

# Veronica Varzi

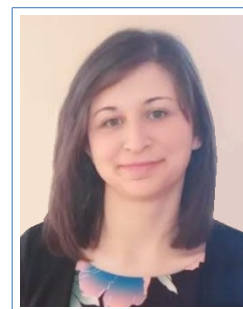
## Curriculum vitae

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Born on 9<sup>th</sup> March 1994 in Casale Monferrato (AL).

### Studies

#### Academic Studies

Oct 2020 **Ph.D. Programme in Physics (36<sup>th</sup> cycle)**, *Università degli Studi di Torino*.  
Today

Sep 2016 **Master's Degree in Physics (biomedical curriculum)**, *Università degli Studi di Torino*, 110/110 cum laude.

*Thesis: Analysis of the activity of a neuronal network detected by multielectrode sensors.*  
The thesis work concerns the acquisition of data of the electrical activity of mesencephalic neuron cultures, by conducting *in vitro* experiments using commercially available multi-electrode biosensors and innovative prototypes in artificial diamond, preliminarily tested. To speed up the data analysis, a new software has been developed in MatLab, capable of automating the analysis itself, by making it more objective.

Sep 2013 **Bachelor's Degree in Physics**, *Università degli Studi di Torino*, 110/110.

Oct 2016 *Thesis: Effect of the presence of gold nanoparticles on ROS production in radiotherapy treatments.*

The thesis aims to study the use of gold nanoparticles as radiosensitizing agents for a possible clinical use, by exploiting the production of Reactive Oxygen Species (ROS) induced by the presence of the nanoparticles themselves, under standard radiotherapy irradiation conditions in hospital setting.

#### High School Studies

Sep 2008 **Secondary School Diploma at Scientific PNL (national linguistic plan)**

Jul 2013 **High School**, *Liceo Scientifico Natale Silvio Italo Palli*, Casale Monferrato (AL), 100/100 cum laude.

### Foreign language skills

Italian Mother tongue

English Level B1

German Level B1

*PET Certificate in English B1 -2011-*

*Zertifikat Deutsch B1 -2013-*

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## Information technology skills

OS	WINDOWS, ANDROID, MAC, LINUX
Programming languages	C++
Office environments	MICROSOFT OFFICE (ECDL Certificate -2009-), L <sup>A</sup> T <sub>E</sub> X, LIBREOFFICE
Software applications	MATLAB, ROOT, MATHEMATICA, ORIGIN, LTSPICE

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## Work and formative experiences

- Jan 2015 **Tutor**, *private families*, Occimiano (AL).  
Today Skills acquired as a tutor of scientific subjects, with a commitment of 2 hours per week:
- help in the organization of the study and in overcoming difficulties in solving exercises;
  - explanation and clarification of scientific topics of varying complexity.
- May 2016 **Undergraduate Internship**, *Università degli Studi di Torino*, Torino.  
Aug 2016 Skills acquired as an intern, with a commitment of 20 hours per week:
- basic knowledge of the use of nanoparticles in the biomedical field;
  - preparation of samples in physiological solution containing gold nanoparticles;
  - irradiation of samples with 6 MV photons by medical LINAC;
  - samples analysis by means of a spectrofluorimeter.
- 18 - 22 **Scientific Summer Academy**, *Agorà Scienza*, Torino.  
June 2012 Added values acquired as a student:
- possibility of comparison with other selected students, coming from different schools;
  - participation in seminars and workshops relating to various scientific fields.
- 12 - 22 **Advanced English Course**, *Wallace College*, Edinburgh.  
July 2011 Added values acquired as a student: ability to approach students and teachers of different nationalities.

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## Voluntary activities

- Sep 2008 **Promotion and development of the territory**, *Associazione Turistica Pro Loco di Occimiano*, Occimiano (AL).  
Today Skills acquired as a volunteer: aptitude for cooperation in the preparation and management of events such as recurrence parties, musical, cultural and sporting initiatives, tourist proposals.

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## Other information

- Personal data treatment I authorize the processing of my personal data contained in the CV in compliance with the Legislative Decree 30<sup>th</sup> June 2003, n. 196, “Codice in materia di protezione dei dati personali” and the European Regulation (UE) 2016/679.