzheimer’s disease with MR spectroscopic imaging data

2022

Plos one

https://scholar.google.com/citations?view_op=view_citation&hl=it&user=WENxCJIAAAAJ&citation_for_view=WENxCJIAAAAJ:Y0pCki6q_DkC

Spectral-spatial classification of hyperspectral images: Three tricks and a new learning setting

2018

Remote Sensing

https://scholar.google.com/citations?view_op=view_citation&hl=it&user=WENxCJIAAAAJ&citation_for_view=WENxCJIAAAAJ:9yKSN-GCB0IC

Convolutional neural networks for vibrational spectroscopic data analysis

2017

Analytica chimica acta

https://scholar.google.com/citations?view_op=view_citation&hl=it&user=WENxCJIAAAAJ&citation_for_view=WENxCJIAAAAJ:u5HHmVD_u08C

Discovering potential clinical profiles of multiple sclerosis from clinical and pathological free text data with constrained non-negative matrix factorization

2016

Applications of Evolutionary Computation: 19th European Conference

https://scholar.google.com/citations?view_op=view_citation&hl=it&user=WENxCJIAAAAJ&citation_for_view=WENxCJIAAAAJ:u-x6o8ySG0sC

Languages

Italian

Mother tongue

●●●●●●

English

Advanced

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Dutch

Beginner

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