

PERSONAL INFORMATION

Giovanni Menegozzo



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Sex Male | Date of birth 08/07/1992 | Nationality Italiana

DESIRED POSITION

Machine learning summer school (MLSS) at the Max Planck Institute

WORK EXPERIENCE

June 2019 – Ongoing

Internship

Internship at [Mafin.Srl](#) Snack Pellets manufacturing, Padua (IT).

- Evaluation of temporal modeling techniques on industrial data series
- Analysis of machine learning techniques for industrial processes
- Causal Structure Learning for enchanting quality production

June 2018 - September 2018

Post Lauream Research Fellowship

Scholarship title: "Algorithms for segmentation and classification of gestures performed during robotic surgical procedures"

- Development of neural networks on kinematic and video data. Visual pre-processing techniques and dimensional reductions

January 2018 - February 2018

Internship

Internship at "[Altair Lab](#)"

- Recognition of gestures during surgical procedures through neural networks

December 2016 - July 2017

Research scholarship

Scholarship title: "Development of material for the dissemination of the ROBIOPSY project"

- Analysis and visualization methods on Vitas hand rehabilitations datasets

April 2016 – August 2016

Research scholarship

Scholarship title: "Development of materials for the dissemination of the European MUMB project"

- Development of cross-platform application system with data collection. Analysis and validation of the effectiveness of the application compared to standard technique.

January 2016 - September 2017

International collaboration

Neuroscience and Movement Science Institute (INCIMOV), La Salle University (Madrid, Spain).

- Collaboration with [Iris Dimbwadyo Terrer](#), Vice-director and International Relations Manager, for therapeutic validation on patients.

November 2014 - June 2015

InternshipInternship at "[Altair Lab](#)"

- Development of virtual reality on immersive devices for post-stroke rehabilitation

EDUCATION AND TRAINING

October 2018 - Ongoing

Ph.D in Industry 4.0

University of Verona, Department of Excellence

Computer Engineering for Industry 4.0. Supervisor: Prof. [Paolo Fiorini](#)

February 2019

State certification exam for Information Engineer qualification

University of Brescia, Department of Computer Engineering

October 2015 - March 2018

Master's degree in Computer Engineering

University of Verona, physical and natural mathematical sciences. Visual Computing Curriculum.

- Visual Computing
- Image preprocessing
- Discrete and continuous system
- Neural network

Thesis:

- Gesture recognition in surgical procedures with LSTM recurrent neural network.
- Link: <https://goo.gl/zcQzDM>

Vote: 103/110

Sept. 2011 - September 2015

Bachelor degree in Computer Science

University of Verona, physical and natural mathematical sciences

- Algorithms
- Databases
- Object-oriented programming languages
- Imperative programming languages

Thesis:

- Development of software applications with immersive devices for patients in post-stroke rehabilitation
- link **video:** <https://goo.gl/3Gpizq>

PUBLICATION

July 2019

Automatic process modeling with time delay neural network based on low-level data

- Journal paper [Procedia Manufacturing](#)
- Link [publication](#):

April 2019 **Surgical gesture recognition with time delay neural network based on kinematic data**

- Conference paper [ISMR 2019](#) - International Symposium on Medical Robotics
- Link [publication](#): DOI: [10.1109/ISMR.2019.8710178](#)

March 2019 **Surgical Gesture and Error Recognition with Time Delay Neural Network on Kinematic Data**

- Conference paper [CRAS 2019](#) - Conference on New Technologies for Computer and Robot Assisted Surgery
- Link [publication](#):

October 2016 **VITAS Gaming Suite: Virtual Therapy Against Stroke**

- Conference paper ICNR 2016 - International Conference on NeuroRehabilitation
- Link [pubblicazione](#): <https://goo.gl/oNNc5X>

PERSONAL SKILLS

Mother tongue Italian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	B2	B2	B1	B2

Other skills

- I worked closely with the R&D of a manufacturing company
- The Altair robotic laboratory allowed me to use collaborative robots on several occasions
- I created and maintain www.ingruma.org e www.sounddoors.org
- Attended the "Icimus Schio" music academy for five years
- I manage and support local voluntary associations related to the music and scouting

Computer skills

	ADVANCED	INTERMEDIATE	ACCADEMIC
Language	Matlab - Python - C#	C++ - Latex - Ros	C - Assembly - R - SQL - Java - Html5 - OpenGL
Software/Framework	Unity 3D - Keras LeapMotion - Oculus rift - Git	Sony Vegas - Wordpress Joomla - Caffè - Tensorflow	Microsoft Office - Mendeley Audacity
Panoramic	Neural network - Causality - Data Analysis	Mobile dev - Robotics	Web - Database - Audio/Video Editing