


# Silvio Piredda

## Mathematician - Data Scientist

 Cagliari, Italy

 <https://www.linkedin.com/in/silvio-piredda/>



### ABOUT ME

I am a 23-year-old student at the University of Cagliari. I recently graduated in Mathematical Sciences and I am now attending the Data Science, Business Analytics and Innovation course at the Faculty of Economics in Cagliari. I consider myself an enterprising person, with a strong spirit of initiative. I always set goals to achieve and once achieved I always look for something that will make me grow personally and professionally.

### WORK EXPERIENCES

- 15/11/2021- CURRENT

Cagliari, Italy

#### Junior Consultant as Data Scientist Student

University Project for Fluorsid S.p.A

<https://fluorsid.com/>

Fluorsid is a chemical company founded in Italy in 1969, worldwide leader in manufacturing and sales of inorganic fluorochemicals. It has a strong commitment in pursuing quality and respect for the environment. The working group with which I am embarking on this new experience, in collaboration with the CMO, is contributing to the analysis of data relating to the company's LinkedIn page.

- 27/08/2019 - 03/12/2019

New York City,  
United States

#### Internship - Mathematical Science

CUNY Graduate Center

<https://www.gc.cuny.edu/Home>

The collaboration with the CUNY Graduate Center has been fundamental to deepen my education on Differential Geometry. I had the opportunity to follow many activities offered by the Institute such as seminars and lectures with professors of the highest level. The topics covered are mainly the study of the theory of curves and surfaces in space and programming in Mathematica. Among the various methods of work and study used, the time spent studying in team with other students of the school has been fundamental for me: these opportunities for shared work have allowed me not only to deepen the topics covered, but also to learn the language and approach a cultural universe very different from my own.

• 18/10/2021- CURRENT

## Junior Consultant - Data Scientist

Milan, Italy

HUDi: Digital Humanism

<https://www.hudi.it/>

My role within the company is to find and interpret rich data sources, manage large amounts of data, merge data sources, ensure consistency of data-sets, and create visualisations to aid the understanding of data. The datasets refer to important Italian companies.

## PROJECTS

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• 20/12/2021

### Blockchain system to limit scams in online purchases

Cagliari, Italy

Industrial Liaison Office

<https://people.unica.it/liaisonoffice/>

Deposit at the patent office of the University of Cagliari of the first draft of a blockchain-based method to limit fraud during online purchases and monitor the delivery chain by avoiding disputes between parties. The proposal includes a payment and tracking system characterised by the connection between a Smart Contract and a sensor associated to the blockchain.

## EDUCATION

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• 09/2020 - CURRENT

### Master's degree in Data Science Business Analytics and Innovation

Cagliari, Italy

Department of Economics and Management  
(University of Cagliari)

<https://www.unica.it/unica/>

• 09/2020 - CURRENT

### English language course

Cagliari, Italy

Wall Street English

<https://www.wallstreet.it/>

• 09/2018 - 06/2020

### English language course

Cagliari, Italy

Anglo American Centre School

<https://www.angloamericancentre.it>

• 10/2017 - 07/2020

### Bachelor's Degree in Mathematical Sciences

Cagliari, Italy

Department of Mathematics and Computer Science  
(University of Cagliari)

<https://www.unica.it/unica/>

#### Degree course with a Path of Excellence

This important path, as well as including extra curricular exams, has also given me the opportunity to carry out many activities that have enriched me academically and humanely, like the internship at the CUNY Graduate Center in New York, the participation in the Week of Science and Innovation in Padua, the participation in numerous seminars held in my institute and the opportunity to hold lessons myself for students attending the same course of study, from the second year of university. Through these experiences I have acquired many soft skills such as the ability to relate with people of different nationalities, confidence and good public speaking skills in front of large audiences, and organisational skills that I am sure will be useful in any work situation.

**Thesis:** Minimal Surfaces: Old Constructions and Recent Advances

**Graduation grade:** 110/110 cum Laude

## CERTIFICATIONS

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- TOEIC (Test of English for International Communication) - B2
- PET (Preliminary English Test) - B1

## LANGUAGE SKILLS

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ITALIAN: Mother Tongue

ENGLISH

| Listening | Reading | Spoken Production | Spoken Interaction | Writing |
|-----------|---------|-------------------|--------------------|---------|
| B2        | B2      | B2                | B2                 | B2      |

## DIGITAL SKILLS

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|---------------------|-------|----------------|-------|
| WINDOWS, IOS, LINUX | ● ● ● | C, C++         | ● ● ● |
| PYTHON              | ● ● ● | MATHEMATICA    | ● ● ● |
| R                   | ● ● ● | OFFICE PACKAGE | ● ● ● |

## CONFERENCES AND SEMINARS

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Seminars held at the Department of Mathematical Sciences and at CUNY Graduate Center:

- **6 February 2020:** Seminar on the Cayley-Dickson Construction held at the Department of Mathematical Sciences of the University of Cagliari, addressed to students of the bachelor's degree in Mathematical Sciences.
- **26 November 2019:** Paper by Michael E. Gage "An isoperimetric inequality with applications to curve shortening" held at the CUNY Graduate Center in New York City.
- **2 August 2019:** Paper by C. Anedda e G. Porru "Problems on the Monge- Ampère equation in the plan" held at the Department of Mathematical Sciences of the University of Cagliari, addressed to students of the bachelor's degree in Mathematical Sciences.
- **25 September 2018 - 2 October 2018:** Seminars on Projective Geometry, held at the Department of Mathematical Sciences of the University of Cagliari, addressed to students of the bachelor's degree in Mathematical Sciences.

## COURSES

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Extracurricular activities attended in New York:

- **2019 Introduction to Ordinary Differential Equations:** This class aimed to study important classes of differential equations that arise in physics and differential geometry.
- **2019 Logic:** The objective of this course was to introduce syntax and semantics of (finitary) first-order logic, and to study its fundamental properties and uses in various areas of mathematics.
- **2019 Understanding algebraic topology geometrically:** As part of this important course, Prof Dennis Sullivan, dealt with different topics aimed at understanding algebraic topology via its geometric aspects.

Extracurricular activities attended in Italy:

- **2019 Summer School in Mathematical Analysis:** Targeted at PhD students, the school is open to all interested people. It is made up of two independent courses, held by proficient researchers with an international teaching experience and a special attitude to relate with students. The lectures deal mainly with partial differential equations of elliptic type, and aim to provide a deeper insight in some topics of this wide and interesting field of mathematical research in a friendly and motivating environment.
- **2019 Galileo - Science and innovation** week held in Padova in different places of historical and cultural interest such as Teatro Verdi, Caffè Pedrocchi and Palazzo Moroni.

## ORGANISATIONAL SKILLS

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During my studies I acquired good **Problem Solving skills** and a good attitude to planning and **teamwork**. During an internship, at a medium-sized company located in Northern Italy, I have acquired skills and competences such as management and **working independently, resistance to stress** and **attention to detail**. Thanks to active participation for years in sports associations I have developed good organizational skills and management for the realization of events of various kinds.

## COMMUNICATION SKILLS

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**Excellent communication and interpersonal skills** acquired through sales experience at family businesses and through active participation for years in the local sports club.

For several university exams I had the opportunity to work in a team. Not only has this allowed me to further develop my **abilities of teamwork**, but it has also made me more willing to listen to others and to question my ideas. In addition during my studies I have done several jobs of various kinds that allowed me to **get in touch with different realities, situations and people**. These experiences have given me the opportunity to develop a greater sense of **adaptability** and **flexibility**.

All these skills have been further developed during the experiences abroad and the activities carried out thanks to the Path of Excellence.

## NETWORKS AND MEMBERSHIPS

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Volunteer for **AVIS (Italian Blood Volunteers Association)**