



# Giulio Carducci

## Computer Engineer

I am a passionate Computer Engineer with a strong interest for emerging technologies and scientific research, which I had the opportunity to discover during my academic studies. I face everyday problems with a positive mindset and attitude towards learning new things. In my free time I enjoy hiking and practicing photography.

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🐙 github.com/GiulioC

## WORK EXPERIENCE

### R&D Software Engineer

#### Synapta

04/2018 – Present Torino  
Synapta works in the public procurement domain by aggregating all the italian public contracts in one place.

- Implemented and integrated several NLP solutions to enrich the knowledge base with additional data
- Devised machine learning and NLP strategies for out-of-core computation on huge data volumes
- Backend development of several APIs and other website features
- Configured and monitored main servers and services based on data redundancy and high-availability principles
- Main QA analyst of the website contrattipubblici.org [🔗](#)

### Research Fellow for the Academic Project REPOSUM

#### Università degli studi di Torino

06/2018 – 06/2019 Torino  
I won a 1-year research grant to study a corpus of philosophical PhD theses using NLP and Machine Learning techniques.

- Studied and leveraged semantic features of documents for different learning and representation purposes
- Feature extraction with bag-of-words, NER and NEL approaches
- Application of supervised and unsupervised machine learning techniques to different types of data

### Internship

#### Cognitive Systems Group (CoSy)

04/2015 – 09/2015 University of Bremen  
I worked for 6 months as a researcher for a european project involving several countries and institutions.

- Camera movement estimation based on detected motion in scene
- Studied and Implemented different methods for face detection and face recognition of people in the movie domain
- Trained custom shapes and object detectors from images

## EDUCATION

### M.A. in Computer Engineering

#### Politecnico di Torino

09/2015 – 04/2018 99/110

- Thesis: "Semantic Analysis to Compute Personality Traits from Social Media Posts".

### B.A. in Computer Engineering

#### Università degli Studi dell'Aquila

09/2011 – 03/2015 102/110

- Thesis title: "Design, implementation and exploitation of a database to support an embedded face recognition system".

## SKILLS

Python



Natural Language Processing



Machine Learning



PostgreSQL



Linux and System Administration



Problem Solving



Teamwork and Communication



Creativity



## PUBLICATIONS

### TwitPersonality: Computing Personality Traits from Tweets using Word Embeddings and Supervised Learning

Giulio Carducci, Giuseppe Rizzo, Diego Monti, Enrico Palumbo, Maurizio Morisio. MDPI, 2018.

### Semantically Aware Text Categorisation for Metadata Annotation

Giulio Carducci, Marco Leontino, Daniele P. Radicioni, Guido Bonino, Enrico Pasini, Paolo Tripodi. Italian Research Conference on Digital Libraries (IRCDL), 2018.

### Modeling the Semantics of Structured Sources with Steiner Trees and Relational Graph Convolutional Networks (under review)

Giuseppe Futia, Antonio Vetrò, Giulio Carducci, Davide Allavena, Juan Carlos De Martin. Journal of Web Semantics (IEEE Xplore), 2019.

## CERTIFICATES

IELTS 7.5 (CEFR C1) (2016)

British Council

Machine Learning by Andrew Ng (2016)

Coursera

## LANGUAGES

Italian



English



## INTERESTS

Photography

Outdoor Sports

Sustainable Development