

PERSONAL INFORMATION

Daniele Foroni



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Gender Male | Date of birth 25/05/1990

Nationality Italian

POSITION Tutorato Big Data and Social Networks

WORK EXPERIENCE

December 2017 – June 2018 PhD Intern at Huawei

Huawei ERC, Munich, Germany

Visiting researcher working on dynamic scheduling resources for streaming queries in a distributed environment.

Technologies Used Flink, Kafka, Java, Scala, HDFS, Spark, Python, Bash

September 2016 – Present Xplainbox Framework for Data Analysis

Industrial project that receives a stream of data, stores it, and then performs analysis and applies ML algorithms on it.

Technologies Used Nginx, GoLang, Java, HDFS, Spark, Hadoop, Python, Bash

September 2015 – Present Teaching Assistant in Big Data and Social Networks

University of Trento, Italy

Master course about big data technologies that covers from the storage of such an amount of data (NoSQL, HDFS) to its analysis (Hadoop MapReduce, Spark, ML models).

February 2015 – February 2016 Teaching Assistant in Programming for Mathematicians

University of Trento, Italy

Bachelor course that teaches the basic knowledge for programming.

February 2015 – February 2016 Intern at Engineering SPA

Engineering Tributi SPA <http://www.tributi.eng.it/>

Development of a project about entity resolution over a dataset obtained integrating multiple sources from the public administrative domain. Given a set of rules, the proposed solution builds a lattice of operations that efficiently and effectively find entities that match without running several algorithms over the whole dataset.

July 2012 – February 2013 C# & Web Developer

Cieffedati SaS <http://www.faitmariarosaria.it/>

Development of an application that integrates the information of customers from multiple sources in a structured database, updating also the sources with the gathered knowledge.

September 2010 – January 2012 Intern at GPI SPA

CRG = Centro Ricerche GPI <http://www.gpi.it/>

Development of a middleware that supports Event-Driven and Service-Oriented architectures for managing and routing alarms and notifications in a protected structure, e.g. a hospital.

January 2008 – September 2015 Football and Futsal Referee at A.I.A. (Italian Referee Association)

Associazione Italiana Arbitri A.I.A. <http://www.aia-figc.it/>

EDUCATION AND TRAINING

2014 – Present PhD Student in Computer Science

Thesis Title: 'Profiling and measuring the quality of telecommunication data'

University of Trento, Trento - Italy

2012 – 2014 Master Degree in Computer Science

University of Trento, Trento - Italy

– **Grade:** 102/110

– **Thesis:** Entity identification with dynamic matching rules selection

Research and development of a tool that is able to perform entity identification dynamically applying rules defined by users.

– **Supervisor:** Yannis Velegrakis

2009 – 2012 Bachelor Degree in Computer Science

University of Trento, Trento - Italy

– **Grade:** 97/110

PUBLICATIONS

2018 **Moira: A Goal-Oriented Incremental Machine Learning Approach to Dynamic Resource Cost Estimation in Distributed Stream Processing Systems**

D. Foroni, C. Axenie, S. Bortoli, M. Al Hajj Hassan, R. Acker, R. Tudoran, G. Brasche and Y. Velegrakis. In *International Workshop on Real-Time Business Intelligence and Analytics (BIRTE '18)*

2017 **Putting Data Quality in Context**

D. Foroni, M. Lissandrini and Y. Velegrakis. Submitted at *IEEE BigData '18*

2017 **On Contextualizing Data Quality**

D. Foroni, M. Lissandrini and Y. Velegrakis. Ready for submission at *SIGMOD Record*

PERSONAL SKILLS

Mother tongue Italian

Other languages

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | C1 | C1 | C1 |
| German | A2 | A2 | A2 | A2 | A2 |

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

- Skills**
- team work and mediating skills: I am the responsible of a group of 30 teenagers and the leader of the educators
 - decision skills: I was a football referee, where you have little time to take decisions.
 - problem solving: from my previous occupations

Computer skills Principal languages: Java, Scala, Python (2.7 and 3), Bash, GoLang, C#.
Big data technologies: Hadoop, Spark, Flink, Kafka, Pig, Hive. I teach these technologies at the Master course *Big Data and Social Network* at the University of Trento.

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