

## CURRICULUM VITAE

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# Ovidiu VADUVESCU

## Astronomer

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### MAIN INTERESTS:

- Dwarf galaxies: dwarf irregulars, blue compact dwarfs, dwarf ellipticals, dwarf spheroidals;
- Asteroids and comets: near Earth asteroids, main belt asteroids, main belt comets;
- Observing techniques: near infrared and visible imaging, large field surveys, spectroscopy;
- Astronomy education and public outreach;
- Astronomy software development, data mining, algorithms, big data;
- Astronomical observatories, site characterization, instrumentation.

### WORK EXPERIENCE:

- **2009 – Present – Observing Support Astronomer**, Isaac Newton Group of Telescopes (ING), La Palma, Canary Islands, Spain (website [here](#)).
- **2007 – 2008 – Postdoctoral Fellow & Professor**, Institute for Astronomy, Universidad Catolica del Norte, Antofagasta, Chile (Comité Mixto ESO - Gobierno de Chile, website [here](#)).
- **2006 – Postdoctoral Fellow**, Astrophysics and Cosmology Research Unit, University of Kwazulu-Natal, and South African Astronomical Observatory, Durban, South Africa (website [here](#)).
- **2000 – 2005 – Research Assistant**, Department of Physics and Astronomy, York University, Toronto, Canada (website [here](#)).
- **1991 – 1997 – Research Assistant**, Astronomical Institute of the Romanian Academy, Bucharest, Romania (website [here](#)).

### EDUCATION:

- **2000 – 2005 – PhD (Physics and Astronomy)**, York University, Toronto, Canada.  
Thesis: Infrared Properties of Star Forming Dwarf Galaxies. Advisor: Prof. Dr. Marshall McCall.  
The thesis is available [here](#) (pdf, 7 MB).
- **1993 – 1997 – PhD (Mathematics and Astronomy)**, Babes-Bolyai University Cluj-Napoca, Romania.  
The curriculum contained three exams, three written dissertations and the final public thesis defense.  
Thesis: Study of Some Dynamical Phenomena in the Solar System. Advisor: Prof. Dr. Arpad Pal.  
The following [link](#) points to my scanned thesis (in Romanian).
- **1986 - 1991 – MSc (Mathematics and Computer Sciences)**, University of Craiova, Romania.  
The curriculum contained about 50 exams, oral presentations, written colloquia and a diploma thesis.  
Thesis: Calculus of the Orbits and Ephemerides in the Solar System. Applications on the Computer.  
Advisor: Prof. Dr. Ion Cojocar. The following [link](#) points to my scanned thesis (in Romanian).

### ASSOCIATE (UN-PAID) POSITIONS:

- **2010 – Present – Research Associate**, [IAC](#), Tenerife, Canary Islands, Spain.
- **2005 – Present – Research Associate**, [IMCCE](#), Observatoire de Paris, France.
- **2000 – 2011 – Research Associate**, [The Astronomical Institute of the Romanian Academy](#).

**TEACHING POSITIONS:**

- **Sep 2016 – present – Doctoral thesis advisor** – Habilitated by the Doctoral School of the University of Craiova to supervise theses in astronomy and astrophysics (Dwarf Galaxies and Near Earth Asteroids) of Romanian PhD students ([UCV link](#));
- **2015 – present – Consultant of the PhD thesis** “*Contributions to the Knowledge of Physical Properties of Near Earth Asteroids Observed within the EURONEAR Project*”, student Marian Predatu, advisor Prof. Radu Constantinescu, University of Craiova, Romania;
- **2015 – present – Consultant of the PhD thesis** “*Visual Analysis Techniques of Space Multi-dimensional Data*”, student Denisa Copandean, advisor Prof. Dorian Gorgan, Technical University of Cluj-Napoca, Romania;
- **2013 – present – Studentship Program Manager** of the Isaac Newton Group, La Palma, Canary, in charge of selection, training, management and some scientific advising for 5-6 annual students working part of the [ING internship program](#);
- **2008 (Mar-Dec) – Professor Associate**, Scientific Advisor and Practical Astronomy class, [Institute of Astronomy](#), Universidad Catolica del Norte, Antofagasta, Chile;
- **2003 (May-Jun), 2003-2004 (May-Jun), 2004/2005 (Sep-Apr), 2005 (Sep-Dec) – Professor Associate**, Astronomy SCIE 013 class, [Humber College](#), Toronto, Canada;
- **2000 – 2005 – Teaching Assistant** (Astronomy NATS 1740 & AK/NATS 1720), [York University](#), Toronto, Canada;
- **1997 – Professor Associate** (Computer Science), [Ion Barbu High School](#), Bucharest, Romania;
- **1995 – 1997 – Professor Associate** (Astronomy & Computer Science), [Miron Nicolescu College](#), Bucharest, Romania.

**OTHER WORK EXPERIENCE:**

- **2008 – Present – Coordinator Astronomer**, [Astro Travels](#) (small business), La Palma;
- **1998 – 2001 – Computer Programmer**, [Financial Models Company](#), Mississauga, Canada;
- **1997 – 1998 – Computer Programmer**, International Programmers Guild, Mississauga, Canada;
- **1998 – 1999 – Project Leader**, [EuRo Eclipse 99](#), Total Solar Eclipse 99 (small business), Canada.

**OBSERVING EXPERIENCE:**

- **Subaru 8.3m**, Mauna Kea, Hawaii – SuprimeCam archive data mining of NEAs (1999 - 2012);
- **ESO/VLT 8.2m**, Paranal, Chile – NIR imaging of dwarf galaxies in Fornax and Hydra clusters (2008 – 2009, 6hr service);
- **Gemini North 8.1m**, Mauna Kea, Hawaii – Spectroscopy of BCDs in Virgo (12h 2003, service);
- **Gemini South 8.1m**, Cerro Pachon, Chile – Spectroscopy of star forming galaxies in clusters: Fornax (15h 2007), Hydra (20h 2008) and Antlia (15h 2010), service;
- **ING/WHT 4.2m**, La Palma, Canary – Observing Support and Service (~250n 2009-2015);
- **CTIO/Blanco 4m**, Cerro Tololo, Chile – NIR imaging of dwarf galaxies (10n 2006 – 2009);
- **CTIO/Blanco 4m**, Cerro Tololo, Chile – Recovery of Near Earth Asteroids (2n in 2011);
- **CFHT 3.6m**, Mauna Kea, Hawaii – NIR imaging of dwarf galaxies (6n 2002, 2004);
- **CFHT 3.6m**, Mauna Kea, Hawaii – CFHT Legacy Survey data mining of NEAs (2008 - 2009);
- **ESO/NTT 3.5m**, La Silla, Chile – NIR imaging of dwarf galaxies in the Local Volume (5n 2006, 2008);
- **TNG 3.5m**, La Palma, Canary – NIR imaging of dwarf galaxies in nearby clusters (4n 2010);
- **ING/INT 2.5m**, La Palma, Canary – Follow-up and discovery of NEAs and MBAs (50n 2009-2016), light-curves of NEAs (10n 2013-2015), H $\alpha$  imaging of galaxy clusters (10n, 2009-2010), other collaborations, discretionary tasks and student training (40n 2012-2016);
- **ESO/MPG 2.2m**, La Silla, Chile – Follow-up and discovery of NEAs and MBAs (3n 2008);
- **OAN-SPM 2.1m**, Baja California, Mexico – NIR imaging of BCDs in Virgo and dIs in the Local Volume (21n 2001 – 2004);
- **David Dunlap 1.9m**, University of Toronto, Canada – Spectroscopy of AGNs (5n, 2002 & 2003);
- **Mercator 1.3m**, La Palma, Canary – Light-curves of NEAs (20n, 2014-2015);
- **Haute Provence 1.2m**, France – Follow up of NEAs & PHAs (6n 2007; 5n 2010);
- **Pic du Midi 1m**, France – Follow up of NEAs & PHAs (9n 2006);
- **ESO 1m, La Silla**, Chile – Inspection of the ESO1m telescope and observations of NEAs (3n 2007);

- **CTIO 1m**, Cerro Tololo, Chile – Follow-up and photometry of binary NEAs and MBAs (10n 2008);
- **OCIW Swope 1m**, Las Campanas, Chile – Follow-up and photometry of NEAs (15n 2008, 2009);
- **ESA-OGS 1m**, Tenerife, Canary – Light-curves of NEAs (PI 30n 2015, observer Radu Cornea);
- **IAC80 0.8m**, Tenerife, Canary – Light-curves of NEAs (PI 30n 2015, observer Radu Cornea);
- **Cerro Armazones 0.84m**, Chile – Inspection of the telescope, observations of NEAs (3n 2007);
- **York University 0.6m**, Toronto, Canada – Astrometry & Photometry of Near Earth Asteroids (10n 2002, 2003 & 2004); Observing projects: H $\alpha$  photometry of the planetary nebula NGC 2392, and Photometry of the open cluster NGC 663 (Prof. M. McCall class, 2000-2001);
- **Cerro Armazones 0.4m**, Chile – Cataclismic variables (7n 2007);
- **Astronomical Institute 2x0.4m**, Bucharest, Romania – Astrometry & Photometry of planetary satellites, asteroids, and comets (about 50n 1993 – 1997);
- **Astronomical Institute 0.2m** Meridian Refractor, Bucharest, Romania – Astrometric Star Catalogs;

### **EXPERIENCE IN COMPUTERS:**

- Operating Systems: Linux, UNIX, Windows, MSDOS, Alpha/Open VMS;
- Programming: Turbo Pascal, Delphi, C/C++, Turbo C++, FORTRAN, Python;
- CCD, Image Acquisition and Processing: IRAF, THELI, SExtractor, IDL, Astrol, QMiPS, WinMips;
- Internet Applications and Development: Perl, PHP, CGI, HTML, Java Script;
- Relational Data Bases: Sybase, SQL, Access, D-Base.

### Major Achievements and Development:

- Coding about 60 astronomy software (more than 50,000 coding lines) in Pascal/Delphi, C/C++, PHP, IRAF, FORTRAN, under MSDOS, Windows, Linux and UNIX. A list with brief description is available [online](#);
- [Celestial Maps](#) (1992 – 2005; Vaduvescu, O., in collaborators with Birlan, M., AIRA & IMCCE Paris, and Lucian Curelaru, Romania): released in 10 versions: v.1-5 developed in Romania in Turbo Pascal, versions 7-10 in Canada in Delphi. Descriptions and some downloads available [online](#); The package (560 MB on a CD-ROM) maps celestial sources under five types of projections using 15 off-line catalogues (SAO, PPM, Tycho-2, GSC 1.1, NGC 2000, etc) plus other four online via Vizier (GSC 2, USNO-A2, USNO-B1, 2MASS), also overlying the DSS atlas via CADC or STScI;

#### Few Achievements and Patents:

- In April 1994, Celestial Maps v.3.1 was contracted by La Maison de l'Astronomie, Paris, Astro News 37, 1994 (scan [here](#));
- Between 1996-1999 Celestial Maps v.4.5 computer aided graphics The Astronomical Yearbook, The Astronomical Institute and Romanian Academy Printing House in Bucharest;
- In March 1998 Celestial Maps v.5.0 was published with [ASDS](#) (Astronomical Software Documentation Service, NASA Astrophysics Data Program);
- Vaduvescu, O, Curelaru, L., & Grigore, V., 2001 – Celestial Maps v.8.0 was employed to publish *The Map of the Northern Sky* by SARM, website [here](#).
- Starting by 2004, Celestial Maps 10 has become the only software to access the catalogs USNO-A2, USNO-B1, GSC 2.2, 2MASS (via Vizier), the DSS atlas server (via CADC or STScI), and ASTORB asteroid orbit catalog (using a numerical integrator), thus being capable to assist in guiding large and very large telescopes in observations.
- Computer aided graphics and publishing The Astronomical Yearbook, The Astronomical Institute, The Romanian Academy of Sciences Publishing House.
- Contributions in setting and system administration of a few servers:
  - Apple XServ Raid, 4 GB RAM, 1 TB HD, running OS X (2004-2005, Canada);
  - DEL PowerEdge 460 Server, 2 GB RAM, 450 GB HD running Linux (2001-2005, Canada);
  - Pentium IV and III (3 PCs), running Windows and Linux (2000-2005, Canada);
  - Silicon Graphics Challenge & INDY Graphic Workstation SGI UNIX (1995-1997, Romania).

**OTHER VOCATIONAL ACTIVITIES:**

- 2015 – Present: Member of the International Astronomical Union ([IAU](#));
- 2015 – Present: Scientific co-advisor of PhD student Marian Predatu, *Contributions in the physical properties of NEAs*, University of Craiova, Romania;
- 2015 – Present: Scientific co-advisor of PhD student Denisa Copandean, *Automate Moving Source Detection Pipeline for EURONEAR*, Technical University Cluj-Napoca, Romania;
- 2014 – 2015: Discovery of the first 9 Near Earth Asteroids from La Palma Observatory ORM ([ING news](#));
- 2012 – 2015: Manager of the Isaac Newton Telescope (INT 2.5m);
- 2013 – 2014: Scientific advisor of MSc graduate Vlad Tudor (ING and Leicester University UK, un-paid);
- 2009 – present: Instrument specialist of the Wide Field Camera (WFC, INT 2.5m telescope), PFIP and PAUCam imaging cameras (WHT 4.2m telescope), Isaac Newton Group (ING);
- 2010 – 2011: Instrument specialist of the Intermediate Dispersion Spectrograph (IDS, INT 2.5m telescope)
- 2012 – Scientific referent for the MSc thesis of Angie Barr, University Catolica del Norte, Chile (thesis director: prof. Rolf Chini, Buchum University, Germany);
- 2011 – 2012: Co-organizer of the International Meteor Conference 2012 ([IMC 2012](#)), 15-23 Sep 2012, collaboration between Astro Travels (small business), insular government Cabildo of La Palma and [IMO](#);
- 2010 – 2015: Via [Astro Travels](#) organising expeditions and conferences in La Palma and Tenerife for a total of about 300 amateur astronomers, professors, public outreach people, professional astronomers and astro-tourists, including 100 Romanian amateurs (5 expeditions), 100 Finish high-school students (3 expeditions), the IMC 2012 conference and two science expeditions from Slovakia and Japan;
- 2007 – 2008: Representative of the Universidad Catolica del Norte (Chile) for the LSST Science Collaboration (Galaxies and Solar System groups);
- 2006 – present: Leader of the *European Near Earth Asteroids Research* project ([EURONEAR](#));
- 2008 – present: Discoverer and co-discoverer of about 250 asteroids based on observations with ESO/MPG 2.2m in La Silla, Blanco 4m in Cerro Tololo, INT 2.5m in La Palma; and Swope 1m in Las Campanas (teamwork including about 10 students and amateur astronomers);
- 2008 – Proposing to the IAU 12 Romanian names to be given to the first numbered asteroids discovered by a Romanian EURONEAR team lead by two astronomers from Diaspora (O. Vaduvescu of IA/UCN Chile and M. Birlan of IMCCE France); First 5 such names accepted in 2011-2012: (263516) [Alexescu](#), (257005) [ArpadPal](#), (320790) [Anestin](#), (330634) [Boico](#), (346261) [Alexandrescu](#);
- 2007 - present: Scientific advisor (volunteer, collaborations conducted mostly via internet) of 15 Romanian students from Bucharest and Cluj-Napoca Universities (4 of them PhD and MSc students now in Bonn and Armagh), and amateur astronomers from SARM, Bucharest and Brasov Astroclubs, Galati Observatory, etc.
- 2008 – Scientific advisor of BSc students Francisco Pozo & Angie Bar, Universidad Catolica del Norte, Chile;
- 2007 – 2008: Manager of the Observatorio Cerro Armazones, Institute of Astronomy, Universidad Catolica del Norte, Chile;
- 1985 – present: Public outreach lecturer in astronomy meetings, participation in observational camps, co-organizer of youth astronomical competitions, mass-media talks, conferences & press releases, member of Romanian Society for Meteors and Astronomy (1993-Present), Bucharest Astroclub (1991-2002), RASC Toronto Centre (1997-2000), IA/UCN Chile (2007-2008);
- 1998 – 1999: Co-organizer of [EuRo Eclipse 99](#). About 250 amateurs and professionals (170 from abroad) observed with this project the Total Solar Eclipse on 11 August 1999 in Romania (collaboration with SARM & Romantic Travel);
- 1996: MSC thesis co-advisor of student Paul Anca, University of Sibiu, Romania.

**PUBLICATIONS:**

[276 ADS references](#)

[62 refereed publications](#)

[22 first author refereed papers](#)

861 citations total

687 refereed citations of refereed papers

142 refereed citations of first author refereed papers

Dwarf Galaxies (Principal Investigator):

- Vaduvescu, O., Kehrig, C., Smith-Castelli, A., Bassino, L., Calderon, J. P., 2014: *Searching for Star Forming Galaxies in the Antlia Cluster*, A&A 563, 118 (link [ADS](#));
- McCall, M. L., Vaduvescu, O., Pozo Nunez, F., Barr Dominguez, A., Fingerhut, R., Unda-Sanzana, E., Li Bintao, Albrecht, M., 2012, A&A, 540, 49, *Fundamentals of the Dwarf Fundamental Plane*; (link [ADS](#));
- Vaduvescu, O., Kehrig, C., Vilchez, J. M., Unda-Sanzana, E., 2011, A&A 533, 65 – *Searching for Star-Forming Galaxies in the Fornax and Hydra Clusters* (link [ADS](#));
- Fingerhut, L. R., McCall, M. L., Argote, M., Cluver, M. E., Nishiyama, S., Rekola, R. T. F., Richer, M. R., Vaduvescu, O., Woudt, P. A., 2010, ApJ 716, 792 – *Deep Near-Infrared Surface Photometry of 80 Dwarf Irregular Galaxies in the Local Volume* (link [ADS](#));
- Vaduvescu, O. & McCall, M., 2008, A&A 487, 147 – *The Fundamental Plane of Dwarf Irregular Galaxies* (link [ADS](#));
- Vaduvescu, O., McCall, M. L., & Richer, M., 2007, AJ, 134, p. 604 – *Chemical Properties of Star Forming Dwarf Galaxies* (link [ADS](#) or [here](#));
- Vaduvescu, O., McCall, M. L., & Richer, M., 2005, AJ, 131, p. 1318 – *Properties of Star Forming Dwarf Galaxies: II. Blue Compact Dwarf Galaxies in the Virgo Cluster* (link [ADS](#) or [here](#));
- Vaduvescu, O., McCall, M., Richer, M., & Fingerhut, R., 2004, AJ, 130, p. 1593 – *Properties of Star Forming Dwarf Galaxies: I. Dwarf Irregular Galaxies in the Local Volume* (link [ADS](#) or [here](#));
- Vaduvescu, O., & McCall, M., 2004, PASP, 116, 821, p. 640 – *Strategies for Imaging Faint Extended Sources in the Near-Infrared* (link at [ADS](#) or [here](#));

Near Earth Asteroids (Principal Investigator):

- Vaduvescu, O. and 15 co-authors, 2016: *Data mining of NEAs in the Subaru Suprime-Cam archive*, submitted to AN (8 Sep 2016);
- Aznar, A., Predatu, M., Vaduvescu, O. and Oey, J., 2016: *EURONEAR – First Lightcurves and Physical Properties of Near Earth Asteroids*, sent to Romanian Journal of Physics (Jul 2016);
- Vaduvescu, O. and 53 co-authors, 2015: *First EURONEAR NEA discoveries from La Palma using the INT*, MNRAS 449, 1614 (link [ADS](#));
- Vaduvescu, O. and 38 co-authors, 2013: *739 observed NEAs and new 2-4m survey statistics within the EURONEAR network*, P&SS 85, 299 (link [ADS](#));
- Vaduvescu, O. and 14 co-authors, 2013: *Mining the ESO WFI and INT WFC archives for known Near Earth Asteroids. Mega-Recovery software*, Astron. Nachr, 334, 718 (link [ADS](#));
- Vaduvescu, O. and 20 co-authors, 2011: *EURONEAR – Recovery, Follow-up and Discovery of NEAs and MBAs using Large Field 1-2m Telescopes*, P&SS 59, 1632 (link [ADS](#));
- Vaduvescu, O., Tudorica, A., Birlan, M., Toma, R., Badea, M., Dumitru, D., Opriseanu, C., Vidican, D., 2011, Astron. Nachr., 332, 6., 580, *Mining the CFHT Legacy Survey for known Near Earth Asteroids* (link [ADS](#));
- Birlan, M., Vaduvescu, O. and 19 co-authors, 2010, A&A 511A, 40 – *More than 160 Near Earth Asteroids observed in the EURONEAR Network*, (link [ADS](#));
- Vaduvescu, O., Curelaru, L., Birlan, M., Bocsa, G., & Tudorica, A., Berthier, J., 2009 – *EURONEAR – Data Mining of Asteroids and Near Earth Asteroids*, Astron. Nachr. 330, 698 (link [ADS](#));
- Vaduvescu, O., Birlan, M., Colas, F., Nedelcu, A., & Sonka, A., 2008, P&SS 56, 1913 – *EURONEAR – First Results* (link [ADS](#));
- About 30,000 positions of about 5,000 minor planets and 1500 NEAs (follow-up, recovery and discovery) published in more than 100 Minor Planet Circulars and Minor Planet Electronic Circulars observed by EURONEAR since 2006 (link [ADS](#));
- Birlan, M., Vaduvescu, O., Nedelcu, A., EURONEAR Team, 2010, RoAJ 20, 119 - *High-Precision Astrometry of NEAs via EURONEAR Observations* ([ADS](#) link);
- Vaduvescu, O., & Birlan, M., 2006, RoAJ 16/2, p. 201 – *Planning Near Earth Asteroid Observations on a 1m Class Telescope*, ([astro-ph/0702027](#));
- Vaduvescu, O., 2004 & 2005, RoAJ 14/2, 2004 and 15/1, 2005 – *Observing Near Earth Asteroids with a Small Telescope*, Romanian ([astro-ph/0504231](#));

Other Publications (Principal Investigator):

- Vaduvescu, O., 2004, [math/0404109](#) – *An Astronomical View-point on the Easter Date*;
- Vaduvescu, O., 2000, RASC Journal, 94-1, 32 – *EuRo Eclipse 99*;

- Vaduvescu, O., Stefanescu, G., & Birlan, M., 1998, RoAJ, 8/1 – *CCD and Photographic Observations of The Comet C/1996 B2 (Hyakutake)* (link [here](#));
- Vaduvescu, O., 1996, RoAJ, 6/1- *Package for Preparing and Processing an Astronomical Observation*;
- Vass, G., Stefanescu, G., & Vaduvescu, O., 1996, RoAJ, 6/2 – *Measurement and Astrometric Reduction of CCD Images in Bucharest*;
- Vaduvescu, O., 1996, Occultation Newsletter (IOTA), 6/12 – *Appulses to PPM Stars of the Comet C/1996 O1 (Hale-Bopp)*;
- Vaduvescu, O., 1995, 1996, European Asteroidal Occultation Network Information Bulletins, 20 & 21.
- Vaduvescu, O. & Soulie, E., 1994, Obs Travaux, 40, 23 – *Paques Orthodoxe et Calendrier Gregorien*;
- Vaduvescu, O., 1993, The Astronomical Yearbook, The Astronomical Institute and Romanian Academy, *Study on the Easter Date* (in Romanian);

Other Publications (Collaborations as co-investigator mostly observational):

Near Earth Asteroids, Binary and Paired Asteroids, Main Belt Comets, Novae/Supernovae, Gamma Ray Bursts, GEM-EUSO mission, others.

- Vallely, P. and other 21 co-authors, 2016: Supernova 2014J at M82 - II. Direct analysis of a middle-class Type Ia supernova, MNRAS 460, 1614 (link [ADS](#));
- Galbany, L. and other 23 co-authors, 2016: *SN 2014J at M82 - I. A middle-class Type Ia supernova by all spectroscopic metrics*, MNRAS 457, 525 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *Space experiment TUS on board the Lomonosov satellite as pathfinder of JEM-EUSO*, ExA 40, 301 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *The EUSO-Balloon pathfinder*, ExA 40, 281 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *JEM-EUSO: Meteor and nuclearite observations*, 2015 ExA 40, 253, (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *Science of atmospheric phenomena with JEM-EUSO*, ExA 40, 239 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *Ultra high energy photons and neutrinos with JEM-EUSO*, ExA 40, 215A (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *Performances of JEM-EUSO: energy and X max reconstruction*, ExA 40, 183 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *Performances of JEM-EUSO: angular reconstruction. The JEM-EUSO Collaboration*, ExA 40, 153 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *The JEM-EUSO observation in cloudy conditions*, ExA 40, 135 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *JEM-EUSO observational technique and exposure*, ExA 40, 117 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *Calibration aspects of the JEM-EUSO mission*, ExA 40, 91 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *The infrared camera onboard JEM-EUSO*, ExA 40, 61 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *The atmospheric monitoring system of the JEM-EUSO instrument*, ExA 40, 45 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *The JEM-EUSO instrument*, ExA 40, 19 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *The JEM-EUSO mission: An introduction*, ExA 40, 3 (link [ADS](#));
- Thuillot, W. and other 73 co-authors incl. Vaduvescu, O., 2015, *The astrometric Gaia-FUN-SSO observation campaign of 99942 Apophis*, A&A 583, 59 (link [ADS](#));
- Birlan, M. and other 11 co-authors incl. Vaduvescu, O., 2015, *Characterization of (357439) 2004 BL86 on its close approach to Earth in 2015*, A&A 581, 3 (link [ADS](#));
- Hornoch, K., Vaduvescu, O. and other co-authors (ING students observers), 21 Astronomical Telegrams publishing discoveries and confirmations of novae in M81 and M31 galaxies 2012-2015, ATel (link [ADS](#));
- Christou, A., Vaduvescu, O., Tudor, V., Asher, D., Toma, R., Knapen, J., 2014, *New Martian Trojans and an update on the Eureka cluster*, ACM 2014 conference, Helsinki, Finland (link [ADS](#));
- Norris, M. A., and 19 co-authors incl. Vaduvescu, O., 2014, *The AIMSS Project - I. Bridging the star cluster-galaxy divide*, MNRAS 443, 1151 (link [ADS](#));
- Levan, A. and 41 co-authors incl. Vaduvescu, O., 2014, *A New Population of Ultra-long Duration Gamma-Ray Bursts*, ApJ 781, 13 (link [ADS](#));
- Moreno, F.; Cabrera-Lavers, A.; Vaduvescu, O.; Licandro, J.; Pozuelos, F., 2013, ApJ 770, 30, *The Dust Environment of Main-Belt Comet P/2012 T1 (PANSTARRS)* (link [ADS](#));

- Adams, J. H. et al, 2013, *Astroparticle Physics* 44, 76, *An evaluation of the exposure in nadir observation of the JEM-EUSO mission* (link [ADS](#));
- Wiersema, K., Vaduvescu, O., Tanvir, N., Levan, A., Hartoog, O., 2013, GRB Coordinates Network, Circular Service, 14617, 1, *GRB 130427A: host galaxy observations* (link [ADS](#));
- Pravec, P. and 41 co-authors incl. Vaduvescu, O., 2011, *Icarus* 218, 125, *Binary Asteroid Population. 2. Anisotropic distribution of orbit poles of small, inner main-belt binaries* (link [ADS](#));
- Moreno, F. and 8 co-authors incl. Vaduvescu, O., 2011, *ApJ* 738, 130, (596) *Scheila in outburst: a probable collision event in the Main Belt Asteroid Belt* (link [ADS](#));
- Levan, A. and 62 co-authors incl. Vaduvescu, O., 2011, *Science*, 333, 199, *An Extremely Luminous Panchromatic Outburst from the Nucleus of a Distant Galaxy* (link [ADS](#));
- Cano, Z. and 73 co-authors incl. Vaduvescu, O., et al., 2011, *MNRAS* 413, 669, *A tale of two GRB-SNE at a common redshift of  $z=0.54$*  (link [ADS](#));
- Pravec, P. and 25 co-authors incl. Vaduvescu, O., 2010, *Nature* 466, 1085 – *Formation of asteroid pairs by rotational fission* (link [ADS](#));
- Moreno, F. and 11-co-authors incl. Vaduvescu, O., 2010, *ApJ* 718L, 132 – *Water-ice driven activity on Main-Belt Comet P/2010 A2 (LINEAR)?* (link [ADS](#));
- Gilbert, A. Wiegert, P., Unda-Sanzana, E., Vaduvescu, O., 2009, *MNRAS* 401, 2399 – *Spectroscopic Observations of New Oort Cloud Comet 2006 VZ13 and Four Other Comets* (link [ADS](#));
- Birlan, M., and 9 co-authors incl. Vaduvescu, O., 2008 – *Photometric and astrometric analysis of a mutual event between the uranian satellites Miranda and Oberon*, *Astron. Narchr* 329, 567 (link [ADS](#));
- Popescu, P. et al., 1993 – *Bright Star Catalogue*, Romanian Academy Printing House, Bucharest.

Papers in Work (Principal Investigator):

- Vaduvescu, O., et al., 2014 - Present: *Star Forming Dwarfs in Hercules, Abell 779, 1367 and 1656*;
- Vaduvescu, O., et al., 2013 - Present: *Recovery of more than 200 one-opposition NEAs with the INT*;
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