

Curriculum vitae

PERSONAL INFORMATION Matteo Francia

Cesena (FC), Italy

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Gender Male | Date of birth 1992 | Nationality Italian

EDUCATION

Nov 3, 2019 - Feb 29, 2020

Visiting Ph.D. student

Affiliation: Data Science Research Group, ITEE, University of Queensland, Australia

Supervisor: Prof. Xiaofang Zhou Topic: "Privacy on trajectory data"

Description: research on existing privacy models for spatio-temporal data, and on sensitive

information conveyed by individual locations

Nov 1, 2017 - Now

Ph.D. student in *Computer Science and Engineering*

Affiliation: Business Intelligence Group, DISI, University of Bologna, Italy

Supervisors: Prof. Matteo Golfarelli, Prof. Stefano Rizzi

Topic: "Analytics on unconventional data"

Description: Research on big data and business intelligence, with a particular focus on (i) spatiotemporal data, and (ii) recommendation and interpretation of OLAP session in hand-free

scenarios (e.g., augmented and conversational business intelligence)

May 1, 2017 - Oct 31, 2017

Research fellow

Affiliation: Business Intelligence Group, DISI, University of Bologna, Italy

Supervisor: Prof. Matteo Golfarelli

Topic: "Modeling social behaviors from trajectory data"

Oct 2014 - Mar 2017

Master's degree in *Computer Science and Engineering*

Affiliation: DISI, University of Bologna, Italy

110L/110 - Graduated cum laude

Thesis: "A Foundational Library for Aggregate Programming"

Oct 2, 2016 - Dec 2, 2016 Visiting student

Affiliation: University Of Iowa, IA, USA

Topic: "Advancements in the aggregate programming field"

Supervisors: Dr. Jacob Beal, Prof. Mirko Viroli

Sep 16, 2015 - Jul 06, 2016

Erasmus+ student in Naturwissenschaftliche Informatik

Affiliation: Universität Bielefeld, Bielefeld, Germany

Sep 2011 - Oct 2014

Bachelor's degree in *Electron.*, *Inform. and Telecommun. Eng.*

Affiliation: DISI, University of Bologna, Italy

110L/110 - Graduated cum laude

Thesis: "Apprendimento hebbiano in robotica"

2006 - 2011

High-school diploma in *Informatica Abacus*

Affiliation: I.T.T.S. "Blaise Pascal", Cesena, Italy

100L/100 - Graduated cum laude

AWARDS

Jun 28, 2018 "Gianni Bassi" Rotary Award, Best Graduate (School of Eng.&Archit.)

May 20, 2017 "Guido Paolucci" 27th Rotary Award, Best Graduate

CERTIFICATIONS

Apr 2019 ECDL Standard, Full Standard, IT Security



EXPERIENCE

Sep 2019; May 2018 - Jul 2018 Scientific advisor "Analytics on trajectory data"

Collaboration on Trajectory Mining applications

May 2019 - Jun 2019 Lecturer "Relational databases"

Assoform, RN, Italy

IFTS "Big data: new competences for new professions"

Feb 2019 Lecturer "Big Data and Analytics"

FORMart, FC, Italy

IFTS "Industry 4.0 & IT reference technologies"

Feb-Mar 2019; Feb-Mar, 2018 Laboratory lecturer "Information Systems"

Bologna Business School, BO, Italy Master in Finance, Control, Auditing

Sep 2017 Lecturer "Database and data management"

Futura srl, BO, Italy

FSE "Tecnico specializzato in programmazione di applicazioni HMI/SCADA"

RESEARCH ACTIVITY

Conference papers

Journal papers

Research projects

Agro.Big.Data.Science (2019-2020): enabling precision farming services through the spatial integration of heterogeneous sources (e.g., satellite images, vector data) in a big data platform

Sub-reviewer

DAWAK (2020), CIKM (2018)

Advisor

Master thesis

2020: Luca Semprini (TBA), Federico Naldini (Clustering di traiettorie in ambito big data), Rrok Gjinaj (Progettazione di un sistema di Conversational BI);

2019: Sara Sintoni (Progettazione di un framework per conversational OLAP), Federico Vitali (Map-Matching su piattaforma BigData), Mattia Oriani (Clustering di traiettorie su piattaforma big data), Nicola Santolini (Dati social per la deanonimizzazione di tracce GPS);

2018: Luca Campana (Analisi di dati di traiettoria su piattaforma Big Data

Bachelor thesis

2018: Chiara Forresi (Piattaforma per analisi dati di navigazione);

2017: Nicola Narducci (Mining di pattern rilevati da dati di traiettoria)

OTHER

Exhibition "Magic Boxes" (Mar 14-15, 2014)

MAMbo - Museum Of Modern Art Bologna, Bologna, Italy

"Smart" boxes (Raspberry PIs and Android tablets) capable of self-organization to create different compositions and effects. http://www-db.disi.unibo.it/MAMbo/mambo/i6/en/Supervisor: Prof. Alessandro Ricci

Open source contributions

Business Intelligence Group (UniBO) repository https://github.com/big-unibo Protelis-Lang library for aggregate computing http://github.com/Protelis/Protelis Alchemist simulator enhancements http://github.com/AlchemistSimulator/Alchemist Contributor to ArchWiki and Wikipedia

TECHNICAL SKILLS

Big data frameworks Geographic information systems Programming languages DBMS Development techniques Hadoop, MapReduce, Spark Oracle Spatial, PostGIS, GeoSpark Java, Scala, Python, C#, Haskell, Prolog, JavaScript, C MySQL, PostGres, PostGis, Oracle, Access, MongoDB Versioning: Git; Build systems: Gradle; CI: TravisCI





LANGUAGE

English German

Mother tongue

Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	B2	B2
B1	b1	A2	A2	A2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user Common European Framework of Reference for Languages

Jul, 2015 IELTS - European level: C1