Ruggero De Vita, PhD
Senior Data Scientist

Solid analytical background, programming proficiency and presentation skills. Proven track record in successfully applying modern machine learning solutions to a variety of industrial and academic applications.

Experience

Nov 2021-Today	**Senior Data Scientist** at Ernst & Young
Giu 2019 - Nov 2021	**Data Scientist Consultant** at Capgemini Engineering:

- Design of machine learning solutions, which rely on modern data science algorithms and techniques (e.g. K-means clustering, time series analysis, random forest, logistic regression)
- Software development and engineering in BigData frameworks (Apache Hadoop & PySpark), relying on Cloud facilities (AWS), versioning tools (git) and testing practices (pytest)
- Application to different business cases and industries (i.e. Telecommunication, Automotive, Oil & Energy)

Education

2016-2019	**Doctor of Philosophy** (Astrophysics); The University of Melbourne; Testamur
2012-2015	**Master of Science** (Physics); Università degli studi di Milano; 110/110 cum laude
2008-2012	**Bachelor of Science** (Physics); Università degli studi di Milano; 100/110

Honours and Awards

2017-18	Travel Grants (tot. 5,000 AUD)
2016	ND Goldsworthy Scholarship (21,000 AUD in 3.5 years)
2015	Melbourne Research Scholarship (100,000 AUD in 3.5 years)
2015	Angelo della Riccia Travel Scholarship (5,500 EUR)

International Research Visits

Oct 2017	**HARVARD** visiting researcher (2 months), Cambridge (MA)
Mar 2016	**CAMK** visitor (1 week), Warsaw (POL)
Jan 2016	**MPIA** visitor (4 months), Heidelberg (GER).

Certifications

Oct 2020	Spark and Python for Big Data with PySpark by Udemy
Feb 2018	Neural Networks and Deep Learning on Coursera
Oct 2017	Machine Learning by Stanford University on Coursera
Sep 2015	IELTS, Score: 7.0, equivalent CEFR level: C1

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⚙ **Core skills**

PROBLEM SOLVING
Quantitative Modelling · Data Mining · Machine Learning · Statistical Analysis · Project Management

PROGRAMMING
Advanced Coding (Object Oriented) · Parallel Computing (HPC & Hadoop)

PRESENTATION
Written (Scientific Publications) · Oral (Public Talks and Teaching Experience) · Data Representation

SOFT
Detail Oriented · Driving Results · Teamwork · Critical Thinking · Resiliency · Leadership

✏ **Technical tools**

Python · Pandas · SKLearn · PySpark · Git · AWS · Django · Javascript · C++ · HTML · SQL · Docker

🀄 **Languages**

Italian (Native)
English (Proficient)

♟ **Interests**

Boardgames
Travel Video

Scientific Publications

- **de Vita R.**, Trenti M., MacLeod M., 2019, MNRAS, 485, 5752
- **de Vita R.**, Trenti M., MacLeod M., 2018, MNRAS, 475, 1574
- **de Vita R.**, Trenti M., Bianchini P., et al. 2017, MNRAS, 467, 4057
- Askar A., Bianchini P., **de Vita R.**, et al. 2017, MNRAS, 464, 3090
- **de Vita R.**, Bertin G., Zocchi A., 2016, A&A, 590, A16

Seminars and Conferences

Nov 2017   Introduction to high performance computing (ADACS); (AUS)
Jun 2017   Globular cluster systems and their host galaxies; (ITA)
Apr 2016   Contributed talk, MODEST 16; (ITA)

Teaching Experience

2017   **Laboratory coordinator**, The University of Melbourne;
Subject: "Introduction to Life Earth and Universe"

2016   **Laboratory demonstrator,** The University of Melbourne;
Subject: "From the Solar System to the Cosmos"