

# Eric GARRIDO

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Nantes, France | 18 July 1985  
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## WORK EXPERIENCE

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Current OCT 2016	Post-doctoral at <a href="#">LPC</a> , Caen <i>Use of Dosion III on hadronic irradiation platforms</i> 2 years position; instrumentation – detector – electronic – ion beam
APR 2016 FEB 2016	Exchange visitor at <a href="#">CLEMSON UNIVERSITY</a> , South Carolina <i>Modeling and simulations for a new <math>\gamma</math>-treatment device</i> 3 months position; GEANT <sub>4</sub> – nuclear medicine – 3D modeling
SEP 2015 APR 2013	Post-doctoral at <a href="#">LaTIM</a> , Brest <i>GPU implementation of Geant4 electromagnetic processes – TrueBeam source modeling for Monte-Carlo simulations</i> 2½ years position; GEANT <sub>4</sub> – nuclear medicine – mathematical modeling
FEB 2013 DEC 2011	Post-doctoral at <a href="#">IPH</a> , Strasbourg <i>Implementation of Geant4 hadronic processes on GPU for proton-therapy use</i> 15 months position; GEANT <sub>4</sub> – GPU – nuclear imagery

## EDUCATION

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2011 2008	Ph.D in nuclear physic, <a href="#">SUBATECH</a> , Nantes <i>Measurement cross sections for radioisotopes production</i> Advisor: Pr. Philippe EUDES and Pr. Ferid HADDAD Defense date: 10/11/2011   <a href="#">Link to the manuscript</a>
2006-2008	Master degree in physics, UNIVERSITY OF SCIENCES, Nantes
2003-2006	Undergraduate student in physics, UNIVERSITY OF SCIENCES, Nantes

## INTERNSHIP

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2008 (5 months)	SUBATECH, Nantes <i>Study of an <math>\alpha</math> particles degrador system for the astatine<sup>211</sup> production</i> Advisor: Pr. Ferid HADDAD
2007 (3 months)	SUBATECH, Nantes <i>Study of neutrons beam feasibility on ARRONAX</i> Advisor: Dr. Ahmed RAHMANI

## ORAL COMMUNICATIONS

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10 OCT 2013	Oral at the GEANT <sub>4</sub> IUC, Bordeaux <i>GPU implementation of Geant4 processes for use in protontherapy</i>
27 FEB 2012	Poster at the ICTR-PHE, Geneva <i>Production cross-sections measurement for medically important positron emitters</i>
08 SEP 2011	Oral at the 7 <sup>th</sup> International Conference on Isotopes, Moscow <i>Production cross-sections measurement for medically important positron emitters</i>
16 SEP 2010	ARRONAX seminar, Nantes <i>Cross-sections measurements for radioisotopes production</i>
04 DEC 2009	Oral for the "Journées rencontre jeunes chercheurs", Barbaste <i>Production of radioisotopes of medical interest</i>
05 JUN 2009	Poster for the "Journées de l'école doctorale", Angers <i>Production of radioisotopes of medical interest</i>

## PUBLICATIONS

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15 SEP 2016	<i>New excitation functions for proton induced reactions on natural titanium, nickel and copper up to 70 MeV</i> , C. Duchemin, E. Garrido <i>et al.</i> NIM 383, p. 191-212 <a href="#">  Link to the article</a>
DEC 2011	<i>High Energy PIXE at the ARRONAX Facility for Multi Elemental Analysis of Thick Samples</i> , C. Koumeir, F. Haddad <i>et al.</i> AIP Conference Proceedings 1412 <a href="#">  Link to the article</a>

## LANGUAGES

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FRENCH:	Mother tongue
ENGLISH:	Fluent (scientific)
SPANISH:	Basic knowledge

## SKILLS

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Software:	GEANT <sub>4</sub> , GATE, ROOT, RHB, Gnuplot, TALYS, ORIHET <sub>3</sub> , SRIM, GÉNIE <sub>2000</sub> , C/C++, FASTER, Blender, <del>TeX</del> $\LaTeX$ , Unix and Office environments
Specific skills:	Monte-Carlo simulations, radiation/matter interaction, data analysis, experimental set-up supervision, use of several kinds of detectors

## TEACHING

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2011:	ECOLE DES MINES DE NANTES, Nantes
2009	·Supervision of practical works of analogical electronic (24 h) ·Supervision of basic courses on GEANT <sub>4</sub> (20 h) ·Supervision of research formations, basic courses on ROOT and GEANT <sub>4</sub> (40 h)