



# Giovanni Scialla

Researcher



## Education

2018  
↑  
2013

**High School Diploma**  
*"Alessandro Volta" Institute, Sassuolo, Italy*

2021  
↑  
2018

**Bachelor's degree in Computer Engineering**  
*Department of engineering "Enzo Ferrari", Modena, Italy*

- Courses and Achievements:**
- Fundamentals of Programming
  - Calculus 1 and 2
  - Statistics and probabilistics
  - Electronic devices
  - Database management systems
  - Operating systems
  - Object-oriented programming
  - Software Engineering
  - Fundamentals of Telecommunication
  - Automatic controls
  - Machine Learning

2024  
↑  
2022

**Master's degree in Artificial Intelligence Systems**  
*University of Trento, Italy*

- Courses and Achievements:**
- Fundamentals of artificial intelligence
  - Machine Learning
  - Deep Learning
  - Image and video Processing
  - Artificial and biological neural systems
  - Computer Vision
  - Advanced Computer Vision
  - Robotics
  - Natural language processing (NLP)
  - Bio-inspired artificial intelligence
  - AI for Finance
  - Data mining

**Grade: 110/110**

**Master Thesis:** *"Neu4Mes: Structured Neural Network Framework for Modeling and Control of Autonomous Systems"*  
Awarded with the prestigious **Italian FIS2 Grant** for outstanding research contributions in autonomous systems.  
More details on my personal [GitHub](#)



## Contatti

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**Website**  
[LinkedIn profile](#)  
[GitHub](#)



## Skills

- Artificial Intelligence
- Natural Language Processing
- Deep Learning
- Computer Vision
- Machine Learning
- Python
- Pytorch
- C, C++, C#
- HTML, CSS, javascript
- PostgreSQL
- React Native
- Docker



## Languages

Italian	Fluent
English	Fluent
Japanese	Basic



## Work experience

2022



2021

### Software Developer

*Sacmi Forni and Filter Spa, Italy*

- Data analysis.
- Software application development
- Customer service
- Software skills with C# and XML language
- Testing and deployment

Now



2024

### Lead Researcher and Developer

*Department of Industrial Engineering, University of Trento, Italy*

#### FIS2 Grant - Autonomous Systems

development of nnodely, an open-source Python framework that integrates physical principles and control theory into neural network architectures.

**Website:** [nnodely](#)