

## CURRICULUM VITAE



### PERSONAL INFORMATIONS

Name  
Address  
Phone number  
E-mail  
  
Nationality  
Date of birth

**CARLO BOTTARDI**

### INSTRUCTION AND FORMATION

- Dates 2016-today
- Name of the institute University of Ferrara
- Name of the program PhD in physics
  
- Dates 2013-2016
- Name of the institutes University of Ferrara and university of Paris-Sud
- Name of the program Dual Master Degree Program
- Main subjects Quantum mechanics, particle physics
- Level of the qualification Master degree (110/110)
  
- Dates 2014-2015
- Name of the institute University of Paris-Sud
- Name of the program NPAC (noyaux, particules, astroparticules, cosmologie)
- Main subjects Quantum and relativistic mechanics, particle physics
- Obtained qualification Master 2 (14.83/20)
  
- Dates 2010-2013
- Name of the institute University of Ferrara
- Main subjects From the classical physics to the basis of quantum mechanics
- Obtained qualification Bachelor degree (110 cum laude/110)
  
- Dates 2005-2010
- Name of the institute Liceo Scientifico Antonio Roiti
- Main subjects Science and mathematics
- Obtained qualification High school diploma

## PUBLICATIONS

Baldoncini M., Albéri M., **Bottardi C.**, Chiarelli E., Raptis K.G.C., Strati V. and F. Mantovani. *Investigating the potentialities of Monte Carlo simulation for assessing soil water content via proximal gamma-ray spectroscopy*. Submitted to Journal of Environmental Radioactivity (2018).

Strati V., Albéri M., Anconelli S., Baldoncini M., Bittelli M., **Bottardi C.**, Chiarelli E., Fabbri B., Guidi V., Raptis K.G.C., Solimando D., Tomei F., Villani G., Mantovani F. *Modeling soil water content in a tomato field: proximal gamma ray spectroscopy and crop models* Agriculture (2018). DOI: <https://doi.org/10.3390/agriculture8040060>. (CiteScore 2017: 1.93)

Baldoncini M., Albéri M., **Bottardi C.**, Raptis K.G.C., Minty B., Strati V. and F. Mantovani, *Exploring atmospheric radon with airborne gamma-ray spectroscopy*. Atmospheric Environment (2017). DOI: 10.1016/j.atmosenv.2017.09.048. (IF: 3.948)

Baldoncini M., Albéri M., **Bottardi C.**, Raptis K.G.C., Minty B., Strati V. and F. Mantovani. *Airborne gamma-ray spectroscopy for modeling cosmic radiation and effective dose in the lower atmosphere*. IEEE Transactions on Geoscience and Remote Sensing (2017) DOI: 10.1109/TGRS.2017.2755466. (IF: 4.942)

Albéri M., Baldoncini M., **Bottardi C.**, Chiarelli E., Fiorentini G., Raptis K.G.C., Realini E., Reguzzoni M., Rossi L., Sampietro D., Strati V., Mantovani F. *Accuracy of flight altitude measured with cheap GNSS, radar and barometer sensors: implications on airborne radiometric surveys*. Sensors (Basel) (2017) 17(8), 1889. DOI: 10.3390/s17081889. (IF: 2.964)

## TEACHING

- Date 2018
- Type of teaching Tutor for the Physics 1 course (Degree course of Geological Sciences – University of Ferrara)
- Dates 2018
- Type of teaching Tutor for the Physics 1 course (Degree course of Electronic Engineering and Computer Science – University of Ferrara)

## STAGE

- Dates March 2015 – jun 2015
- Name of the institute CEA Saclay (IRFU/SPP section)
- Subject of the stage I developed an algorithm for the strip clustering of a MicroMegas detector prototype within the New Small Wheel (ATLAS) project.

Personal skills and competences

**MOTHER TONGUE** Italian

**OTHER LANGUAGE**

**ENGLISH**  
• Reading skills Good  
• Writing skills Good  
• Verbal skills Good

**FRENCH**  
• Reading skills Basic  
• Writing skills Basic  
• Verbal skills Basic

**TECHNICAL SKILLS AND COMPETENCES** Good knowledge of the Office packet, basic knowledge of the programming languages C, Java, good knowledge of ROOT.

**DRIVING LICENCE** B licence