GIOVANNI MENEGOZZO

Eng. and Ph.D Candidate

ML Engineer

📱 +39 ███████

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G publications

Summary ———

Ph.D on Deep Learning, Causal Discovery and Industry 4.0

Consultant for manufacturer

8 years of experience in Altair robotic lab

Broad overview of **computer vision** technologies

Speaker in multiple international conferences

4 First author publications

I am looking for teamwork, advanced programming and find the **root-cause** of '42'

Experience

Consultant

Mar 2020 - present (2 years)	███████████████

Feasibility study of in-line predictive systems in continuous **manufacturing** processes.

Business responsibilities:
- Evaluate business potential in data processing.
- Foreseen technical challenges and identify solution key players
- **Teamwork** with product technologists

Technical responsibilities:
- Support data analysis and visualization with custom software
- Building **prototypes**
- Compare ML models

Data Science

Jun 2019 - Mar 2020 (10 months)	**Internship** — Mafin Snack Pellets manufacturing (Padua, Italy)

Data exploration and **causal inference** for decision support and in-line interventions.

Jun 2018 - Sep 2018 (4 months)	**Post-Lauream Research Fellowship** — Altair Robotic Lab, (Verona, Italy)

Development of temporal **neural networks** for surgical **robots**. Pre-processing techniques for kinematic and video data.

Computer Vision

Apr 2016 - Jul 2017 (15 months)	**2x Research Scholarships** — Altair Lab (Verona, Italy)

Development of a **cross-platform** application with data collection from immersive devices. Analysis and visualization technique for hand rehabilitation's **serious game**

Jan 2016 - Sep 2017 (2 years)	**European collaboration** — INCIMOV, La Salle University (Madrid, Spain)

Collaboration with Iris Dimbwadyo Terrer for validation on post-stroke patients of an hand rehabilitation's application.

Nov 2014 - Jun 2015 (8 months)	**Internship** — Altair Robotic Lab, (Verona, Italy)

Development of **virtual reality** application with Oculus Rift and Leap Motion devices for post-stroke rehabilitation

Other

Jan 2010 - present (10 years)	**President and board member** ██████████

I founded and managed a non-profit organization for the diffusion of musical culture. We organize events, courses and facilities for members

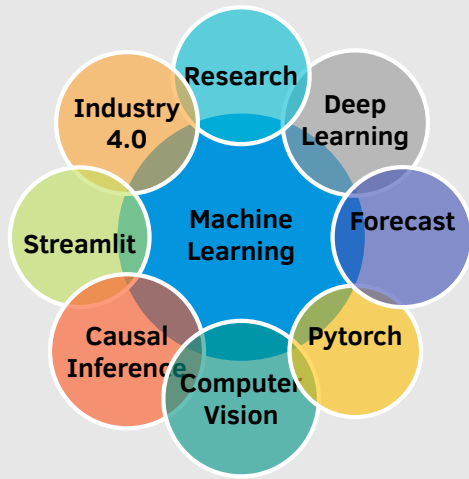|	
Feb 2006 - Mar 2012 (5 years)	**Music accademy** ████████████

Attended electric bass music courses.

Languages

Italian: Mother Tongue.
English: Understanding: C1, Speaking: C1, Writing: C1.

Skills

Conferences

Speaker International Conference on Automation Science and Engineering (CASE) 2021
•Lyon (France)

Speaker International Conference on Automation Science and Engineering (CASE) 2020
Virtual conference
•hosted from Hong-Kong (China)

Speaker International Conference in Flexible Automation and Intelligent Manufacturing FAIM 2019
•Limerick (Ireland)

Speaker Conference on New Technologies for Computer and Robot Assisted Surgery
CRAS + SPIGC 2019
•Genoa (Italy)

Summer School Big Dat 2019
•Cambridge (United Kingdom)

Accepted-Speaker International Symposium on Medical Robotics (ISMR) Not-attended 2019
•Atlanta (Georgia)

Education

2018 - 2022 (expected)	**Ph.D, Computer Science**	Department of Excellence, UniVR, Italy

Thesis Topic: Causal inference and temporal convolutional neural network in manufacturing. Supervisor: Prof. **Paolo Fiorini**

2019	**State certification exam**	University of Brescia, Italy

Admitted and enrolled in the professional registry of information engineers

2018	**MSc., Computer Science Engineering**	University of Verona, Italy

Computer vision Curriculum. Thesis on Long-short term memory **neural network** for forecasting

2015	**BSc., Informatics**	University of Verona, Italy

Thesis on immersive systems for medical rehabilitation

Skills

Data Engineer

Languages	• Software	Framework		
Python	●●●○	Pytorch	Tensorflow	Gcastle Tigramite
Matlab	●●○○	Keras	Tensorborad	Py-causal Do-why
Excel	●●○○	Pandas	Matplotlib	Scikit-learn PyEMD

Front/Back-end

Languages	• Software	Framework	
SQL	●●○○	Streamlit	Tkinter
$C_\#$,Unity3D	●●○○	Prophet	Seaborn
C_{++},C,OpenGL	●○○○	Eclipse	PostgreSQL
Assembly,Java		Ros	PlantSimulator
Wordpress	●●○○	LeapMotion	OculusRift
Access	●○○○	UnityComponent	

Utils

Languages	• Software	Framework	
Jira	●●○○	SonyVegas	Audacity
Git	●●○○	MS-Office	Unix/Bash
Latex	●●●○	Mendeley	Matplotlib
Audio/Video Editing	●●○○	Anaconda	Slack
		BitBucket	Filezilla

Legend

●○○○	Academic — School project, basic knowledge
●●○○	Personal Project — Used for a limited period of time, knowledge of some advanced functionality
●●●○	Cowboy coder — Continued use, advanced knowledge of most features
●●●●	Monkey coder — Daily use, in-deep expertise, language-specific optimization skills, no stackoverflow required

Partners

Keywords: **Ma**chine Learning, **Py**thon, **C**omputer Vision, **Ind**ustry 4.0, **Causal** Discovery