

CURRICULUM VITAE

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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;
- Data mining, big data, surveys, software development, algorithms;
- Astronomy education, public outreach and astro-tourism;
- Astronomical observatories, site characterization, instrumentation, remote observing.

WORK EXPERIENCE:

- **2009 - 2023 - Staff Astronomer**, Isaac Newton Group of Telescopes (ING), La Palma, Canary Islands, Spain ([website](#)).
- **2007 - 2008 - Postdoctoral Fellow & Professor**, Institute for Astronomy, Universidad Catolica del Norte, Antofagasta, Chile (Comité Mixto ESO - Gobierno de Chile, [website](#)).
- **2006 - Postdoctoral Fellow**, Astrophysics and Cosmology Research Unit, University of Kwazulu-Natal, and South African Astronomical Observatory, Durban, South Africa ([website](#)).
- **2000 - 2005 - Research Assistant**, Department of Physics and Astronomy, York University, Toronto, Canada ([website](#)).
- **1991 - 1997 - Research Assistant**, Astronomical Institute of the Romanian Academy, Bucharest, Romania ([website](#)).

EDUCATION:

- **2000 - 2005 - PhD (Physics and Astronomy)**, York University, Toronto, Canada. Thesis: Infrared Properties of Star Forming Dwarf Galaxies. Advisor: Prof. 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. 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. Ion Cojocaru. My scanned [thesis](#) (in Romanian).

ASSOCIATE POSITIONS:

- **2017 - Present - Research Associate, PhD supervisor**, [University of Craiova](#), Romania.
- **2010 - 2023 - Research Associate**, [IAC](#), Tenerife, Canary Islands, Spain.
- **2005 - 2016 - Research Associate**, [IMCCE](#), Observatoire de Paris, France.
- **2000 - 2011 - Research Associate**, [Astronomical Institute of the Romanian Academy](#).

OBSERVING AND DATA REDUCTION EXPERIENCE:

- **Subaru SuprimeCam** - Data mining of NEAs (1999-2012);
- **ESO/VLT HAWK** - NIR imaging of dwarf galaxies in Fornax and Hydra clusters (2008-2009, 6hr service);
- **Gemini North GMOS** - Spectroscopy of BCDs in Virgo (12h 2003, service);
- **Gemini South GMOS** - Spectroscopy of star forming galaxies in clusters: Fornax (15h 2007), Hydra (20h 2008) and Antlia (15h 2010), service;
- **WHT ISIS, ACAM, LIRIS, PFIP, WEAVE** - Observing Support and Service (~600n 2009-2023);
- **WHT LIRIS** - Dwarf elliptical galaxies (4n 2018-2020, related to supervised PhD);
- **VISTA** - Archival imaging (~100 dwarf elliptical galaxies related to supervised PhD);
- **Blanco ISPI** - NIR imaging of dwarf galaxies (10n 2006 - 2009);
- **Blanco Mosaic II** - Recovery of Near Earth Asteroids (2n in 2011);
- **Blanco DECam** - Data mining & recovery of ~100 virtual impactor asteroids (2014-2019);
- **CFHT CFHTIR** - NIR imaging of dwarf galaxies (6n 2002, 2004);
- **CFHT Mega-Cam** - CFHT Legacy Survey data mining of NEAs (2008 - 2009);
- **CFHT WIRCAM** - Archival imaging (~50 dwarf elliptical galaxies related to supervised PhD);
- **NTT SOFI** - NIR imaging of dwarf galaxies in the Local Volume (5n 2006, 2008);
- **TNG NICS** - NIR imaging of dwarf galaxies in nearby clusters (4n 2010);
- **INT** - Follow-up and discovery surveys of NEAs and MBAs (80n 2009-2024);
- **INT** - Light-curves of NEAs (30n 2013-2019);
- **INT** - H-alpha imaging of galaxy clusters (10n, 2009-2010)
- **INT** - Student training, discretionary tasks, other collaborations (100n 2012-2023);
- **ESO/MPG WFI** - Follow-up and discovery of NEAs and MBAs (3n 2008);
- **OAN-SPM 2.1m** - NIR imaging of BCDs in Virgo and dIs in Local Volume (21n 2001-2004);
- **David Dunlap 1.9m**, University of Toronto - Spectroscopy of AGNs (5n, 2002 & 2003);
- **KASI 1.6m** - Discovery surveys of NEAs (8n 2023 & 2024);
- **Mercator 1.2m** - Light-curves of NEAs (20n, 2014-2015);
- **Haute Provence 1.2m** - Follow up of NEAs & PHAs (6n 2007; 5n 2010);
- **Pic du Midi 1m** - Follow up of NEAs & PHAs (9n 2006);
- **ESO 1m La Silla** - Inspection of the ESO1m telescope and observations of NEAs (3n 2007);
- **CTIO 1m** - Follow-up and photometry of binary NEAs and MBAs (10n 2008);
- **OCIW Swope 1m** - Follow-up and photometry of NEAs (15n 2008, 2009);
- **ESA-OGS 1m**, Tenerife - Light-curves of NEAs (PI of 30n, 2015A);
- **IAC80 0.8m**, Tenerife - Light-curves of NEAs (PI of 30n, 2015A);
- **T80S**, Cerro Tololo - Discovery survey of NEAs (co-I of 20h, 2023A);
- **Cerro Armazones 0.8m** - Inspection of the telescope, observations of NEAs (3n 2007);
- **York University 0.6m**, Toronto - Astrometry of Near Earth Asteroids (10n 2002-2004);
- **York University 0.6m**, Toronto - Graduate observing projects: H photometry of the planetary nebula NGC 2392; Photometry of the open cluster NGC 663 (2000-2001);
- **Cerro Armazones 0.4m** - Cataclismic variable stars (7n 2007);
- **Romanian Astronomical Institute 2x0.4m**, Bucharest - Astrometry & Photometry of planetary satellites, asteroids, and comets (50n 1993 - 1997);
- **Romanian Astronomical Institute 0.2m** Meridian Refractor, Bucharest - Star Catalogs;

TEACHING POSITIONS:

- **Sep 2023 - present - PhD Supervisor** - "*Properties of Dwarf Spheroidal Galaxies*", student Dr. Ruxandra Toma, University of Craiova & Astronomical Institute of Romanian Academy;
- **Nov 2021 - present - PhD Supervisor (co-tutele)** - "*Physical Properties of Star-Forming Galaxies in Clusters from Wide-Field Surveys*", student Llanos Martinez (former ING student), University of Granada, Spain, co-tutele with Dr. Jorge Iglesias Paramo;
- **Sep 2020 - present - PhD Supervisor** - "*Physical Properties of Near Earth Asteroids*", student Radu Gherase, University of Craiova, Romania, collaboration with Dr. Marcel Popescu;
- **Sep 2018 - Sep 2020 - PhD Supervisor (co-tutele)** - "*Asteroid Detection via Synthetic Tracking*", student Roxana Sichitiu, University of West Timisoara and University of Craiova, Romania, co-tutele Assoc. Prof. Marc Frincu;

- **Sep 2017 - Sep 2023 - PhD Supervisor** - "*Properties of Dwarf Elliptical Galaxies*", student Viktoria Pinter, University of Craiova, Romania;
- **2020 - 2024 - Consultant PhD thesis** "*Novel AI models for improving asteroid and galaxy classification*", student Raul Urechiatu, PhD supervisor Prof. Dr. Marc Frincu, West University of Timisoara, Romania;
- **2015 - 2022 - Consultant PhD thesis** "*Visual Analysis Techniques of Space Multi-Dimensional Data*", student Denisa Copandean, PhD supervisor 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, PhD supervisor Prof. Radu Constantinescu, University of Craiova, Romania;
- **2013 - 2020 - Studentship Program Manager** of the Isaac Newton Group, La Palma, Canary, in charge of selection, training, management and scientific advising for 6-8 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:

- **2020 - Present - Co-founder**, [AstroFarm La Palma, S.L.](#) (part-time), La Palma;
- **2008 - Present - Astronomer**, [Astro Travels](#) (part-time small business), La Palma;
- **1998 - 2001 - Software Developer**, [Financial Models Company](#), Toronto, Canada;
- **1997 - 1998 - Software Developer**, International Programmers Guild, Canada;
- **1998 - 1999 - Project Leader**, [EuRo Eclipse 99](#) (part-time small business), Canada.

EXPERIENCE IN COMPUTERS:

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

Astronomical Software Development:

- [ParaSQL](#) - Data-parallel detection of Solar System objects and space debris - Project funded by Project funded by the Executive Agency for Higher Education, Research, Development and Innovation (UEFISCDI, 2022-2024, 120 KE), involving a team of professional and amateur astronomers and software developers from the Astronomical Institute of the Romanian Academy (PI: Dr. Marcel Popescu) and the University of Craiova, Romania. Presented in the following conferences and papers:
 - o Stanescu, M. et al, 2025: Detecting near-Earth objects using real-time synthetic tracking surveys, Europlanet EPSC-DPS Meeting, Helsinki, 7-12 Sep 2025;
 - o Stanescu, M. et al, 2023: Real-time synthetic tracking for NEA discovery, IAA Planetary Defense Conference, Vienna, 3-7 Apr 2023 (PDF [link](#));
 - o Stanescu, M. et al, 2023: Blink and you miss it: Real-time synthetic tracking for near-Earth object surveys, Asteroids, Meteors, Comets Conference, Flagstaff, 18-23 Jun 2023 (PDF [link](#));
 - o Stanescu, M. et al, 2005: Data-parallel methods for fast and deep detection of asteroids on the Umbrella platform: near real-time Synthetic Tracking algorithm for near-Earth objects, submitted (Feb 2025);

- o Vaduvescu, O. et al, 2025: Application of the ParaSOL synthetic tracking suite to a few EURONEAR NEA mini-surveys observed with the INT, KASI and T80S telescopes, submitted (Feb 2025, PDF [link](#));
- [CERES](#) - Machine learning module to improve automated detection of asteroids - Project funded by the Executive Agency for Higher Education, Research, Development and Innovation (UEFISCDI, 2020-2022, 120 KE), involving a team of professors from Technical University of Cluj-Napoca (PI: Conf. Dr. Victor Bacu), the University of Craiova, and the West University of Timisoara, Romania;
- [NEARBY](#) - Cloud platform for automated asteroid detection in astronomical surveys - Project funded by the Romanian Space Agency (ROSA - ESA-SSA, 2017-2019, 180 KE), involving a team of professors and one PhD student from Technical University of Cluj-Napoca (PI: Prof. Dr. Dorian Gorgan) and University of Craiova, Romania. Presented in the following conferences and papers:
 - o Vaduvescu, O, Gorgan, D, Copandean, D, et al., 2021: Ready for EURONEAR NEA surveys using the NEARBY moving source detection platform, *New Astronomy*, 8801600V (link [website](#));
 - o Gorgan, D. and Vaduvescu, O, 2019: *The NEARBY Platform for Automatic Asteroid Detection and EURONEAR Surveys*, ESA NEO and Debris Detection Conference - Exploiting Synergies, 22-24 Jan 2019, Darmstadt, Germany ([oral presentation](#) and paper link [arXiv](#));
 - o Copandean, D., Nandra, C., Gorgan, D. & Vaduvescu, O., 2018: *Asteroids Detection Technique: Classic Blink An Automated Approach*, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), May 24-26 2018, Cluj-Napoca, Romania (link [arXiv](#));
 - o Copandean, D., Vaduvescu, O., Gorgan, D., 2017: *Automated Prototype for Asteroids Detection*, 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP), September 7 - 9, 2017, Cluj-Napoca, Romania (link [arXiv](#));
 - o Stefanut, T, Bacu, V., Nandra, C., Balasz, D., Gorgan, D. and Vaduvescu, O., 2018: *NEARBY Platform: Algorithm for Automated Asteroids Detection in Astronomical Images*, IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), September 6 - 8, 2018, Cluj-Napoca, Romania (link [arXiv](#));
 - o Bacu, V., Sabou, A., Stefanut, T., Gorgan D. and Vaduvescu, O., 2018: *NEARBY Platform for Detecting Asteroids in Astronomical Images Using Cloud-based Containerized Applications*, IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), September 6 - 8, 2018, Cluj-Napoca, Romania (link [arXiv](#));
- Coding about 70 astronomy software (more than 50,000 coding lines) in Pascal, Delphi, C/C++, PHP, IRAF, Python, FORTRAN, under MSDOS, Windows, Linux and UNIX. An old list with brief description is available [online](#); other online EURONEAR tools are available [here](#).
- [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:

- Celestial Maps v.3.1 was contracted by *La Maison de l'Astronomie*, Paris, *Astro News* 37, 1994 ([scan](#));
- 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:
 - DELL, 2 processors Intel Six Core Xeon, 24 GB, HDDs 2x3 TB, running Linux (2018-present, Craiova, Romania - EURONEAR mirror server <https://s141.central.ucv.ro>)
 - HP ProLiant micro serverGen8, 2 cores, 120 GB SSD, HDDs 2x4 TB, running Linux (2016-present, Brasov, Romania - EURONEAR main server www.euronear.org)
 - 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:

- 2019 - 2021 - Science Referee for the Spanish Time Allocation Committee (IAC telescopes of Canarias, review about 100 proposals during 4 semesters);
- 2018 - 2019 - Science Referee for the Subaru Telescope Time Allocation Committee (review 14 Solar System proposals);
- 2018 - Science Referee for the Chilean FONDECYT Funding Allocation Committee (review one proposal);
- 2019 - present - Offering stargazing [experiences](#) to La Palma tourists (part time);
- 2018 - Award The Romanian Occident, *Gala Premiilor de Excelenta*, Ed. III-a, 2018, *Anul Centenar al Marii Uniri, Premiu de excelenta pentru realizari profesionale si promovarea imaginii Romaniei* (association [article](#) in Romanian);
- 2015 - Present: Member of the International Astronomical Union ([IAU](#), Spain);
- 2014 - 2024: Discovery of the first 15+7 Near Earth Asteroids from La Palma (ING [news](#)) and Chile;
- 2012 - 2015: Manager of the Isaac Newton Telescope (INT 2.5m);
- 2013 - 2014: Science collaborator of MSc graduate Vlad Tudor (ING and Leicester University UK);
- 2009 - 2023: Instrument specialist [WFC](#) mosaic camera (WFC, INT PF)
- 2009 - 2018: Instrument ING contact specialist [PAUCam](#) mosaic camera (WHT PF);
- 2010 - 2014: Instrument specialist [PFIP](#) camera (WHT PF, in two versions);
- 2021: Instrument specialist [PF-QHY](#) CMOS camera (WHT PF)
- 2010 - 2011: Instrument specialist [IDS](#) long-slit double arm spectrograph (IDS, INT Cass);
- 2022 - Member of the board of the PhD thesis defence of Denisa Copandean, Technical University of Cluj-Napoca, Romania (thesis director Prof. Dr. Dorian Gorgan, UTCN Romania);
- 2012 - Member of the board of the MSc thesis defence of Angie Barr, University Catolica del Norte, Chile (thesis director Prof. Rolf Chini, Buchum University, Germany);
- 2011 - 2012: 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 - 2023: Via [Astro Travels](#) organising 20 expeditions and conferences in La Palma and Canary islands for a total of 500+ amateur astronomers, professors, public outreach people, professional astronomers and astro-tourists, including 200 Romanian amateurs (10 expeditions), 100 Finish high-school students (3 expeditions), the IMC 2012 conference (120 people) and 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 hundreds of asteroids (including 15+7 NEAs) based on observations with INT 2.5m in La Palma, KASI 1.6m and Blanco 4m in Cerro Tololo, ESO/MPG 2.2m in La Silla; and Swope 1m in Las Campanas (teamwork including about 20 students and amateur astronomers);
- 2011-2021 - Proposing 12 Romanian names of astronomers and amateurs given to main belt asteroids discovered by EURONEAR with the ESO/MPG telescope (2008) and ING/INT telescope (2009-2023); (263516) [Alexescu](#), (257005) [ArpadPal](#), (320790) [Anestin](#), (330634) [Boico](#), (346261) [Alexandrescu](#), (450931) [Coculescu](#), (358894) [Demetrescu](#), (365761) [Popovici](#), (369088) [Marcus](#), (557045) [Nadolschi](#), (572217) [Dramba](#) and (555152) [Oproiu](#).
- 2007 - present: Scientific advisor (volunteer, collaborations conducted mostly via internet) of about 20 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 SARM (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:

[357 ADS references](#)

[91 refereed publications](#)

[33 first author refereed papers](#)

2280 citations total

2168 citations of refereed papers

300 citations of first author refereed papers

Dwarf Galaxies (Principal Investigator):

- Pinter, V. & Vaduvescu, O., 2023: *Deep K-band surface brightness photometry of dE galaxies. I. Local Volume and Virgo cluster*, A&A 675, 90 (link [ADS](#));
- Vaduvescu, O., Petropoulou, V., Reverte, D., Pinter, V., 2018: *Studying star forming dwarf galaxies in Abell 779, Abell 1367, Coma, and Hercules clusters*, A&A 616, 165 (link [ADS](#));
- 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 other 21 co-authors, 2025: *Few EURONEAR mini-surveys observed with the INT, KASI and T80S telescopes during the ParaSOL synthetic tracking project*, New Astronomy (Oct 2025, PDF [link](#));
- Stanescu, and other 5 co-authors, 2025: *Data-parallel methods for fast and deep detection of asteroids on the Umbrella platform: near real-time Synthetic Tracking algorithm for near-Earth objects*, submitted (Feb 2025);
- Gherase, R. and other 10 co-authors, 2024: *The physical properties of two potential targets for space missions: (155140) 2005 UD and (612267) 2001 SG286*, Monthly Notices of the Royal Astronomical Society ([website](#));
- Popescu, M. and other 17 co-authors, 2023: *Discovery and physical characterization as the first response to a potential asteroid collision: The case of 2023 DZ2*, A&A July 2023 ([website](#));
- Urechiatu, R. and other 3 co-authors, 2023: *Ensemble Machine Learning Model for Automated Asteroid Detection*, RoAJ 33, 111U ([website](#));
- Vaduvescu, O. and other 32 co-authors, 2022: *The EURONEAR Lightcurve Survey of Near Earth Asteroids 2017-2020*, EM&P 126, 6 ([website](#));
- Vaduvescu, O. and other 31 co-authors, 2021: *Ready for EURONEAR NEA surveys using the NEARBY moving source detection platform*, New Astronomy, Vol. 88, 101600 ([website](#));
- Vaduvescu, O., and other 5 co-authors, 2021: *The EURONEAR Lightcurve Survey of Near Earth Asteroids – Teide Observatory, Tenerife, 2015*, Earth, Moon and Planets, 125, 2, 3 ([website](#));
- Vaduvescu, O., Curelaru, L., Popescu, M. Danila, B. & Ciobanu, D., 2020: *Dozens of Virtual Impactor Orbits Eliminated by the EURONEAR VIMP DECam Datamining Project*, Astronomy and Astrophysics, 642, A35 (link [ADS](#));
- Vaduvescu, O., Curelaru, L. and Popescu, M., 2020: *Mega-Archive and the EURONEAR Tools for Datamining World Astronomical Images*, Astronomy and Computing, 30, 100356 ([web](#));
- Vaduvescu, O. and 82 co-authors, 2018: *280 one-opposition near-Earth asteroids recovered by the EURONEAR with the Isaac Newton Telescope*, A&A 609, 105 (link [ADS](#));
- Vaduvescu, O. & Aznar Macias, A., 2018: *Lightcurve of NEA 1993RA*, Minor Planet Bull. 45, 96 ([ADS](#));
- Vaduvescu, O. and 26 co-authors, 2017: *The EURONEAR Lightcurve Survey of Near Earth Asteroids*, Earth, Moon, Planets, 120, 41 (link [ADS](#));
- 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 (link [arXiv](#));
- 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](#));

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