

## CURRICULUM VITAE

Updated: 25 November 2017

# 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 Univ. of 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 POSITIONS:

- **2017 – Present – PhD Supervisor in Astrophysics**, [University of Craiova](#), Romania.
- **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](#).

**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;

**TEACHING POSITIONS:**

- **Sep 2017 – present – PhD Supervisor** – “*Properties of Dwarf Elliptical and Spheroidal Galaxies*”, student Viktoria Pinter, the University of Craiova, Romania;
- **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 PhD thesis** “*Visual Analysis Techniques of Space Multi-dimensional Data*”, student Denisa Copandean, advisor Prof. Dorian Gorgan, Technical University of Cluj-Napoca, Romania;
- **2015 – 2017 – Consultant 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;
- **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.

#### **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 CADK 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 CADK 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](#));
- 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:**

[283 ADS references](#)

[67 refereed publications](#)

[26 first author refereed papers](#)

1062 citations total

825 refereed citations of refereed papers

155 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 82 co-authors, 2017: *280 one-opposition near-Earth asteroids recovered by the EURONEAR with the Isaac Newton Telescope*, in press, A&A (journal [link](#));
- Vaduvescu, O. and 26 co-authors, 2017: *The EURONEAR Lightcurve Survey of Near Earth Asteroids*, Earth, Moon, Planets, 120, 41 (link [EMP](#));
- Vaduvescu, O. and 15 co-authors, 2017: *Data mining of NEAs in the Subaru Suprime-Cam archive*, Astron. Nachr., 338, 572 (link [ADS](#));
- Aznar, A., Predatu, M., Vaduvescu, O. and Oey, J., 2017: *EURONEAR – First Lightcurves and Physical Properties of Near Earth Asteroids*, Romanian Journal of Physics, Vol. 62, Nr. 7-8;
- 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.

- Valley, 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, 315 (link [ADS](#));
- Adams, J. H. and other 287 co-authors, 2015: *Ground-based tests of JEM-EUSO components at the Telescope Array site, "EUSO-TA"*, 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. Nachr 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: *Lightcurves of 35 Near Earth Asteroids observed in Tenerife 2015*;
- Popescu, M., Vaduvescu, O., et al: *Spectral properties of 85 Near Earth Asteroids observed with INT*;
- Vaduvescu, O., et al: *Star Forming Dwarfs in Hercules, Abell 779, 1367 and 1656*;

#### **MEETINGS, SEMINARS, OTHER REFERENCES:**

- Aznar, A., 2016: *Diez anos de contribucion a la investigacion de los NEAs*, Spanish Astronomía magazine, Oct 2016;
- Vaduvescu, O., 2016: *The EURONEAR Contribution to the European NEO Research*, ESA First European Asteroid Observers Meeting (proceedings [here](#));
- Tudor, V. and Vaduvescu, O., 2015: *A comparison of the photometric and fundamental planes of dwarf ellipticals*, poster The European week of Astronomy and Space Sciences (EWASS2015), Tenerife (link [KUONI](#));
- Vaduvescu, O., et al, 2014: *Around 1500 near-Earth-asteroid orbits improved via EURONEAR*, ACM 2014 conference, Helsinki, Finland (link [ADS](#));
- Vaduvescu, O., et al., 2014: *Physical properties of near-Earth asteroids are scrutinized via EURONEAR*, ACM 2014, Helsinki, Finland (link [ADS](#));
- Popescu, M., Vaduvescu, O., Char, F., Curelaru, L., Euronear Team, 2014: *Mega-precovery and data mining of near-Earth asteroids and other Solar System objects*, ACM 2014, Helsinki, Finland (link [ADS](#));
- Vaduvescu, O., Dominguez Palmero, L., Benn, C., 2014: *The ING Studentship, INT Support, and Research Programme*, ACM 2014 conference, Helsinki, Finland (link [ADS](#));
- Char, F., Vaduvescu, O., Popescu, M., 2013: *Exploring the solar system with Mega-Precovery data mining server: strengthening our database and functionalities*, poster BAAA Argentina, vol. 56, p. 411 (link [ADS](#));
- Vaduvescu, O., 2013: *EURONEAR*, oral communication, International Primitive body Exploration Working Group, May 29-31 2013, Nice, France (website [link](#));

- Vaduvescu, O., 2012: *My Successful EURONEAR Collaboration with Students and Amateur Astronomers*, La Palma, oral communication, IMC 2012 conference; (website [link](#));
- Vaduvescu, O. and 14 co-authors: *Data Mining the SuprimeCam Archive for Near Earth Asteroids*, poster contribution, Asteroids, Comets, Meteors 2012, Proceedings of the conference held May 16-20, 2012 in Niigata, Japan. LPI Contribution No. 1667, id.6235 (link [ADS](#));
- Moreno, F., and 10 co-authors incl. Vaduvescu, O., 2011: *Activity in main-belt asteroid P/2010 A2*, Highlights of Spanish Astrophysics VI, Proceedings of the IX Scientific Meeting of the Spanish Astronomical Society (SEA), held in Madrid, September 13 - 17, 2010, Eds.: M. R. Zapatero Osorio, J. Gorgas, J. Maíz Apellániz, J. R. Pardo, and A. Gil de Paz., p. 587-592 (link [ADS](#));
- Pravec, P.; and 39 co-authors incl. Vaduvescu, O., 2011: *Anisotropic distribution of orbit poles of binary asteroids*, EPSC-DPS Joint Meeting 2011, held 2-7 October 2011 in Nantes, France (link [ADS](#));
- Moreno, F. and 8 co-authors incl. Vaduvescu, O., 2011: *(596) Scheila in outburst: A probable collision event in the Main Asteroid Belt*, EPSC-DPS Joint Meeting 2011, 2-7 Oct 2011 in Nantes, France (link [ADS](#));
- Grigore, V., Minti, H. Vaduvescu, O., 2011: *Columna TV, Noi si Cerul* (4 shows), *Problems of the Modern Romanian Astronomy*: TELEROM (link [ADS](#) and [YOUTUBE](#) in Romanian);
- Vaduvescu, O., 2010: *Chairing the Workshop The Romanian Astronomy in the Present Context, the Diaspora Conference in Research and Superior Education in Romania*, Bucharest 21-25 Sep 2010 (website [link](#));
- Tudorica, A., et al., incl Vaduvescu, O., 2010: *EURONEAR - The first 200's NEAs observed*, Young Scientists' Conference on Astronomy and Space Physics, April 26 - May 1, 2010, Kyev, Ukraine;
- Scheeres, D. J., Pravec, P., Vokrouhlicky, D., Polishook, D., Harris, A. W., Galad, A., Vaduvescu, O., et al, 2010: *Asteroid Pairs Formed by Rotational Fission*, AAS, DDA meeting 41, 2.06, Bulletin of the American Astronomical Society, Vol. 41, p.926 ([ADS](#) link);
- Pravec, P., Vokrouhlicky, D., Polishook, D., Harris, A. W., Galad, A., Vaduvescu, O., et al, 2009: *Primary Rotations of Paired Asteroids*, AAS DPS Meeting 41, 56.06 ([ADS](#) link);
- Birlan, M., Vaduvescu, O., & EURONEAR Team, 2009: *EURONEAR – Discovery, recovery, and precovery of NEAs as network activities*, 1st IAA Planetary Defense Conference: Protecting Earth from Asteroids, Apr 27-30, Granada;
- Tudorica, A., Birlan, M., Vaduvescu, O., Toma, R., Sonka, A., Nedelcu, A., & the EURONEAR Team, 2008: *EURONEAR – The First 100 Observed NEAs*, AAS DPS Meeting, Oct 10-15, Ithaca ([ADS](#) link);
- Sonka, B., Vaduvescu, O. et al 2007: *New Astrometry for NEOs in the frame of EURONEAR*, AAS DPS Meeting 39, 51.07, Orlando, Oct 7 - 12, 2007 (abstract [ADS](#));
- Vaduvescu, O., Curelaru, L. 2007: *Mining NEAs and Asteroids in the CFHTLS*, CFHT Users' Meeting, Marseille, May 9 - 11, 2007 (abstract [CFHT](#));
- Colas, F., Birlan, M., Vaduvescu, O., Nedelcu, A., Sonka, A., 2006d: *EURONEAR – First Results at Pic du Midi*, AAS DPS Meeting 38, 58.05, Pasadena, Oct 8 - 13, 2006 (abstract [ADS](#));
- Vaduvescu, O., et al, 2006: *EURONEAR - An European Near Earth Asteroid Research Project*, XXVI-th GA IAU Prague, Aug 14 - 25, 2006, poster contribution (abstract [ADS](#));
- Vaduvescu, O., 2006: *Infrared Properties of Dwarf Galaxies*, ESO Santiago de Chile (Jul 17, 2006), and AURA (CTIO & Gemini South), La Serena, Chile (July 10, 2006);
- Vaduvescu, O. and McCall, L.M., 2005: IAU Colloquium 198, Near-field Cosmology with Dwarf Elliptical Galaxies, Les Diablerets, Switzerland, 14 - 18 March 2005 – *Dwarf Ellipticals on the Dwarf Irregular Fundamental Plane* (poster contribution, IAU 198 Proceedings, Cambridge Journals [Online](#));
- Vaduvescu, O., 2005: Séminaires "Temps & Espace" (IMCCE - SYRTE), Observatoire de Paris, 7 Mar 2005 – *Celestial Maps v.10* (abstract [online](#));
- Vaduvescu, O., Colas, F., Birlan, M., Nedelcu, A., Sonka, B., 2006: Journées Scientifique, IMCCE, Observatoire de Paris, 5-6 June 2006 – *Observing NEAs at Pic du Midi*;
- Vaduvescu, O., 2004: *Astrometry with Small Telescopes Meeting*, Bucharest, Romania – *Observing NEAs at York University Observatory*;
- McCall, M. L., et al. incl. Vaduvescu, O., 2004: *YES York Extinction Solver* (online at CADK [here](#));
- Vaduvescu, O., 2004: *1<sup>st</sup> Virtual Meeting on Amateur Astronomy*, Bellatrix Astronomical Observatory & UAI, Ceccano (FR) Italy – *Celestial Maps, a Charting Software for the Serious Astronomer* ([here](#));
- Blake, M., et al, 2003: *The Doings on-line*, in The Doings of the Department of Astronomy & Astrophysics, University of Toronto and The David Dunlap Observatory – *The DDO AGN Monitoring Program* ([here](#));
- Blake, M., Fingerhut, R., & Vaduvescu, O., 2003: in Cassiopeia, a publication of CASCA, 116 – *A Canadian Modest Aperture Telescope* ([here](#));
- Vaduvescu, O., 2003: Séminaires du LESIA, Observatoire de Paris, Meudon – *Infrared properties of star forming dwarf galaxies* ([here](#));



- Vaduvescu, O., & McCall, M. L., CASCA Meeting 2003: Univ. of Waterloo, ON Canada – *Strategies for Imaging Faint Extended Sources in the NIR* (poster);
- Vaduvescu, O., 1997: The V-th Workshop of Mutual Events and Astrometry of Planetary Satellites, Catania (oral contribution), abstract in Annales de Physiques – *Asteroid Appulses by Catalogue Stars. Predictions, Observations and Reductions*;
- Vaduvescu, O., 1996: COSPAR Colloquim 10, July 1996, p. 21-17, International Conference on Asteroids, Comets and Meteors (poster), *Asteroid Occultation Opportunities Observed in Bucharest*;
- Vaduvescu, O., & Birlan, M., 1994: The Second International School in Astronomy and Astrophysics, Rozhen National Observatory, Bulgaria, *The Astronomical Package Celestial Maps*;

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