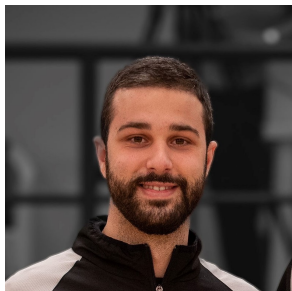


PERSONAL INFORMATION

Gaetano Settembre



 Via Pietro Micca, 78 - 70024, Gravina in Puglia (BA), Italy

 (+39) 333 40 76 393

 gaetanosettembre@gmail.com

 www.linkedin.com/in/gaetano-settembre/

 [ORCID 0000-0002-0592-8575](https://orcid.org/0000-0002-0592-8575)

Gender Male | Date of birth 11 January 1996 | Nationality Italian

About me

Post Graduated Data Science student. IT and data enthusiast with an interest in Data Analysis, Machine Learning, and full-stack development.

Passionate about new technology learning, exploration and engineering with strong interpersonal skills and auto didactic tendencies. I've developed a particular interest in research during my internship at Institute of Crystallography, in which I have written my thesis. I would love to advance my understanding multi/hyperspectral data analysis further, through PhD study and with experts in the field.

WORK ACADEMIC EXPERIENCE

Oct 2021 – Mar 2022

Curricular Internship

Institute of Crystallography c/o CNR

Via Giovanni Amendola, 122/O - 70126, Bari, Italy

- ETL (Extract, Transform, Load) process of crystallographic data from open source databases
- Exploratory analysis of crystallographic data and non-parametric statistical tests
- Training, evaluation and tuning of ML (Machine Learning) models for crystal system determination (multi-class classification task)
- High-performance Models Deployment and development of Web Platform called CrystalMELA (Crystallography MachinE LeArning) [2]

Nov 2018 – Apr 2019

Curricular Internship

SER&Practices (SER&P)

Via Edoardo Orabona, 4 - 70125, Bari, Italy

- Development of "Serious games" following the Red Team vs. Blue Team approach to improve the skills of the SOC (Security Operation Center) and CSIRT (Computer Security Incident Response Team) team
- Development of malicious attack scenarios on Linux Servers and Web Applications with the intention of extracting sensitive data using the Cyber Kill Chain framework
- Penetration Test and Vulnerability Assessment
- Data collection, data analysis (logs, alerts, etc.) and reporting using the IBM Security QRadar SIEM

EDUCATION

Oct 2019 — Mar 2022

Master's Degree in Data Science (LM-91)

University of Bari "Aldo Moro", Department of Computer Science, Italy

Final grade: Full mark with honors - 110/110 & Lode (highest possible grade in the Italian system).

Thesis: "Analisi di dati cristallografici e costruzione di modelli predittivi". Supervisors: Prof. Nicoletta Del Buono; Dr. Rosanna. Rizzi, Dr. Nicola Corriero

PA Code: 02-0000681044-0002282158

Sep 2015 — Apr 2019

Bachelor's Degree in Computer Science (L-31)

University of Bari "Aldo Moro", Department of Computer Science, Italy

Thesis: Red Team vs Blue Team: Data Exfiltration in Government". Supervisor: Prof. Danilo Caivano

PA Code: 02-0000681044-0002288080

Aug 2010 — Jul 2015

High School for Scientific Studies**High School "G. Tarantino", Applied Science/s curricula, Gravina in Puglia, Italy****CERTIFICATIONS AND COURSES**

Apr 2022	– Machine Learning with Python	IBM
	<i>Certificate ID Number: 968f2ab5ed844758b714235e98b5e287</i>	
	– Deep Learning Essentials	IBM
	<i>Certificate ID Number: 14c4279c8c934daa825c07eb61df8587</i>	
Oct 2021	– Data Analysis using Python	IBM
	<i>Certificate ID Number: caf35b5e29d44ab4a5239bfd607fd182</i>	
	– Data Visualization using Python	IBM
	<i>Certificate ID Number: 0355a89d6c694ed8bc46eb00e9112452</i>	
	– Data Science Methodologies	IBM
	<i>Certificate ID Number: acef4f90bcbe449782e429a1146a2a49</i>	
	– Data Science Foundations - Level 1 and 2 (V2)	IBM
	<i>Certificate ID Number: c429fdd4c3e470185e528830c3e1e35</i>	
May 2020	– Corso "Sicurezza e Tutela della salute dei lavoratori" (Generale)	University of Bari
	<i>Certificate Code: oJMByztiAg</i>	
Dec 2019	– Basic Course GDPR Regulation 679/2016	Dati360.it - Legal Suite
	<i>Certificate Code: 7cb536a6-6a41-49d6-ac84-e723fc7339ac</i>	
Jul 2019	– 2-day QRadar BP Technical Enablement course	IBM and SERLAB
Sep 2018	– English Assessment (Internal certification)	University of Bari
May 2013	– European Computer Driving Licence (ECDL) Full Standard Certificate	AICA
	<i>Certificate Code: IT 1969501, Skill Card: 1969501</i>	

Info: All badges of verified achievements from IBM are available at the following link:
<https://www.credly.com/users/gaetano-settembre/badges> (Credly profile).

NETWORKS AND MEMBERSHIP

Oct 2021 – Current	Mathematics In Data Analysis - (Midas) research group at the University of Bari "Aldo Moro", Italy, currently coordinated by Prof. N. Del Buono.
Jun 2019 — Current	2hands Organization volunteer. Environmental protection through cleanups, innovative projects and awareness raising.
Jan 2014 – Current	Federazione Italiana Pallacanestro - (FIP), basketball referee (Id. A056193).

HONOURS AND AWARDS

Oct 2020	Referee authorized to officiate "Serie C Gold" (men) and "Serie B" (women) basketball games.
Oct 2018	Referee authorized to officiate "Serie C Silver" basketball matches.
Sep 2016	Regional referee authorized to officiate "Serie D" basketball games.
Oct 2013	Institute representative - High School "G. Tarantino".

LANGUAGE SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B1

English Assessment (Internal certification) issued by University of Bari

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

DIGITAL SKILLS

Languages Python, Java, JavaScript, C/C++, R, MATLAB, HTML, PHP, CSS, LaTeX

Database MySQL, PostgreSQL + PostGIS, MongoDB, Neo4j

Versioning Git, SVN

Data Science scikit-learn, numpy, pandas, tensorflow, pytorch, matplotlib, seaborn, Tableau, Apache Spark, spaCy, NLTK, Data mining e machine learning: Knime, Weka, Orange

IDE Visual Studio / Visual Studio Code, PyCharm, Eclipse, NetBeans, RStudio, Jupyter, Google Colab

Applications Microsoft Office Suite, Collaborative tools (Trello, Slack, Microsoft Teams), AutoCAD 2D/3D

OSs Windows, Unix Linux

OTHER INFORMATION

Driving licence B

PUBLICATIONS

- [1] **Machine Learning approaches for predicting Crystal Systems: a brief review and a case study**
 Paper ID: 1091, to appear on Proceeding of 8th International Conference on Machine Learning, Optimization, and Data Science – LOD 2022 – September 18–22, Certosa di Pontignano (Siena), Tuscany, Ed(s) Giuseppe Nicosia, Panos Pardalos, Lecture Notes in Computer Science, 2022, Springer, Cham, ISSN: 0302-9743 (print); 1611-3349 (web).
 For this publication, the publisher's official letter of acceptance is attached.
- [2] **CrystalMELA: A new Crystallography Machine Learning platform for crystal system determination**
 Article submitted to Journal of Applied Crystallography (IUCr), ISSN: 1600-5767.
 Technical report, 1/22, Department of Mathematics, Bari, Italy, 18 July 2022.

Gravina in Puglia (BA) – 18 Jul, 2022



Gaetano Settembre

In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.