

# Curriculum vitae

Name: **Alina-Mihaela Badescu**

Place and birth date: 19<sup>th</sup> of December 1982, Bucharest, Romania

Nationality: Romanian

Work address: Dept. Telecommunications, University POLITEHNICA of Bucharest,  
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**Profile on researchedid.com** <http://www.researcherid.com/rid/B-6087-2012>

**Professional Webpage** <http://campus.pub.ro/lab14/abadescu/>

## **Education**

2014-2015: Postdoc researcher, Faculty of Electronics, Telecommunications and  
Information Technology (E.T.T.I.), Bucharest

2008-2011: Ph. D. Student, E.T.T.I., Bucharest; Ph. D. thesis: Radio techniques  
of cosmic particle detection

2006-2007: M. Sc. in Advanced Techniques in Radio Astronomy and Space  
Science, Chalmers University of Technology, Gothenburg

2001-2006: M. Sc. in Radio and Optic Communications, E.T.T.I, Bucharest

## **Work experience**

10.2018-ongoing EU representative for Romania, GNSS programme

11.2008-ongoing, University POLITEHNICA of Bucharest, E.T.T.I., Bucharest (starting with 1<sup>st</sup>  
October 2016- associate professor)

10.2011-10.2014, Researcher (collaboration), “Horia Hulubei” National Institute for R&D in Physics  
and Nuclear Engineering, Cosmic Rays Dept.

12.2008-11.2011, Researcher, Communications and signal processing research center, University  
POLITEHNICA of Bucharest, Bucharest

09.2005-06.2006, High school no.10 for children with disabilities, Bucharest, volunteer

## **Academic activities**

- Lecturer: “Antennas & propagation”, “Satellite Communications”, “Introduction in Radio Astronomy”; Assistant professor in: “Microwaves”, “Transmission media”, “Satellite Communications”, “Data transmissions on radio channels”, “Signal, Circuits and Systems”, “Communications Systems” etc.
- Member in the doctoral committees for: Liliana Anchidin, Madalina Algiu, Adrian Andone, Andreea Constantin, Ionut Serbanescu, Valentin Ilie, Adela Heiman
- Supervisor for more than 25 bachelor & master students’ thesis
- Coordinator of student research groups; coordinator of more than 10 papers presented in the “Student communication sessions”
- Awarded research scholarships for students (MSc and BSc) from personal research grants
- organizer of first Romanian School on “Antennas and propagation” (21-22 August 2018, Constanta)

## **Prizes & fellowships**

- Prize “Gheorghe Cartianu” of the “Romanian Academy of Science”, 2017
- First prize “Researchers in science and Engineering”-organized by Cluj Napoca City Hall, 2016 edition
- The German Acad. Exchange Service (DAAD), Grant for researchers, (2013)
- Best paper award; “*International Conference on Electrical, Electronics and Instrumentation Engineering (ICEEI – Aug’2015)*” held during 20-22, Aug’ 2015 at Colombo, Sri Lanka
- “Best young scientist” award, 21<sup>st</sup> International conference Radioelektronika, Brno, Czech Republic (20<sup>th</sup> April 2011)
- Fellowship, ‘3<sup>rd</sup> International Summer school in Astro Particles’, Nijmegen (2009)
- Scholarship (Guest Scholarship Programme) from the Swedish Institute (2006-2008)
- UEFISCDI prizes for published articles (2013-2018) Human resources programme

## **Research projects**

### **International**

- **project coordinator:** “Radiowave propagation in heterogeneous media: implications on the electronics of Cosmic Neutrino Detectors” - ERC 2016 Starting Grants

- **project coordinator:** “A quintessential Universe” –research grant no 42194, financer: John Templeton Foundation (USA) (2008-2015)

### National

- **project partner coordinator:** “Development of security applications based on the complex experimental technologies utilized in the study of cosmic radiation”, contract no. 19 PCCDI/2018, UEFISCDI
- **project coordinator:** “Radio frequency Instrumentation for Astroparticles’ detection”, contract no. 108/2018, UEFISCDI
- **coordinator** of Constantin POPA - holder of UEFISCDI “Scholarship for young researcher” (2013 competition)

### Research member in:

-*AugerNext* –member in the research team (contract no. 1 ASPERA2 ERA-NET- FP7 project) (2012-2015)

-Detection systems for Cosmic Radiation using new technologies - PN-II PARTENERIAT P-82-104 / 2008 (2008-2011)

-Hybrid wireless systems with unique accessing PN-II PARTENERIAT P -12-126/2008 (2008-2011)

-Contributions to development of processing and coding algorithms for video signals in multiuser wireless systems PNCDI II –Idei, CNCSIS 1695/2009 (2009-2011)

-Real time analysis system for risk factors for medium and public health - PN-II PARTENERIAT P 11-054 /2007 (2007-2010)

### Member of international collaborations and professional associations

- IEEE- Antenna and Propagation Society –Vice-president (Romania Section)- starting 2017
- Young Academy of Europe (starting 2018)
- Pierre Auger Observatory (UPB representative starting 2017)
- EuroScience; ASPERA (member)
- Graduate Women in Science (member, country representative: 2014-2016)
- Space Generation Advisory Council (member, country representative 2014-2017)

**Lectures**

**Chair person-** IEEE 4th Asia-Pacific Conference on Antennas and Propagation, June 30 – July 3, 2015, Bali, Indonesia; Session "Antenna Arrays and Systems"

**Chair person-** IEEE 10th International Conference on Wireless Communications, Networking and Mobile Computing, Beijing, 27-28 Oct 2014; session "Wireless networks section"

**Scientific lecture** "Detection of cosmic radiation using new technologies", Seikei University (Tokyo, Japan), 24.11.2010

**Scientific lecture** "Studies on lateral distribution of radio signal", Karlsruhe Institute of Technology (Karlsruhe, Germania), 30.11.2010

**Scientific lecture** "Cosmic particles radio detection" (Lebedev Physics Institute-Russian Academy; National Research Nuclear University MEPhI (Moscow Engineering Physics Institute); 16-17 October 2017

Lecture "Radio detection of cosmic particles", Carpathian summer school of Physics, Sinaia, 07.07.2018

Lecture "Antennas for Space Applications", Summer school on Antennas and propagation, Constanta, 22.08.2018

**Public outreach and public appearance**

- opening talk in "Investing researchers shaping Europe's future", European Parliament, Brussels, 07.02.2019, <https://erc.europa.eu/event/stoa-erc-event-investing-researchers-shaping-europes-future>
- "Stories" interview for European Research Council, <https://erc.europa.eu/projects-figures/stories/neutrinos-salt-mine-information>
- invited guest at National Radio Channel for scientific shows
- organizer of Antenna and Propagation-Society Chapter event for networking between academia & industry (60 participants), 23.11.2017, CAMPUS Research Center, Bucharest <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8331316>
- organizer of first Romanian School on "Antennas and propagation" (21-22 August 2018, Constanta), <https://events.vtools.ieee.org/m/172534?fbclid=IwAR22f14u55pNyq2FNASiMTAeIsQfXHUpABmVDWE2mF5wuG0konN6f4xVbFo>
- founder "Space Science and applications" forum, <http://campus.pub.ro/ssa/>
- dissemination and evaluator of projects in the contest "Odysseus II" –April 2016, 2017 Czech Republic

- partner in organization of the contest “*European Satellite Navigation Competition*”, (2016, 2017)  
(national phase) **ACE SCIENCE AND APPLICATIONS**

### **Certificates**

Certificate of internal auditor for management in safety and quality control (2006)

Certificate for structural management (2008)

<b>No of articles ISI Web of Science</b> (according to Thomson Reuters):	<b>79</b>
<b>No of citations</b> (according to Thomson Reuters):	<b>800</b>
<b>h-index</b> (according to Thomson Reuters):	<b>16</b>