

Curriculum Vitae

Alberto Arletti

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Profile:

I am a PhD Student in Statistical Science at University of Padova. Combining analytical skills with a passion for psychology, I specialize in explaining multi-dimensional digital data on digital traces of human behaviour. My goal is to create an automated understanding of human psychological characteristics as scale, starting from digital data.

Education

*January 2022—
present*

Course: Statistical Sciences PhD Student

Where: University of Padova, Padova, Italy

Supervisor: Prof.ssa Maria Letizia Tanturri

Relevant courses:

Applied Multivariate Techniques (A/B): Matrix Decomposition, Clustering, PCA;
Theory and Methods of Inference (B-): Frequentist and Bayesian Inference, Modelling, Distributions, Asymptotic Statistics;

Statistical Models: Non-parametric Statistics, Hierarchical Modelling, High Dimensional Modelling, Bayesian Modelling

Research: Digital traces of behaviour and Psychological characteristics.

Experience

*November 2019—
June 2021*

Position: Data Scientist

Where: Neosperience s.p.a., Milan, Italy

At Neosperience I worked to create User Insight, a tool that aims at predicting personality from web navigation data and automatically performing personality-based personalisation. My role involved:

- I led a team of 2 and I managed the design and development of the project.
- Overall responsibility for the quality of data and of predictions towards our customers and stakeholders.
- Managing the data pipeline (AWS suite, Apache Spark), development of algorithms used to predict personality (random forest, XGBoost) and developing feature engineering (Resnet32, topic extraction).

Education

*January 2021—
September 2021*

Course: Statistical Sciences (Part time)

Where: University of Padova, Padova, Italy

Goal: Further developing my foundations in mathematics.

Courses: Calculus (27/30), Advanced Calculus (27/30)

September 2018—
November 2019

Degree: Master's Degree in Neuroscience
Where: University of Padova, Padova, Italy
Grade: Distinction, Upper Second Class honours
Relevant courses: Linear Algebra, Thought Psychology (%70).
Supervisor: Prof. Simone Cutini.
Contributions:

- Completed a two years Master Degree in 14 months.
- I improved fNIRS neuro-imaging signal quality using a SVM, which resulted in a 46% of increase in the biological signal to be available for analysis.

September 2017—
November 2018

Degree: Master's Degree in Cognitive Neuroscience
Where: University College London, London, UK
Grade: Upper Merit
Relevant courses: Statistics (75%), Communication Skills (78%), Neural Mechanisms of Intelligence (66%), Intelligence Training (64%).
Supervisor: Dr. Jeremy Skipper.
Contributions:

- I observed the neural response to a natural stimulus - a movie - using fMRI.
- I reported correlation between the amygdala and the use of colour in the movie.

September 2014—
November 2017

Degree: Bachelor's Degree in Personality Psychology
Where: University of Padova, Padova, Italy
Grade: First Cum Laude
Relevant courses: Personality Psychology (Excellent 80%), Psychological Testing (Excellent 80%), Statistics (Distinction), Neural Networks.
Research Project: Neuroimaging data extraction and signal to noise ration improvement.

Extracurricular

July 2021—
August 2021

Project: Aspire Academy - Summer School
Where: Poiana Braşov, Romania
Activities: Participating in a "one week-condensed MBA" course on leadership held by US professors (Yale, Stanford).

Technical experience

Python

Libraries: pandas, numpy, torch, opencv, spacy, matplotlib

Data Engineering

SQL, AWS Suite, Apache Spark

Versioning and env.

git, docker, conda

Languages

Italian, mother tongue; *English*, C2 level;
French, basics;

MOOC accreditations

Build a Computer: From Nand to Tetris, Jan 2021;

Algorithmic Toolbox, May 2020;

Computer Networking, Dec 2019;

