



## Europass Curriculum Vitae

### Personal information

First name / Surname **NEDELCU DAN ALIN**  
Address 041655 Vatra Dornei 5, sector 4, Bucharest, Romania  
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Nationality Romanian  
Date of birth March 9, 1976  
Gender Male

### Work experience

Dates 2017 - today  
Occupation or position held Director  
Main activities and responsibilities Responsible of the Astronomical Institute research strategy and of networking of its branches: Bucharest, Cluj and Timisoara. President of the Scientific Council of the Institute.  
Name and address of employer Astronomical Institute of the Romanian Academy (AIRA) 040557, Bucharest, Str. Cuțitul de Argint 5, sector 4  
Type of business or sector Research & Development

Dates 2016 - 2017  
Occupation or position held Scientific researcher I  
Main activities and responsibilities Astronomical observations, data analysis, participation in research projects in the fields of Astrometry and Planetology, editor of the Romanian Astronomical Yearbook  
Name and address of employer Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Bucharest, Str. Cuțitul de Argint 5, sector 4  
Type of business or sector Research & Development

Dates 2014 - 2016  
Occupation or position held Scientific researcher II  
Main activities and responsibilities Astronomical observations, data analysis, participation in research projects in the fields of Astrometry and Planetology, editor of the Romanian Astronomical Yearbook  
Name and address of employer Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Bucharest, Str. Cuțitul de Argint 5, sector 4  
Type of business or sector Research & Development

Dates 2009 - 2014  
Occupation or position held Scientific researcher III  
Main activities and responsibilities Astronomical observations, data analysis, participation in research projects in the fields of Astrometry and Planetology, editor of the Romanian Astronomical Yearbook  
Name and address of employer Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Bucharest, Str. Cuțitul de Argint 5, sector 4  
Type of business or sector Research & Development

Dates	February 2006 – August 2007
Occupation or position held	Scientific researcher
Main activities and responsibilities	Astrometry, photometry and spectroscopy of ESA's Rosetta space mission targets
Name and address of employer	European Space Agency, Paris HQ, ESA's traineeship program. Institut de mécanique céleste et de calcul des éphémérides, Paris Observatory Laboratoire d'études spatiales et d'instrumentation en astrophysique, Paris Observatory
Type of business or sector	Research & Development
Dates	2007 - 2009
Occupation or position held	Scientific researcher
Main activities and responsibilities	Astronomical observations, data analysis, participation in research projects in the field of Astrometry
Name and address of employer	Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Bucharest, Str. Cuțitul de Argint 5, sector 4
Type of business or sector	Research & Development
Dates	2003 – 2007
Occupation or position held	Research assistant
Main activities and responsibilities	Astronomical observations & data analysis
Name and address of employer	Astronomical Institute of the Romanian Academy (AIRA), Fundamental Astronomy Department, 040557, Bucharest, Str. Cuțitul de Argint 5, sector 4
Type of business or sector	Research & Development
Dates	2001 - 2002
Occupation or position held	Network and system administrator
Main activities and responsibilities	Network administration for 200 dial-up users system. Web design
Name and address of employer	Romania Data System, Slatina Branch, Olt
Type of business or sector	Private sector
<b>Education and training</b>	
Dates	2007 - 2010
Title of qualification awarded	PhD in Astronomy and Astrophysics
Principal subjects/occupational skills covered	Thesis Title: <i>"Modélisation dynamique et spectroscopique des astéroïdes. Applications aux géocroiseurs et aux cibles de missions spatiales"</i> .
Name and type of organisation providing education and training	École Doctorale d'Astronomie & d'Astrophysique d'Ile-de-France, Observatoire de Paris
Dates	1998 - 2000
Title of qualification awarded	MSc Physics
Principal subjects/occupational skills covered	Theoretical physics
Name and type of organisation providing education and training	Faculty of Physics, University of Craiova, Romania
Dates	1999 – 2000
Title of qualification awarded	-
Principal subjects/occupational skills covered	MSc Student in the Erasmus-Socrates program Theoretical physics

Name and type of organisation providing education and training	Institute for Theoretical Physics, University of Hannover, Germany									
Dates	1994 – 1998									
Title of qualification awarded	BSc Physics									
Principal subjects/occupational skills covered	Theoretical physics									
Name and type of organisation providing education and training	Faculty of Physics, University of Craiova, Romania									
Dates	1990 – 1994									
Title of qualification awarded	Baccalaureate Diploma									
Principal subjects/occupational skills covered	Mathematics and physics									
Name and type of organisation providing education and training	Slatina, Olt, Industrial High school 3, mathematics-physics profile									
<b>Personal skills and competences</b>										
Mother tongue(s)	<b>Romanian</b>									
Other language(s)										
Self-assessment										
European level (*)										
<b>English</b>	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	B2	Proficient user
<b>French</b>	B1	Proficient user	B1	Proficient user	B1	Independent user	B1	Independent user	A2	Independent user
Social skills and competences	<p>Team work: I have worked in research teams at Astronomical Institute of the Romanian Academy (AIRA) and in Paris Observatory</p> <p>Infrared spectroscopy of Solar System bodies using SpexTool, IRAF and AutospeX</p> <p>Physical and dynamical studies of Solar System bodies. Long term numerical integrations of minor bodies population. Ephemeris computations.</p> <p>Project director of PNII RU-TE grant <i>Physical Studies of Solar System Bodies</i>, total budget 165k Euro, leading a team of 4 scientists</p> <p>Project director of ROSA/STAR grant <i>Compositional and dynamical modeling of near-Earth asteroids</i>, total budget 170k Euro, leading a team of 9 scientists</p> <p>Director of the joint project France – Romania “<i>Physique et Astrométrie des Objets du Système Solaire</i>”, total budget 20k Euro</p> <p>Principal investigator of the observational program “The Missing V-type NEAs” awarded 16h of observations on NASA IRTF 3m telescope using SpeX/MORIS instruments</p>									
Computer skills and competences	Author of astronomical data acquisition, reduction and analysis software with over 10000 lines of code in ANSI C developed on *NIX systems. Good knowledge of Linux system administration and programming.									
Driving licence	B category									

## Additional information

### AFFILIATIONS

Research associate of the *Institut de mécanique céleste et de calcul des éphémérides*, Paris Observatory 2012 -

Member of the *International Astronomical Union* Division F, Commission 15 "Physical Study of Comets & Minor Planets" & Commission 20 "Positions & Motions of Minor Planets, Comets and Satellites"

Member of the executive board of the *Romanian National Committee of Astronomy*, Astronomical Institute of the Romanian Academy (AIRA) – Bucharest Observatory, 040557, Str. Cuțitul de Argint 5, sector 4, Bucharest, Romania

### PARTICIPATION IN SCIENTIFIC RESEARCH PROJECTS AND PROGRAMMES

PECS (Plan for European Cooperating States) / GAIA (Global Astrometric Interferometer for Astrophysics) – Improving relative positions of reference stars around ICRF radio-sources, AIRA, 2004-2009, participant

PNII RU-TE *Physical Studies of Solar System Bodies*, 2011-2014, AIRA, Project director

ROSA/STAR *Compositional and dynamical modeling of near-Earth asteroids*, AIRA, Project director

Joint project France – Romania "Physique et Astrométrie des Objets du Système Solaire", Project director

ROSA/STAR "Near-Earth Environment Mobile Observatory - NEEMO", 2017 – 2019, Project coordinator at AIRA

Ministry of Research and Innovation, 2017 – 2018, "Coordination of Space Surveillance Activity for the management of risk associated to atmospheric entry of space debris and natural object", Project coordinator at AIRA

PNIII "Institutional capabilities and services for research, surveillance and forecasting of risks from extra-atmospheric space", NEO WP coordinator

### PUBLICATIONS LIST

Full list available at: <https://publons.com/researcher/2812624/dan-alin-nedelcu/>

Total ISI articles: 25

Sum of time cited: 268

h-index: 9

<https://publons.com/researcher/2812624/dan-alin-nedelcu/metrics/>

### MOST REPRESENTATIVE PUBLICATIONS

Dumitru, B. A., Birlan, M., Popescu, M., **Nedelcu, D. A.**, "Association between meteor showers and asteroids using multivariate criteria", *Astronomy & Astrophysics*, 2017, Oct, 607, A5

Birlan, M., Popescu, M., **Nedelcu, D. A.**, Turcu V. & 8 co-authors "Characterization of (357439) 2004 BL86 on its close approach to Earth in 2015", *Astronomy & Astrophysics*, 2015, Sep, 581, A3

**Nedelcu, D. A.**, Birlan, M., Popescu, M., Badescu, O., Pricopi, D., "Evidence for a source of H-chondrites in the outer main asteroid belt", *Astronomy & Astrophysics*, 2014, Jul, 567, L7+

**Nedelcu, D. A.**, Birlan, M., Souchay, J., Assafin, M., Andrei, A. H., Badescu, O., Popescu, P., Paraschiv, P., "Apparent close approaches between near-Earth asteroids and quasars. Precise astrometry, frame linking", *Astronomy & Astrophysics*, 2010, Jan, 509, A27+

**Nedelcu, D. A.**, Birlan, M., Vernazza, P., Binzel, R. P., Fulchignoni, M., Barucci, M. A., "E-type asteroid (2867) Steins: flyby target for Rosetta", *Astronomy & Astrophysics*, 2007, Oct, 473, L33-L36

**Nedelcu, D. A.**, Birlan, M., Vernazza, P., Descamps, P., Binzel, R. P., Colas, F., Kryszczyńska, A., Bus, S. J., "Near infra-red spectroscopy of the asteroid 21 Lutetia. II. Rotationally resolved spectroscopy of the surface", *Astronomy & Astrophysics*, 2007, Aug, 470, p1157-1164

Birlan, M., **Nedelcu D. A.**, Descamps, P., Berthier, Jerome, Marchis, F., Merouane, S., "Spectral properties of (854) Frostia, (1333) Cevenola, and (3623) Chaplin", *Monthly Notices of the Royal Astronomical Society*, 2011, Jul, 415, p587-595

Birlan, M., **Nedelcu, D. A.**, "The Physics of Asteroids, Their Junction with Dynamics", Book *Lecture Notes in Physics, Berlin Springer Verlag*, 2010, Mar, 790, ed J. Souchay and R. Dvorak, p229-250

Assafin, M., **Nedelcu, D. A.**, Badescu, O., Popescu, P., Andrei, A. H., Camargo, J. I. B., da Silva Neto, D. N., Vieira Martins, R., "Optical astrometric positions of 59 northern ICRF radio sources", *Astronomy & Astrophysics*, 2007, Dec, 476, p989-993

Birlan, M., **Nedelcu, D. A.**, Lainey, V., Arlot, J.-E., Binzel, R. P., Bus, S. J., Rayner, J., Thuillot, W., Vaduvescu, O., Colas, F., "Photometric, astrometric analysis of a mutual event between the Uranian satellites *Miranda*, *Oberon*", *Astronomische Nachrichten*, 2008, Jul, 329, p567-572