



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **OCTAVIAN MIHAI BĂDESCU**
Address(es) 032062, Str. Fizicienilor 5, bl. D3A, sc. A., et.9, ap.39, sector 3, Bucharest, Romania
Telephone(s) 004 0213460841 Mobile: 004 0723201221
E-mail tavi.badescu@gmail.com; octavian@aira.astro.ro

Nationality Romanian

Date of birth February 03, 1970

Gender Male

Work experience

Dates	October 01, 2004 onwards
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching Geodetic Astronomy and Space-Time Reference Systems courses, seminars and laboratories classes, licence thesis adviser, training activities and research activities in the field of geodesy (astronomical geodesy, physical geodesy, satellite geodesy, spatial geodesy, electronic distance measurement)
Name and address of employer	Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy, Geodesy and Photogrammetry Department, 020396, Bd. Lacul Tei 122 – 124, sector 2
Type of business or sector	Academic education & research
Dates	October 01, 1997 – October 01, 2004
Occupation or position held	Assistant lecturer
Main activities and responsibilities	Seminars and laboratories classes, licence thesis adviser, training activities, research activities in the field of geodesy and geodetic metrology
Name and address of employer	Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy, Geodesy and Photogrammetry Department, 020396, Bd. Lacul Tei 122 – 124, sector 2
Type of business or sector	Academic education & research
Dates	February 26, 1996 – October 01, 1997
Occupation or position held	Preparatory lecturer
Main activities and responsibilities	Seminars and laboratories classes, training activities, research activities.
Name and address of employer	Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy, Geodesy and Photogrammetry Department, 020396, Bd. Lacul Tei 122 – 124, sector 2
Type of business or sector	Academic education & research
Dates	January 01, 1995 – February 26, 1996
Occupation or position held	Geodesist engineer

Main activities and responsibilities	Geodetic measurement, geodetic networks design and execution, data processing and analyses, cadastres and land information systems realization, various scales maps and plans elaboration
Name and address of employer	A.CAD.A Services s.r.l.
Type of business or sector	Private sector
Dates	November 01, 1994 – January 01, 1995
Occupation or position held	Geodesist engineer
Main activities and responsibilities	Geodetic measurement, geodetic networks design and execution, data processing and analyses, cadastres and land information systems realization, various scales maps and plans elaboration
Name and address of employer	Altius s.r.l.
Type of business or sector	Private sector
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Dates	February 01, 2007 onwards
Occupation or position held	Associate Researcher (II degree)
Main activities and responsibilities	Astronomical and astro-geodetical measurements, data processing, maintenance and updating astronomical devices, research activities in the field of astronomy, issue of Romanian Astronomical Yearbook
Name and address of employer	Bucharest Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Str. Cuțitul de Argint 5, sector 4
Type of business or sector	Research & development
Dates	February 01, 2005 – February 01, 2007
Occupation or position held	Associate Researcher (III degree)
Main activities and responsibilities	Astronomical and astro-geodetical measurements, data processing, maintenance and updating astronomical devices, research activities in the field of astronomy, issue of Romanian Astronomical Yearbook
Name and address of employer	Bucharest Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Str. Cuțitul de Argint 5, sector 4
Type of business or sector	Research & development
Dates	February 01, 2003 – February 01, 2005
Occupation or position held	Associate Researcher
Main activities and responsibilities	Astronomical and astro-geodetical measurements, maintenance and updating astronomical devices, research activities in the field of astronomy and astrometry, issue of Romanian Astronomical Yearbook
Name and address of employer	Bucharest Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Str. Cuțitul de Argint 5, sector 4
Type of business or sector	Research & development
Education and training	
Dates	March 15-22, 2008
Principal subjects/occupational skills covered	Relativity in Astronomy
Name and type of organisation providing education and training	Centre National de la Recherche Scientifique (CNRS), France, Ecole Thematique du CNRS a Bareges: Relativité en Astronomie: Bases et récents Développements
Dates	1997 – 2002
Title of qualification awarded	Doctor

Principal subjects/occupational skills covered	Doctoral studies in Civil Engineering field, Geodesy specialisation, Thesis Title: "Contributions regarding accuracy and efficiency's increase of geodetic-astronomical method for determination of the vertical's deviation".
Name and type of organisation providing education and training	Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy
Dates	1998
Title of qualification awarded	Graduation Certificate
Principal subjects/occupational skills covered	Pedagogical studies
Name and type of organisation providing education and training	Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy, Department for Educational Training
Dates	1994 – 1995
Title of qualification awarded	Master
Principal subjects/occupational skills covered	Geodesy
Name and type of organisation providing education and training	Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy
Dates	1989 – 1994
Title of qualification awarded	Engineering Licence
Principal subjects/occupational skills covered	Geodesy
Name and type of organisation providing education and training	Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy
Dates	1984 – 1988
Title of qualification awarded	Baccalaureate Diploma
Principal subjects/occupational skills covered	Mathematics and physics
Name and type of organisation providing education and training	Bucharest, "Matei Basarab" College, mathematics-physics profile

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Basic user	B1	Basic user	B1	Basic user	B1	Basic user	B1	Basic user

Social skills and competences

Team work: I have worked in various research teams at Astronomical Institute of the Romanian Academy (AIRA) – Bucharest Observatory and Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy

Computer skills and competences	Microsoft Office Suite, Open Office Suite, AutoCAD, Corel, Tex/Latex editing, computer maintenance and debugging, networks computers, Windows and Linux (Debian, Ubuntu) OS basic knowledge, some experience with HTML.
Driving licence	B category
Additional information	<ul style="list-style-type: none"> • AFFILIATION Member of International Astronomical Union (Division I Fundamental Astronomy, Division I Commission 8 Astrometry, Division XII Commission 46 Astronomy Education & Development, Division XII Union-Wide Activities) Member of Romanian National Committee of Astronomy, contact person president dr. Popescu P., Astronomical Institute of the Romanian Academy (AIRA) – Bucharest Observatory, 040557, Str. Cuțitul de Argint 5, sector 4, Bucharest, Romania Member of professional association Astronomia21, contact person president dr. Stavinschi M., Astronomical Institute of the Romanian Academy (AIRA) – Bucharest Observatory, 040557, Str. Cuțitul de Argint 5, sector 4, Bucharest, Romania Member of Romanian Society of Fotogrammetry and Remote Sensing, contact person dr. Noaje I., Bucharest Technical University of Civil Engineering (BTUCE), Faculty of Geodesy, Geodesy and Photogrammetry Department, 020396, Bd. Lacul Tei 122 – 124, sector 2, Bucharest, Romania Member of editorial college of Romanian Astronomical Yearbook, issued by Romanian Academy Publishing House • PUBLICATIONS (since 1996) One book (academically hand-book) – single author 24 book chapters – 2 single author and 22 co-author A total of 74 scientific papers from which: 12 published in Romanian accredited journals, 4 in BTUCE Scientifically Bulletin, 9 indexed in International Databases (ISI Web of Knowledge and/or Scopus), 33 in conferences proceedings (24 in Romania and 9 abroad), 4 published abstracts (all abroad), 10 scientific communications and 2 contributions at international astronomical databases/catalogues. Also, from 74 scientific papers, 34 are indexed at SAO/NASA Astrophysics Data System (ADS) / Digital Library portal for researchers in Astronomy and Physics, operated by the Smithsonian Astrophysical Observatory (SAO) under a NASA grant • RESEARCHERID http://www.researcherid.com/rid/B-3210-2011 • PARTICIPATION IN SCIENTIFIC RESEARCH PROJECTS AND PROGRAMMES Dispozitiv optic universal pentru controlul metrologic al instrumentelor geodezice de precizie, BTUCE, 1997-1999, participant Cercetări teoretice și experimentale privind calibrarea sistemelor electronice pentru măsurători geodezice, BTUCE, 1999-2000, participant CEEX-MENER/INDEGEN – Integrated research on the intra-continental intermediate-depth earthquakes genesis within Vrancea zone, BTUCE, 2008, participant 2-CEEX-06-11-5 / Evaluation models of crustal deformations by satellite radar interferometry, ASTER and GPS data for seismic hazard prediction in Vrancea – Modevra area, BTUCE, 2006-2008, participant Program: Aerospace / Project: Application of optoelectronic techniques in image acquisition processing, AIRA, 2003-2004, participant Program: Aerospațial / Proiect: Modelarea numerică a dinamicii asteroizilor, AIRA, 2004-2006, participant Program: Aerospațial / Proiect: Metode astroseismologice cu aplicatii la misiunile spațiale de profil, AIRA, 2004-2005, participant

UNESCO Project: Monitorizarea tranzitelor planetelor Mercur si Venus peste discul solar, AIRA, 2003-2004, participant

Program: Aerospace / Project: System of monitoring potentially hazardous objects for Earth, AIRA, 2004-2006, participant

Program: Aerospațial / Centru de excelență (CEEX) Institutul Astronomic al Academiei Române, AIRA, 2002-2005, participant

Program: CEEX / Project: National technological platform of spatial dynamics, AIRA, 2005-2008, participant

Program: CEEX/ Proiect: Modul autonom pentru observații astronomice in mediul polar – PROTEL, AIRA, 2005-2008, participant

Program: PECS (Plan for European Cooperating States) / Project: GAIA (Global Astrometric Interferometer for Astrophysics) – Improving relative positions of reference stars around ICRF radio-sources, based on agreements with Bulgarian National Observatory and Centre National de la Recherche Scientifique (CNRS, France), AIRA, 2004-2009, participant

Program PNCD / Proiect: Studiul proprietăților fizice ale corpurilor din sistemul solar, AIRA, 2011-2014, participant

- MOST REPRESENTATIVE PUBLICATIONS (10)

POPESCU, P., PARASCHIV, P., POPESCU, R., DUMITRESCU, A., BOCSA, G., **BĂDESCU, O.**, NEDELCU, A., BOT, A., COSMA, V., NEGOITA, T., COTTA, M., [Romanian remote control telescope in low - Racovita antarctic base](#) (2007) *AIP Conference Proceedings*, 895, pp. 195-198. Cited 1 time. (ISSN: 0094243X, ISBN: 0735404003; 9780735404007, DOI: 10.1063/1.2720422, Language of Original Document: English, Document Type: Conference Paper, Source: Scopus)

NEDELCU, D.A., SOUCHAY, J., BIRLAN, M., POPESCU, P.P., PARASCHIV, P.V., **BĂDESCU, O.**, [Asteroid astrometry as a link between ICRF and the Dynamical Reference Frames](#) (2007) *Proceedings of the International Astronomical Union*, 3 (S248), pp. 328-329. (ISSN: 17439213 DOI: 10.1017/S1743921308019480, Language of Original Document: English, Document Type: Conference Paper, Source: Scopus)

POPESCU, P.P., PARASCHIV, P.V., NEDELCU, D.A., **BĂDESCU, O.** [Antarctic project for astrometric observations](#), (2007) *Proceedings of the International Astronomical Union*, 3 (S248), pp. 112-113. (ISSN: 17439213, DOI: 10.1017/S1743921308018784, Language of Original Document: English, Document Type: Conference Paper, Source: Scopus)

ASSAFIN, M., NEDELCU, D.A., **BĂDESCU, O.**, POPESCU, P., ANDREI, A.H., CAMARGO, J.I.B., DA SILVA NETO, D.N., MARTINS, R.V., [Optical astrometric positions of 59 northern ICRF radio sources](#) (2007) *Astronomy and Astrophysics*, 476 (2), pp. 989-993, Cited 4 times. (ISSN: 00046361, CODEN: AAEJA, DOI: 10.1051/0004-6361:20078441, Language of Original Document: English, Document Type: Article, Source: Scopus)

PARASCHIV, P., **BĂDESCU, O.**, NEDELCU, D.A., POPESCU, P., ILIEV, L. [Narrow field astrometry with different quality CCD cameras](#), (2008) *AIP Conference Proceedings*, 1043, pp. 179-182. (ISSN: 0094243X, ISBN: 9780735405714, DOI: 10.1063/1.2993634, Language of Original Document: English, Document Type: Conference Paper, Source: Scopus)

BĂDESCU, O., PLOPEANU, M., NEDELCU, D.A., POPESCU, P., PARASCHIV, P. [Geodetic astronomy and modern astrometry developments](#), (2008) *AIP Conference Proceedings*, 1043, pp. 214-215. (ISSN: 0094243X, ISBN: 9780735405714, DOI: 10.1063/1.2993646 Language of Original Document: English, Document Type: Conference Paper, Source: Scopus)

BĂDESCU, O. [Astrometry knowledge in geodetic education](#), (2008) *AIP Conference Proceedings*, 1043, pp. 85-86. (ISSN: 0094243X, ISBN: 9780735405714, DOI: 10.1063/1.2993710, Language of Original Document: English, Document Type: Conference Paper, Source: Scopus)

POPESCU, P., ASSAFIN, M., **BĂDESCU, O.**, NEDELICU, D.A., PARASCHIV, P., ILIEV, L., ANTOV, A. [A pilot astrometric survey of 59 northern ICRF radio-sources](#), (2008) *AIP Conference Proceedings*, 1043, pp. 175-178. (ISSN: 0094243X, ISBN: 9780735405714, DOI: 10.1063/1.2993633, Language of Original Document: English, Document Type: Conference Paper, Source: Scopus)

NEDELICU, D.A., BIRLAN, M., SOUCHAY, J., ASSAFIN, M., ANDREI, A.H., **BĂDESCU, O.**, POPESCU, P., PARASCHIV, P. [Apparent close approaches between near-Earth asteroids and quasars precise astrometry and frame linking](#), (2010) *Astronomy and Astrophysics*, 509 (1). (ISSN: 00046361, CODEN: AAEJA, DOI: 10.1051/0004-6361/200913172, Language of Original Document: English, Document Type: Article, Source: Scopus)

BĂDESCU, O., POPESCU, P., POPESCU, R., [The Vertical Deviation Determination by an Astronomical Geodetic Method, \(I\): Present context](#) (2003), *Romanian Astronomical Journal*, Vol. 13 (2), pp. 187-192; [\(II\): Stars identification and processing of azimuthal observations](#), (2005), *Romanian Astronomical Journal*, Vol. 15 (1), pp. 75-82 (ISSN: 1220-5160, Language of Original Document: English, Document Type: Article, Source: SAO/NASA Astrophysics Data System (ADS))