

Personal information	
First name / Surname	Alina-Mihaela Badescu
Address	Bd Iuliu Maniu, nr 1-3, sect 6, Bucharest
Telephone E-mail	- Mobil: +40721870058 alinabadescu@radio.pub.ro; badescuam@yahoo.com;
Nationality	Romanian
Date of birth	19/12/1982
Professional experience:	
Date	01.10.2008-ongoing
Employer	University POLITEHNICA of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
Sector	Educational/Research
Position	
Teaching Experience	Lecturer in courses "Antennas & propagation"; "Satellite Communication"; ""Introduction in Radio Astronomy"; Seminar/ laboratory activities in disciplines: Microwave, Transmission Media, Communication Systems, Analog-Digital Circuits, Data transmission on radio channels etc.
BSc/Msc thesis supervision	Simulation of elementry antennas (2016); Radar systems for assisted driving (2015), Satellite signals propagation through ionosphere (2015); Dipole antennas for radio astronomic observations; Radio channel modelling in non-conventional media (2014); Antenna Array networks (2014) etc.
	Liliana Anchidin, Madalina Algiu, Adrian Andone- PhD coordinator prof. dr. eng. R. Tamaş (starting 2015); Ilie-Valentin Mihai, Ionut Serbanescu, Andreea Constantin - PhD coordinator prof. dr. eng. R. Tamaş (starting 2017)
Other educational/communication activities	
Studies:	
Date	01.05.2014-30.11.2015
Title of qualification awarded	Post doctoral degree
Subject	Radio techniques for astroparticle detection
Institution	University POLITEHNICA of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
Date	01.11.2008-01.11.2011
Title of qualification awarded	Ph.D. degree
Subject	Radio techniques for astroparticle detection
Institution	University POLITEHNICA of Bucharest, Faculty of Electronics, Telecommunications and Information Technology
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Date	01.10.2006-01.01.2008
Title of qualification awarded	Master of Science degree
Subject	Advanced Techniques for Radio Astronomy and space science
Institution	Chalmers University of Technology, Gothenburg, Sweden
Date	01.10.2001-01.07.2006
Title of qualification awarded	Master of Science degree
Subject	Radio and Optics communications
Institution	University POLITEHNICA of Bucharest, Faculty of Electronics, Telecommunications and Information
	Technology
Competences	

Native language Romanian Other languages English, Spanish Lev

900	 nen, epanen					
evel	Understanding		Speaking		Writing	
	Listening	Reading	Conversation	Oral speach	Wr	ting Competences
lish	C2	C2	C2	C2		C2

C2

C2

C2

C2

Englis Spanish

Programming Languages

Engineering Software:

Ansys, NEC, Satlab, Matlab etc.

Fortran, Python, C

C2

Scholarships:

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Date	11.08.2013-11.09.2013
Scholarship	Research for academics A/13/03095
Institution	DAAD-Deutscher Akademischer Austauschdienst (Germany)
Date	09. 2006- 12. 2008
Scholarship	Guest Scholarship Programme
Institution	Svenska Institutet (Sweden)
Awards: Date Award Institution	December 2017 "Gheorghe Cartianu" Romanian Academy
Date	July 2016
Award	1 st prize "Researchers in science and Engineering"- 2016 edition
Institution	Cluj Napoca City Hall
Date	20-22, Aug 2015
Award	Best paper award; "International Conference on Electrical, Electronics and Instrumentation Engineering (ICEEI – Aug. 2015)"
Institution	ICEEI
Date	2013; 2014, 2015, 2016, 2017
Award	Articles in Q1/Q2 zone; Human resources programme
Institution	UEFISCDI
Date	20 April 2011
Award	IEEE "Best young scientist"
Institution	21st International conference Radioelektronika, Brno
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Research Projects (selective list)			
Period; financer	2016-2018; European Research Council –Starting Grant (PE7 panel)		
Title	Radio wave propagation in heterogeneous media: implications on the electronics of Cosmic Neutrino Detectors		
Role in the project	Project manager		
Institutions	UPB		
Short description (main research points)	-description of antenna behaviour in non-conventional media; -radio propagation in heterogeneous media		
Period; financer	08.2013-02.2016; John Templeton Foundation		
Title	A quintessential Universe; nr. 42194		
Role in the project	Project manager		
Institutions	UPB		
Short description (main research points)	-simulation of the role of the radio detection chain on the radio signal produced by cosmic rays -implications on the construction of a "Pierre Auger" observatory		
Period/financer	2012-2015/ UEFISCDI		
Title	AugerNext ; nr. 1 ASPERA2 ERA-NET- FP7		
Role in the project	Affiliated Researcher		
Institutions	IFIN-HH		
Period/financer	2008-2011/ UEFISCDI		
Title	Detection systems for Cosmic Radiation using new technologies - PN-II PARTENERIAT P-82- 104S/2008		
Role in the project	Researcher		
Institutions	IFIN-HH; UPB;UB		
Period/financer	2008-2011/ UEFISCDI		
Title	Hybrid wireless systems with unique accessing PN-II PARTENERIAT P-12-126/2008		
Role in the project	Researcher		
Institutions	IFIN-HH; UPB;UP; ROSA		
Experimental research			
	Development of a remote calibration method for the 124 antenna array of "Auger Engineering Radio Array"; Karlsruhe Institute of Technology (2013)		
	Construction of radio detection network "Auger Engineering Radio Array II" (Malargue, Argentina, 2012)- assembly, testing, and installation of 100 radio stations (each consisting of: antenna for comms, antenna for physics +RF chain, photovoltaics etc)		
	Dielectric permittivity measurements of salt samples at Tokyo Metropolitan University, Japan (2010)		
Others:			
	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"		

	Invited professor lecture/seminar: "Detection of cosmic radiation using new technologies", Seikei University (Tokyo, Japan), 24.11.2010; "Studies on lateral distribution of radio signal", Karlsruhe Institute of Technology (Karlsruhe, Germany), 30.11.2010
	Reviewer at Modern Internet of Things (MIOT), American V-King Scientific Publishing Company (starting 2013); Member in the Technical program committee for International Conference on Localization and GNSS (2016, 2017); Reviewer at 2017 IEEE - 2017 IEEE Asia Pacific Microwave Conference (APMC);
Member of international	
organizations & collaborations:	
	IEEE Antenna and propagation Society (vicepresident- Romania section)
	Pierre Auger Observatory (UPB representative); ASPERA; EuroScience
	GWIS (Graduate Women in Science)-country representative (staring 2014)
	Space Generation Advisory Councilcountry representative (2014-2016)
Published Work (Selective List)	 <u>A.M. Badescu</u>, 2016, Antenna engineering, MatrixRom, Bucharest, ISBN:978-606-25-0307-9 <u>A.M. Badescu</u>, 2013, Radio Detection of Cosmic Neutrinos in Salt Mines, LAP Lambert Publishing GmbH & Co. KG, Saarbrücken, ISBN 978-3-659-35097-9; <u>A.M. Badescu</u>, 2015, Introducere in Radioastronomie (ed II), MatrixRom, Bucharest, ISBN 978-606-25-0177-8 <u>A.M. Badescu</u>, 2016, Simulation of event reconstruction of cosmic particles with a radio network, IEEE Systems Journal, online available [ISI, IF 3.88] <u>A.M. Badescu</u>, A.S. Simion, 2016, Array of antennas for cosmic radio observations, Romanian Reports in Physics, vol 68, no 2., ISSN: 1221-145 [ISI, IF 1.46] <u>A.M. Badescu</u>, Dragos Matei, 2015, A baseline design for a radio interferometer, Proceedings of IEEE APWC & IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communication, 07-11 September, Torino, Italy; ISBN 978-1-4799-7808-3; pag. 105-108; INSPEC Accession Number: 15525058; DOI:10.1109/APWC.2015.7300145 [IEEE Xplore] <u>A.M. Badescu</u>, 0. Fratu, S. Halunga, I. Marcu, 2009, Consideration on Wave Propagation in Underground Dielectrics, Proceedings of Loughborough Antennas & Propagation Conference, Loughborough, UK; ISBN: 978-1-4244-2720-8; pag. 377 - 380; INSPEC Accession Number: 11008727; DOI: 10.1109/LAPC.2009.5352370 [IEEE Xplore] <u>A.M. Badescu</u>, C.E. Stefan, A. Saftoiu, I. Brancus, B. Mitrica, 2014, Performances of the radio
	chain in a high energy particle detector, Proceedings of 10th International Conference on Wireless Communications, Networking and Mobile Computing, Beijing, 27-28 Oct, ISBN: 978-1-84919-845-5, pag 316-321, INSPEC Accession Number: 14854201; DOI:10.1049/ic.2014.0120 [IEEE Xplore]
Index Hirsch (according to Thomson Reuters)	19
No of articles ISI Web of Science (according to Thomson Reuters):	80
No of citations (according to Thomson Reuters):	1200

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