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EDUCATIE

- 2007 *Doctorat (Doctor of Philosophy)*, fizica teoretica,
Department of Physics and Astronomy, University of Alabama, Tuscaloosa, USA;
- 2002 *Master in Stiinta (Master of Science)*, fizica teoretica,
Department of Physics and Astronomy, University of Alabama, Tuscaloosa, USA;
- 2000 *Licenta in Fizica Tehnologica/ Diploma de Inginer*,
Universitatea Babes-Bolyai, Cluj-Napoca, Romania.

EXPERIENTA PROFESIONALA

- 2016 - prezent *Cercetator Stiintific Gradul I*, Institutul de Stiinte Spatiale, Magurele, Romania;
- 2012 - 2016 *Cercetator Stiintific Gradul III*, Institutul de Stiinte Spatiale, Magurele, Romania;
- 2011 - 2012 *Cercetator Stiintific*, Institutul de Stiinte Spatiale, Magurele, Romania;
- 2008 - 2010 *Cercetator Postdoctoral*, Technische Universität Dortmund, Dortmund, Germany;
- 2000 - 2007 *Asistent Universitar*, University of Alabama, Tuscaloosa, USA.

PROIECTE DE CERCETARE

- 2011 - 2014 *Director de proiect*: "Probing physics beyond the Standard Model with micro black holes and neutrinos", proiect tinere echipe, € 210,000, PN-II-RU-TE-2011-3-0184, Ex-post evaluation grade: **A**.

FUNCTII DE CONDUCERE

- 2018 - 2019 *Presedintele Consiliului Stiintific*, Institutul de Stiinte Spatiale, Romania;
- 2015 - 2019 *Comitetul Director*, Asociatia Ad Astra;
- 2004 - 2007 *Coordonatorul Asistentilor Universitari*, University of Alabama, USA.

REFERENT/EVALUATOR

European Physical Journal C (AIS = 1.208);

Journal of High Energy Physics (AIS = 1.049);

Physics Letters B (AIS = 1.244);

Scientific Reports (AIS = 1.286).

PREMII SI DISTINCTII

Mar. 2007 *Outstanding Teaching by a Graduate Teaching Assistant*, University of Alabama, Tuscaloosa AL, USA;

Mar. 2007 *Graduate Council Fellowship*, University of Alabama, Tuscaloosa AL, USA.

EXPERIENTA DIDACTICA

2010 *Teoria Generala a Relativitatii*, seminar, Technische Universität Dortmund;

2009 - 2010 *Mecanica Cuantica Avansata*, seminar, Technische Universität Dortmund;

2008 - 2009 *Fizica Particulelor Elementare*, seminar, Technische Universität Dortmund;

2007 *Fizica Generala pentru Ingineri*, laborator si seminar, University of Alabama;

2006 *Fizica Generala*, **instructor de curs**, University of Alabama;

2000 - 2005 *Fizica Generala*, laborator si seminar, University of Alabama.

RESPONSABILITATI INSTITUTIONALE

2018 - prezent Membru in Consiliul Stiintific al Institutului National pentru Fizica Laserilor, Plasmei si Radiatiei;

2012 - 2019 Membru in Consiliul Stiintific al Institutului de Stiinte Spatiale.

MEMBRU IN COLABORARI INTERNATIONALE

2014 - 2016 Membru al colaborarii *JEM-EUSO*;

2009 - 2014 Membru (invitat) al COST Action "*Black holes in a Violent Universe*" (ACTION MP0905).

CAPITOLE DE CARTE

- "Minimum length effects in black hole physics" R. Casadio, O. Micu and P. Nicolini. arXiv:1405.1692 [hep-th], *Fundam. Theor. Phys.* 178, 293 (2015).

PREZENTARI SI LECTII INVITATE (Selectie)

- "Quantum Black Holes: from the Hoop Conjecture to possible searches for their decay signatures", University at Buffalo, Buffalo, NY, USA, 2014;
- "Horizon wave-function, the quantum hoop conjecture and black holes as BEC of gravitons", University of Pittsburgh, Pittsburgh, PA, USA, 2014;
- "Horizon wave-function, the quantum hoop conjecture and black holes as BEC of gravitons", joint seminar: City College of New York & Lehman College, New York, NY, USA, 2014;
- "The Quantum Hoop Conjecture", 1st INFN FLAG Meeting "The Quantum and Gravity", University of Bologna, Italy, *Lectie invitata*;
- "Non-thermal micro black hole decay searches in the UHECR and neutrino data", Vanderbilt U., Nashville TN, USA, 2013;
- "Possible searches for the non-thermal micro black holes back-to-back decay signature", NASA, Huntsville AL, USA, 2013;
- "Explaining LSND and MiniBooNE using altered neutrino dispersion relations", Los Alamos National Laboratory, USA, 2009;
- "Explaining LSND and MiniBooNE using altered neutrino dispersion relations", M.I.T., USA, 2009;
- "Explaining LSND and MiniBooNE using altered neutrino dispersion relations", Fermilab, USA, 2009.