

Europass Curriculum Vitae

Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

Gender

Sabatini, Paolo

40, via T. Sabatini, 53021, Abbadia San Salvatore (IT)

60, Chemin des Collines, 01360, Sergy (FR)

134, Hannoverschestrassse, 37077, Göttingen (DE)

+393385968853

paolosbtn@gmail.com

Italian

09/06/1991

Male

Work experiences

2016 -

Principal subjects/Occupational
skills covered

PhD in Physics

Currently I'm involved in the GAUSS doctoral program at 2. Physikalisches Institut at the University of Göttingen (DE), working for the ATLAS experiment collaboration at CERN (European Organization for Nuclear Research).

The first year has been dedicated to the achievement of the authorship qualification, accomplished in November 2017. The qualification project concerned studies on the calibration for the innermost layer in the ATLAS Inner Detector by analysing collision and module production data, and by recording new data in dedicated laboratory measurement.

After the qualification as an ATLAS author, I moved to CERN to start the main topic of the PhD project regarding the measurement of the four-top quark production process in proton-proton collision at 13 TeV of centre-of-mass energy. I'm currently working on this topic, being one of the main analyser of the research group (around a dozen of active people). In the meantime I continued helping out in studies for the Inner Detector and MonteCarlo samples generation, and actively participated to the experiment data acquisition.

This very broad activity provided to me experience in coding and framework building in several languages, version control platform use, data analysis instruments e.g. Multi-Variate-Analysis techniques and fitting algorithms. Moreover, from hardware activity, I got experience in semiconductor physics and its applications such as silicon-pixel detectors. Being at CERN led me networking with several different research groups, stimulating new interests and collaborating in short-term projects. The PhD is expected to finish by the end of 2019.

Georg-August-Universität Göttingen (DE)

Name and type of organization
providing education and training

Education and training

2013 - 2016

Title of qualification awarded

MSc thesis

Principal subjects/Occupational
skills covered

MSc in Physics (Curriculum Particle Physics)

Degree in Physics from the 30/05/2016 by a vote of 110/110 cum laude.

First level triggering at NA62 rare kaon decay experiment

The MSc course covered several different scientific fields such as General Relativity, Quantum Field Theory and Particle Physics, Standard Model, Montecarlo Methods, Data Analysis and Astrophysics.

All the exams in the curriculum have been passed by June 2015. Since April 2015 I worked on the master thesis in collaboration with the NA62 Research Group at INFN (National Institute of Nuclear Physics). The thesis work (available in the [ETD system](#)) concerns the implementation of the simulation for the level-0 trigger at NA62 experiment at CERN (Centre National de la Recherche Nucléaire). The simulation helped the optimisation of the trigger conditions to increase signal efficiency in data acquisition, representing an important tool for testing the hardware system performance.

Name and type of organization
providing education and training

2010 - 2013

Title of qualification awarded
Principal subjects/Occupational
skills covered

Name and type of organization
providing education and training

2005 - 2010

Title of qualification awarded
Name and type of organization
providing education and training

Additional Schooling

2018

2017

2015

2014

2009

2008

Personal skills and competences

Mother tongue(s)

Other language(s)

*Self-assessment
European level^(*)*

English
German
French

Computer skills and
competences

Università di Pisa (IT).

BSc in Physics

Degree in Physics from the 26/09/2013 by a vote of 107/110.

The covered subjects are available at <http://www.df.unipi.it/didatticanuova/1011/descrizione-0>. Additional courses in "Analytical Mechanics" and "Partial Differential Equations" have been attended. Final dissertation on "*The EPR paradox of Quantum Mechanics*". Supervisor: Prof. G. Paffuti.

Università di Pisa (IT)

High School (scientific/technological curriculum)

High School Diploma with a vote of 100/100 cum laude.

Liceo Scientifico Tecnologico "Amedeo Avogadro", Abbadia San Salvatore (IT).

Deutsche Physikalische Gesellschaft (DPG) Frühjahrstagung, Würzburg.

Abstract of my talk available at this [link](#).

Deutsche Physikalische Gesellschaft (DPG) Frühjahrstagung, Münster.

Abstract of my talk available at this [link](#).

Experience at NA62 experiment, CERN (CH).

HASCO Summer School, University of Göttingen (DE).

Final dissertation on "*The quest of quark-gluon plasma*". Co-author: Rocío Saéz Blázquez. Supervisor: Prof. Rosario Nania.

Orientation Courses of Scuola Normale Superiore of Pisa, San Miniato (IT).

ECDL, European Computer Driving Licence.

Italian

English Achieved the Preliminary English Test Certificate (PET) with merit, released by Cambridge University, in 24/07/2009 by a vote of 85/100. Speaking in English on a daily-basis since 2016.

German Achieved the B1 level during my stay in Göttingen in 2017 by attending language courses at university.

French Learned during three years in the secondary schools and improved during my stay at CERN.

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1
B1	B1	B1	B1	B1
A2	A2	A2	A2	A2

^(*) Common European Framework of Reference (CEF) level

Use of Unix and Windows operating systems. Experienced in C/C++, python, bash, used during my research. Good experience in version-control platform, such as svn or GitHub. Some experience accumulated in HTML and Qt for private interests. Use of \LaTeX for document and slides realisation. Good experience in Office package. Broad use of ROOT software.

Additional information

2010

Member of the **National Excellence Register**.

Profiles

GitHub

<https://github.com/paolosabatini>

CERN Phonebook

[https://phonebook.cern.ch/phonebook/# personDetails?id=771462](https://phonebook.cern.ch/phonebook/#personDetails?id=771462)

Webpage

<http://psabatin.web.cern.ch/psabatin/index.html>