

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name BADEA Alexandru
 Address 9, Timisoara Blv., 061362, Bucharest, Romania
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 E-mail alexandru.badea@rosa.ro
 Nationality Romanian
 Date of birth 14/06/1956
 Marital status Married

WORK EXPERIENCE

Dates 2013 – present / 2008-2013 /2007-2008
 Occupation or position held Professor / Associate Professor /2007-2008/ Lecturer
 Main activities and responsibilities Digital cartography and Remote Sensing disciplines
 Name and address of employer University of Agronomic Science and Veterinary Medicine Bucharest - Faculty of Land Reclamation and Environment Engineering (USAMV - FIFIM), 59 Marasti bld., 011464, Bucharest

Dates 2000 - present
 Occupation or position held Senior Researcher / Director of Space Applications dept.
 Main activities and responsibilities Romanian Head of delegation in the European Space Agency Program Board on Earth Observation (ESA/PB-EO) Contact for the UN-SPIDER Regional Support Office in Romania Emergency response using Earth Observation data (International Charter, Copernicus Emergency Management Service, UN-SPIDER), Coordinator / Principal investigator / participant in Earth Observation scientific projects
 Expert in satellite data processing and digital cartography, institutional representation (UN-COPUOS, COSPAR, ESA, IAA,...)
 Name and address of employer Romanian Space Agency (ROSA), 21 – 25 Mendeleev str., 010362, Bucharest - Romania

Dates 1995-2003
 Occupation or position held Lecturer
 Main activities and responsibilities Aero-Photo Interpretation and Remote Sensing discipline Emergency response using Earth Observation data (International Charter, GMES ERS, UN-SPIDER)

Name and address of employer Faculty of Geography University "Spiru Haret" Ion Ghica Street, #13, Sector 3, Bucharest

Dates 1980 - 2012
 Occupation or position held Geodetic engineer
 Main activities and responsibilities Project management Geodesy/Photogrammetry (1980-1985), Co-Head of the Surveying department (ROMPROIECT/ISPIF- Hilla /Irak Branch-1985-1986), Cartography, Photogrammetry, RS quality control expert (1986-1987) Satellite data processing, GIS, Deputy Head of Remote Sensing Department (1986-1991), Manager International Projects (1991-1993), Director CRUTA (1993-1995, 1997-1999 and 2007-2012), Project manager /NFP for EU Phare Regional MERA Project (ZZ9211/0502-1995-1997)

Name and address of employer National Institute of Research and Development for Land Reclamation "ISPIF" Bucharest and Romanian Center for Remote Sensing Applied in Agriculture (CRUTA 35-37 Oltenitei Ave, 011464, Bucharest

EDUCATION AND TRAINING

Dates 1993-1999
 Title of qualification awarded Ph.D. in Geography – Magna Cum Laudae
 Principal subjects/ skills covered Remote Sensing Applied in Land Reclamations and Environment

Name and type of organisation providing education and training	Bucharest University- Faculty of Geography
Dates	1990 -1991
Title of qualification awarded	Specialised Higher Education Diploma in Remote Sensing (DESS 3 rd cycle / Higher Educational Level 6, 44 study group university)
Principal subjects/ skills covered	Remote Sensing, Photogrammetry, GIS
Name and type of organisation providing education and training	University Pierre et Marie Curie-Paris VI & Groupement pour le Developpement de la Teledetection Aerospatiale University (GDTA) Toulouse –Franta/ Higher Educational Level 6, 44 study group
Dates	1976 -1980
Title of qualification awarded	D.E. in Geodesy (Higher Educational Level 6, 52 study group topography)
Principal subjects/ skills covered	Remote Sensing, Photogrammetry, GIS, Geodesy, Cartography, Cadastre
Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest, Faculty of Geodesy
Dates	1986-1987
Title of qualification awarded	Post graduate training course certificate "Modern technologies in geodesy, photogrammetry, remote sensing and cartography"
Principal subjects/ skills covered	Geodesy, photogrammetry, remote sensing and cartography expertise
Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest, Faculty of Geodesy
NATIONAL AND INTERNATIONAL PROJECTS (SELECTION)	
Project	"Multidisciplinary complex project for the monitoring, conservation, protection and promotion of the Romanian cultural heritage (RO-CHER)", Complex Projects (2017 Call), Sustaining Institutional Performance Programme, National Plan for Research, Development and Innovation III
Position	Expert
Dates	March 2018 - present
Project	"Detection and Integrated Assessment of Non-authorized water Abstractions using EO (DIANA)", Horizon 2020, call: H2020-EO-2016 (Earth Observation), topic: EO-1-2016, Innovation action
Position	Team responsible
Dates	January 2017 - present
Project	"Space Critical Infrastructure Protection at the Romanian Space Agency (SCIPRO)", Competitiveness Operational Programme 2014-2020, project type: Attracting high-level personnel from abroad in order to enhance the RD capacity
Position	Key expert
Dates	September 2016 - present
Project	"Demonstrating and Promoting Natural Values to Support Decision Making in Romania/Nature4Decision-making – N4D", SEE/EEA Grants
Position	EO keyexpert
Dates	2015 - 2017
Project	„Complex Method for Digital Geomorphologic MAP Elaboration by GIS/Remote Sensing as Support for the Environmental European Directive - GEOMORF” Ministry of Education and Research- PNCDI II programme
Position	Project director
Dates	2008-2011
Project	"GeoInformation in Support of Disaster Management (GEODIM)" - Framework: PNCDI2
Position	Expert
Dates	July 2012 - 2015
Project	"Sustainable Irrigation Water Management and River-basin Governance: Implementing User-driven Services (SIRIUS)" – Framework: EC FP7
Position	Remote Sensing and GIS Expert
Dates	2010 – 2013

Project	"Operational Monitoring Services for Our Changing Environment (GEOLAND 2)" - Framework: EC FP7
Position	Remote Sensing and GIS Expert
Dates	2008 - 2013
Project	"Integrated System of Early Warning, Monitoring and Drought Risk analysis for Romania (SIAT)", Framework: PNCDI2
Position	Expert
Dates	2008 – 2011
Project	"Assessment of the Balance of Metals in Romanian Agrosystems (METAGRO)", Framework: PNCDI2
Position	Project responsible ROSA
Dates	2008 – 2011
Project	"Distance Learning Platform for Specialists in the Field of Integrated Administration and Control Systems in Agriculture (eLPIS)", Framework: PNCDI2
Position	Expert
Dates	2008 – 2011
Project	"Hybrid Method of Updating the Thematic Inventory Regarding the Land-Use by GIS / Remote Sensing Technologies, as Support for Implementing the European Programs for Agriculture – Environment (LCCS07)", Framework: PNCDI2
Position	Project director
Dates	2007 – 2010
Project	Quality control and data management for creation of the Integrated and Administration and Control System / Payment and Intervention Agency (APIA)
Position	Project coordinator
Dates	2006
Project	Project TCP/MOL/2903-3001 "Building capacity in inventory of land cover/land use by remote sensing" / Ministry of Agriculture and State Agency for Land Relations and Cadastre (SALRC) Rep. Moldova
Position	UN/FAO TCCT Consultant in RS Land Cover/Land Use
Dates	2004-2005
Project	"Land Cover/Land Use Inventory by Remote Sensing" for the Agricultural Reform – 1:50000 scale mapping using the FAO-LCCS method - FAO/TCP/ROM 2801 (a)
Position	National Project Director
Dates	2002 to 2004
Project	Strengthening Capacity in Inventory of Land Cover/Land Use by Remote Sensing TCP/AZE/8921 (A) - Azerbaijan
Position	UN/FAO TCCT Consultant in RS Land Cover/Land Use
Dates	1999 to 2001
Project	ECOS Ouverture/Phare project : "Conception and realisation of a Territory Information System for the Environment" / Prahova County Government
Position	Technical advisor; methodological support expert
Dates	1997 to 1999
Project	EU Phare Crop Information System II Project- (agricultural statistics, land use- GIS and image processing) - 1.000.000.ECU
Position	Project manager
Dates	1997 to 1998
Project	Phare Technical Assistance for Romanian Cadastre
Position	Local expert-Romanian team leader
Dates	1996
Project	EU Phare Regional MERA Project (ZZ9211/0502) - agricultural statistics, agrometeorological modelling, forest ecosystem mapping, mapping of soil and land degradation (128.000.Ecu)
Position	National Focal Point / Project responsible
Dates	1995 to 1997

Project	EU Phare Crop Information System I Project- (agricultural statistics, land use-GIS and image processing) 640.000.ECU
Position	Project manager
Dates	1994 to 1996
Project	Monitoring Agriculture with Remote Sensing (pilot project) - EEC finance support
Position	Project manager
Dates	1994
Project	Area frame sampling in Romania (pilot project) EUROSTAT and French MICECO finance support
Position	Project manager
Dates	1993
Project	Regional Inventories in Romania Pilot Project (agricultural statistics - area frame sampling methods) - EEC finance support
Position	Project manager
Dates	1992

STAGES / COURSES / SEMINARS

Duration / Year	3 months / 2010
Stage	FORTRAN 77 advanced user / certificate
Institution / Location	Research Institute for Computers Bucharest
Duration / Year	1 week / 1992
Stage	Teledetecao aplicada as estatisticas agricolas"
Institution / Location	European Commision / Eurocourse Lisbon - Portugal
Duration / Year	1 week 1993
Stage	"Remote sensing applied to agricultural statistics- regional inventories"
Institution / Location	European Commision / Eurocourse Athens - Greece
Duration / Year	1 week /1994
Stage	Agrometeorological modelling"
Institution / Location	European Commision / Eurocourse JRC Ispra - Italy
Duration / Year	2 weeks /1996
Stage	Project Management
Institution / Location	Learning Tree International Paris
Duration / Year	2 weeks /1996
Stage	Technical Management
Institution / Location	Learning Tree International Paris

OTHER RELEVANT INFORMATION

Duration / year	1991 - present
Description	Member of the Romanian Society of Photogrammetry and Remote Sensing-SRFT(President in exercise),
Duration / year	2004 - present
Description	Member of the American society of Photogrammetry and Remote Sensing (ASPRS)
Duration / year	2011-present
Description	Elected Member of International Academy of Astronautics (corresponding member-2011, full member 2017)
Duration / year	1987-present
Description	Member of the Romanian Society of Geograohy

LANGUAGE SKILLS

Mother tongue(s)	Romanian
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Other language(s) Self-assessment European level	English, French		Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production		C2		Proficient user	
	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
English	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
French	A2	Proficient user	A2	Proficient user	A1	Proficient user	A1	Proficient user	A1	Proficient user	A2	Proficient user

TECHNICAL SKILLS	
Remote Sensing data processing	Experience in correction, orthorectification, georeferencing, classification of optical data,
Geospatial database management	ArcGIS 10.x/PRO, Global Mapper/
Spatial analysis and 3D visualization	ArcGIS Spatial Analyst, ArcGIS 3D
Operating Systems	Windows, UNIX

PAPERS (SELECTION)

- Bodescu, Fl., **Badea, A.**, et al 2017- MAES process in Romania – Nature for Decision Making, / Procesul MAES in Romania – Natura in deciziile publice, ISBN 978-606-8038-24-7 (English)/ ISBN 978-606-8038-22-3 (Romanian), 90 pages, NEPA, NINA, WWF Romania
- Bodescu, Fl., **Badea, A.**, et al 2017 – Assessment of Ecosystems and Ecosystem Services in Romania / Evaluarea ecosistemelor si a serviciilor ecosistemice in Romania , 208 pages, ISBN 978-606-8038-23-0 (English) /ISBN 978-606-8038-21-6 (Romanian), – NEPA, NINA, WWF Romania
- Poenaru, V.D., Dana Negula, I., **Badea, A.** and Cuculici, R. (2016). Environmental Impact Assessment of Rosia Jiu Opencast Area Using an Integrated SAR Analysis, The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLI-B8, 2016, p.151-158, XXIII ISPRS Congress, 12-19 July, Prague, Czech Republic.
- Poenaru, V., **Badea, A.**, Cimpeanu, S.M. and Dana, I. (2015). Synthetic aperture radar for assessing land degradation in a salt mining area – Ocnele Mari case study, Romanian Journal of Geography (Rev. Roum. Géogr./Rom. Journ. Geogr.), ISSN:1220 – 5311, 59, (2), p. 117–127, 2015, Bucharest, Romania.
- Dana, I. and **Badea, A.** (2011). *Studies Regarding the Use of Remote Sensing Satellite Data for the Identification of Heavy Metal Pollution in Agricultural Fields*, Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium, ISBN 978-3-901509-83-4, ISSN 1726-9679, Editor B. Katalinic, published by DAAAM International, Wien, Austria
- V. Poenaru, **A. Badea**, I. Dana Negula, C. Moise and S. Cimpeanu (2016), Land degradation monitoring in Braila agricultural area using RADARSAT2 data, Conference Proceedings of the RSCy2016 Conference, Proc. of SPIE Vol. 9688 968815-10, 2016.
- Dana Negula, I., **Badea, A.**, Moise, C. and Poenaru, V.D. (2017). Earth Observation Satellite Data in Support of Water Management for Agriculture, published in AgroLife Scientific Journal, Vol. 6, no 2, 2017, p. 133-136, PRINT ISSN 2285-5718, CD-ROM ISSN 2285-5726, ISSN ONLINE 2286-0126, ISSN-L 2285-5718.
- Poenaru, V.D., **Badea, A.** Dana Negula, I., and Moise, C. (2017). Monitoring Vegetation Phenology in the Braila Plain using Sentinel-2 Data, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. VI, 2017, Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064.
- Bodescu, F.; Moise, C.; **Badea, A.** (2016), Assessment of aquatic ecosystems state based on their main services, 19th AGILE conference on Geographic Information Science, Helsinki, Finland, in vol.: CCM2 River and Catchment Database for Europe – Applications, DOI: 10.13140/RG.2.1.3994.7762
- Poenaru, V.; **Badea, A.**; Cimpeanu, S. M.; Moise, C., (2015), Coherent and non-coherent analysis of the multi-temporal c-band SAR data for agricultural change monitoring, SGEM Conference Proceedings, ISSN 1314-2704, June 18-24, 2015, Vol. 1, 1011-1018 pp, DOI:10.5593/SGEM2015/B21/S10.129;

- JANSEN, LOUISA J M; **BADEA, A.**; MILENOV, P.; MOISE, C.; VASSILEV, V.; MILENOVA, LJUDMILA; DEVOS, W. (2014), The use of the Land-Cover Classification System in Eastern European countries: experiences, lessons learnt and the way forward, chapter in book: Land use and land cover mapping in Europe: practices and trends, Remote Sensing and Digital Image Processing - Volume 18 edited by Ioannis Manakos, Matthias Braun, 03/2014: pages 297-325; Springer Verlag., ISBN: 978-94-007-7968-6 (Print) 978-94-007-7969-3 (Online)
- DANA NEGULA, I., CRACIUNESCU, V., VIRSTA, A., **BADEA, A.**, MOISE, C., MANEA, R., CALIN, M., IRIMESCU, A.(2013). *Downstream Copernicus Service for Emergency Management in Romania*, Proceedings of the 13th International Multidisciplinary Scientific GeoConference SGEM2013, ISSN 1314-2704, DOI:10.5593.
- Dana, I., **Badea, A.** and Moise, C. (2011). *Emergency Response Services Triggered for Flood Events in Romania*, Proceedings of the GeoPreVi (Geodesy – Present and Future) Symposium, 12-13 May 2011, Bucharest, Romania
- Dana, I., **Badea, A.**, Moise, C., Olteanu, V. and Irimescu, A. (2011). *Space-based Maps in Support of Disaster Management Actions in Romania*, Proceedings of the GeoInformation for Disaster (Gi4DM) Management, 3-8 May 2011, Antalya, Turkey
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Date

Signature

17.09.2018