

# Curriculum Vitae

## PERSONAL INFORMATION

Name and surname **Dijana DOMINIS PRESTER**  
 Academic title dr. sc. (Dr. rer. nat.)  
 Year and institution of PhD obtained 2006 (2<sup>ND</sup> NOVEMBER), University of Potsdam, Germany  
 Address Department of Physics, University of Rijeka, Ul. Radmile Matejčić 2,  
 51000 Rijeka  
 Phone +385 51 584604  
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 E-mail [dijana@phy.uniri.hr](mailto:dijana@phy.uniri.hr)  
 Citizenship Croatian  
 Date and place of birth 31 December 1970, Rijeka, Croatia

## WORK EXPERIENCE<sup>1</sup> (CHRONOLOGICALLY\*)

Date (from – until) 2015-NOW  
 Institution Department of Physics, University of Rijeka, Croatia  
 Position Associate professor  
 Work field Research (astrophysics), lecturing physics

Date (from – until) 2009-2014  
 Institution Department of Physics, University of Rijeka, Croatia  
 Position Assistant professor  
 Work field Research (astrophysics), lecturing physics

Date (from – until) 2007-2009  
 Institution Department of Physics, University of Rijeka, Croatia  
 Position Postdoctoral university assistant  
 Work field Research (astrophysics), lecturing physics

Date (from – until) 2005-2006  
 Institution Astrophysikalisches Institut Potsdam, Germany  
 Position PhD student  
 Work field Astrophysics

Date (from – until) 2002-2005  
 Institution Institute for Physics, University of Potsdam, Germany  
 Position Assistant, PhD student  
 Work field Physics – astrophysics

Date (from – until) 1997-2002  
 Institution Faculty of Geodesy, University of Zagreb  
 Position Teaching assistant  
 Work field Physics – astrophysics

<sup>1</sup> <sup>2,3</sup> Please add rows to enter all required information

\* all information in the document should be entered chronologically – from the most recent to the oldest

Date (from – until) 1996 -1997  
 Institution Faculty of Electrical Engineering and Computing, University of Zagreb  
 Position Teaching assistant  
 Work field Physics

## EDUCATION<sup>2</sup>

(CHRONOLOGICALLY)

Date 2002-2006  
 Place Potsdam, Germany  
 Institution Faculty of Science and Mathematics, University of Potsdam  
 Title of qualification PhD in astrophysics (Dr. rer. nat.)  
 awarded Thesis title: "The role of binary stars in searches for extrasolar planets by microlensing and astrometry"

Date 1997-2001  
 Place Zagreb, Croatia  
 Institution Faculty of Science and Mathematics, University of Zagreb  
 Title of qualification Master of science in Physics  
 awarded Thesis title: "Global optimization using genetic algorithm and a model of the interactive stellar binary system V365 Sgr"

Date 1989-1996  
 Place Zagreb, Croatia  
 Institution Faculty of Science and Mathematics, University of Zagreb  
 Title of qualification Dipl. Ing. of physics  
 awarded Thesis title: "Merging galaxies and  $u_z$ ,  $v_z$ ,  $b_z$ ,  $y_z$  photometric system"

## TRAINING

(CHRONOLOGICALLY)

Year 2000-2001 (10 months)  
 Place Munich, Germany  
 Institution Universitaets Sternwarte Muenchen (Observatory of the University in Munich),  
 DAAD scholarship  
 Subject and skills covered Stellar astrophysics (modeling non-LTE spectra)

Year 1992/93, 1995,2000 (9 months in total)  
 Place Vienna, Austria  
 Institution Institut fuer Astronomie der Universitaet Wien (Institut for astronomy of the University in Vienna), ÖAD Scholarship  
 Subject and skills covered Extragalactic astrophysics (photometry, starburst and merging galaxies, galaxy clusters)

Year 2009, 2010, 2012, 2013 (13 weeks)  
 Place La Palma, Spain  
 Institution MAGIC telescope, ORM observatory  
 Subject and skills covered Observing with MAGIC I and MAGIC II Cherenkov telescopes

Year 2009 and 2013 (4 weeks)  
 Place La Palma, Spain  
 Institution MAGIC telescope, ORM observatory  
 Subject and skills covered Commissioning MAGIC Cherenkov telescopes

Year 2004 (2 weeks in August)  
 Place La Silla, Chile  
 Institution Danish 1.54m telescope, La Silla Observatory  
 Subject and skills covered Photometric observations of microlensing light curves for PLANET collaboration at 1.5m optical telescope

Year 2003 (2 weeks in June)  
 Place Hobart, Australia  
 Institution Mt. Canopus Telescope, University of Tasmania  
 Subject and skills covered Photometric observations of microlensing light curves for PLANET collaboration at 1.0m optical telescope

Year 2011 (1 week in February)  
 Place Zeuthen, Germany  
 Institution DESY  
 Subject and skills covered MAGIC software school

Year 2009 (1 week in April)  
 Place La Palma, Spain  
 Institution IAC, CALP, ORM observatory  
 Subject and skills covered "MAGIC II expert school"

Year 2005 (1 week in July)  
 Place Caltech, Pasadena, U.S.A.  
 Institution Michelson Science Center, California Institute of Technology  
 Subject and skills covered "2005 Michelson Summer Workshop: Discovering New Worlds Through Astrometry"

Year 2003 (1 week in April)  
 Place Saas-Fee, Switzerland  
 Institution 33rd Advanced Saas-Fee Course of the Swiss Society for Astrophysics and Astronomy  
 Subject and skills covered Gravitational Lensing

Year 2003 (1 week in January)  
 Place Aussois, France  
 Institution Winter School in Astrophysics  
 Subject and skills covered 'Gravitational Lensing: a unique tool for cosmology', Aussois, France

Year 2002 (2 weeks)  
 Place Puerto de la Cruz, Tenerife, Spain  
 Institution XIV Canary Islands Winter School in Astrophysics  
 Subject and skills covered "Dark Matter and Dark Energy in the Universe"

Year 1999 (1 month)  
 Place Castelgandolfo, Italy  
 Institution Vatican observatory summer school (VOSS)  
 Subject and skills covered "Observational and Theoretical Understanding of Single Stars and Close Binary Systems"

**LANGUAGES**

**MOTHER TONGUE** Croatian  
**ENGLISH LANGUAGE**  
 Speaking Fluent  
 Writing proficient  
 Reading proficient

**OTHER FOREIGN LANGUAGES<sup>3</sup>**

Language **German**  
 Speaking Fluent  
 Writing proficient  
 Reading proficient

Language **Italian**  
 Speaking Basic  
 Writing Basic  
 Reading Basic

**RESEARCH AND OTHER PROJECTS**

(LEADER AND ASSOCIATES; FUNDING SOURCE)

Project title Optimizing the Cherenkov Telescope Array (CTA) for efficient observations of AGN  
 Role in the project Principal investigator (Croatian side)  
 Project type Bilateral project (German DAAD and Croatian Ministry of Science and Education); PI of the German side: Gernot Maier, DESY Zeuthen  
 Duration 2017-now

Project title Hunt for the time delay in very high energy gamma rays from active galactic nuclei (AGN)  
 Role in the project Principal investigator (Croatian side)  
 Project type Bilateral project (German DAAD and Croatian Ministry of Science, Education and Sports); PI of the German side: Robert Wagner, MPI Munich  
 Duration 2010

Project title Studying the structure of the Universe using optical and Cherenkov telescopes  
 Role in the project Principal investigator  
 Project type University of Rijeka Project, funded by Croatian Ministry of Science and Education  
 Duration 2013 - now

Project title Participation of the University of Rijeka in international astroparticle experiments  
 Role in the project Principal investigator  
 Project type University of Rijeka grant  
 Duration 2014 – 2015

- 2017-now: "Very high energy gama astronomy with MAGIC and CTA", Croatian national foundation (PI: Nikola Godinović)
- 2012-2015: "Very high energy gama astronomy with MAGIC telescopes", Croatian national foundation (PI: Nikola Godinović)
- 2010–2011: Host (UNIRI) of a National Science Foundation project GOST "Astroparticle physics in Croatia" (PI: Daniel Ferenc")
- 2007-2013: "Circumstellar matter", Croatian national scientific project (PI: Dubravka Kotnik-Karuza)
- 1997-2002: "Stars and stellar systems: Evolutionary aspects", Croatian national scientific project (PI: Kresimir Pavlovski)

**TEACHING**

(UNDERGRADUATE, GRADUATE , POSTGRADUATE STUDY PROGRAMMES)

**University of Rijeka, Croatia** (Lecturing in Croatian):

"Observational astrophysics", Lectures and seminar for master students of physics, 2015-now

"Modern physics 2", Lectures and seminar for students of physics, 2<sup>nd</sup> year, 2012-now"Physics 4" (Atomic, molecular, nuclear and particle physics), Lectures for students of physics, 2<sup>nd</sup> year, 2007-2011"Computational physics", Lectures and exercises for students of physics, 3<sup>rd</sup> year, 2007-now

"Basics of physics 2" (Electromagnetism and optics), Lectures for students of computing, 2008/09-2011/12

"Methodology of presenting scientific work", Seminar for students of physics of 3<sup>rd</sup> year, 2009**University of Potsdam, Germany** (in German):"Grundpraktikum in Physik", Laboratory exercise for students of 1<sup>st</sup> year, 2004/05**University of Zagreb, Croatia** (in Croatian):" Astrophysics II – Galaxies", exercise for students of physics/astrophysics, 4<sup>th</sup> year, 1996-2002"Seminar in astrophysics I and II", exercise for students of physics/astrophysics, 3<sup>rd</sup> year, 1997-2002"Laboratory exercise in astrophysics", exercise for students of physics/astrophysics, 4<sup>th</sup> year, 1997-2002"Elementary physics I, II and III", exercise for students of electrotechnics, 1<sup>st</sup> - 3<sup>rd</sup> year, 1996-1997"Laboratory exercise in physics", exercise for students of electrotechnics, 1<sup>st</sup> year, 1996-1997**VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS**

( ONLY VISITS LONGER THAN 3 MONTHS )

- 4 years: PhD studies and doctoral thesis at the University of Potsdam, Germany, 2002-2006
- 9 months at University of Vienna, Institute for astronomy, Austria, multiple visits (AOED fellowship), 1993, 1995, 2000
- 10 months at the Universitaets-Sternwarte Munich, Germany (DAAD fellowship) 2000-2001
- 3 months at the Institute for Cosmic Ray Research, University of Tokyo, Japan, 2015

**MENTORSHIP**

( SUPERVISION OF STUDENTS )

*PhD thesis:*

- Tomislav Terzić: Characterization of very high energy gamma-radiation from active galactic nuclei observed by the MAGIC telescopes, PhD thesis, University of Zagreb, defended 2015

*Undergraduate (Master, Bachelor and Diploma students at the University of Rijeka)*

1. Marlena Tolo: Undetected AGN observed by the MAGIC telescopes, Master thesis, 2017
2. Fran Bartolić: Planets orbiting evolving binary stars, Master thesis, 2017
3. Marija Bervida: Master thesis, The atmosphere as an important part of the detector in gamma-astronomy, 2015
4. Jelena-Kristina Željeznjak: Sources emitting gamma-rays observed in the field of view of the MAGIC telescopes, Master thesis, 2015
5. Danijela Birko, Applications of microlensing method in elementary and high school education, Master thesis, 2011
6. Petar Jelača, Searching for extrasolar planets using gravitational microlensing: Comparison of simulated and observed lightcurves, Diploma thesis, 2010
7. David Rajlić, Use of photometric filters for breaking the binary lens - binary source degeneracy in microlensing, Diploma thesis, 2010
8. Tea Mužić, Magnetoencefalografija i transkranijalna magnetska stimulacija, Bachelor thesis, 2013
9. Lovro Pavletić, Studying extrasolar planets using transit method, Bachelor thesis, 2013
10. Marija Bervida, Istraživanje svemira u različitim područjima elektromagnetskog spektra, Bachelor thesis, 2012
11. Danijela Birko, Extrasolar planets, Bachelor thesis, 2009

**ORGANIZATIONAL SKILLS AND COMPETENCES**

(CHRONOLOGICALLY; ORGANIZATION OF HOME AND INTERNATIONAL SCIENCE EVENTS Ž

**Duties in international scientific collaborations:**

- Operations and Safety Coordinator of the MAGIC Collaboration: September 2017 - now
- Deputy Operations and Safety Coordinator of the MAGIC Collaboration: April/August 2017
- MAGIC Time Allocation Committee, member for Cycle 13, 2017
- Observation Scheduler for the MAGIC Telescopes 2013-2016
- Deputy Observation Scheduler for the MAGIC telescopes 2012-2013
- Homebase Coordinator (main observations coordinator) of the PLANET telescope network 2010-2014

**Other organizational activities and duties:**

- Head of Division of Theoretical Physics and Astrophysics (University of Rijeka – Department of physics), March 2016 - now
- President of the organizing committee; Physics school for high school students and of the Seminar for physics teachers, University of Rijeka, Croatia, 2012 and 2013
- "NOVICOSMO 2009", Rabac, Croatia, 2009, International summer school in astrophysics, member of the Organising committee
- "6<sup>th</sup> meeting of the Croatian physical society", Primosten, Croatia, 2009, member of the Organising committee
- organizing seminars at the University of Rijeka 2008-2014, Department of Physics
- President of the Union of students of physics and mathematics, University of Zagreb, 1994/1995

**COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS**

(CHRONOLOGICALLY; HOME AND INTERNATIONAL)

- Space Programme Committee for Horizon 2020 EU Projects: member, 2017-now
- European Science Foundation: member of the Review Panel 2011-2014
- MAGIC Collaboration Executive Board, 2017 - now
- Member of the LST-CTA Collaboration Steering Committee 2015 - now
- Council for Internationalization and Projects of the University of Rijeka, representative of the Department of Physics, 2017-now
- Council of the PhD Physics Programme of the University of Rijeka (member), 2017-now
- Coordinator of the Master study Programme of Astrophysics and Particle Physics, University of Rijeka, academic years 2015/16 and 2016/17
- Committee for evaluation of doctoral study programmes, University of Rijeka, 2011-2015

- Coordinator for mobility and international collaboration at the Physics department at the University of Rijeka 2013-now
- ERASMUS coordinator for the Physics department at the University of Rijeka 2009-2013
- Member of the National Committee for Astronomy Competitions for high school students (1996,1997,2009,2010)
- Deputy coordinator for the group "Women in physics" of the Croatian physics society
- Vice president of the Croatian astronomical society 2010-2014

#### MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

(CHRONOLOGICALLY; HOME AND INTERNATIONAL ORGANIZATIONS AND BODIES)

##### Professional societies:

- International astronomical union (IAU)
- European astronomical union (EAS)
- Croatian astronomical society (HAD)
- Mathematical and physical society of Rijeka (DMF)
- Croatian physical society (HFD)

##### International scientific collaborations:

- The MAGIC Collaboration (Major Atmospheric Gamma Imaging Cherenkov telescopes), 2008-now
- The PLANET Collaboration (Probing Lensing Anomalies NETwork), 2003-2016
- The CTA Consortium (Cherenkov Telescope Array), 2009-now
- The LST (Large Size Telescope) Collaboration within the CTA Consortium, 2015-now

#### PAPERS

##### NASA/ADS database:

[http://adsabs.harvard.edu/cgi-bin/nph-abs\\_connect?db\\_key=AST&db\\_key=PRE&qform=AST&arxiv\\_sel=astro-ph&arxiv\\_sel=cond-mat&arxiv\\_sel=cs&arxiv\\_sel=gr-qc&arxiv\\_sel=hep-ex&arxiv\\_sel=hep-lat&arxiv\\_sel=hep-ph&arxiv\\_sel=hep-th&arxiv\\_sel=math&arxiv\\_sel=math-ph&arxiv\\_sel=nl&arxiv\\_sel=nucl-ex&arxiv\\_sel=nucl-th&arxiv\\_sel=physics&arxiv\\_sel=quant-ph&arxiv\\_sel=q-bio&sim\\_query=YES&ned\\_query=YES&adsobj\\_query=YES&aut\\_logic=OR&obj\\_logic=OR&author=dominis+prester%2Cd.%0D%0Adominis%2Cd.%0D%0Adominis-prester%2Cd.&object=&start\\_mon=&start\\_year=&end\\_mon=&end\\_year=&ttitle\\_logic=OR&ttitle=&txt\\_logic=OR&text=&nr\\_to\\_return=200&start\\_nr=1&journal\\_pick=ALL&ref\\_stems=&data\\_and=ALL&group\\_and=ALL&start\\_entry\\_day=&start\\_entry\\_mon=&start\\_entry\\_year=&end\\_entry\\_day=&end\\_entry\\_mon=&end\\_entry\\_year=&min\\_score=&sort=SCORE&data\\_type=SHORT&aut\\_syn=YES&ttitle\\_syn=YES&txt\\_syn=YES&aut\\_wt=1.0&obj\\_wt=1.0&ttitle\\_wt=0.3&txt\\_wt=3.0&aut\\_wgt=YES&obj\\_wgt=YES&ttitle\\_wgt=YES&txt\\_wgt=YES&ttitle\\_sco=YES&txt\\_sco=YES&version=1](http://adsabs.harvard.edu/cgi-bin/nph-abs_connect?db_key=AST&db_key=PRE&qform=AST&arxiv_sel=astro-ph&arxiv_sel=cond-mat&arxiv_sel=cs&arxiv_sel=gr-qc&arxiv_sel=hep-ex&arxiv_sel=hep-lat&arxiv_sel=hep-ph&arxiv_sel=hep-th&arxiv_sel=math&arxiv_sel=math-ph&arxiv_sel=nl&arxiv_sel=nucl-ex&arxiv_sel=nucl-th&arxiv_sel=physics&arxiv_sel=quant-ph&arxiv_sel=q-bio&sim_query=YES&ned_query=YES&adsobj_query=YES&aut_logic=OR&obj_logic=OR&author=dominis+prester%2Cd.%0D%0Adominis%2Cd.%0D%0Adominis-prester%2Cd.&object=&start_mon=&start_year=&end_mon=&end_year=&ttitle_logic=OR&ttitle=&txt_logic=OR&text=&nr_to_return=200&start_nr=1&journal_pick=ALL&ref_stems=&data_and=ALL&group_and=ALL&start_entry_day=&start_entry_mon=&start_entry_year=&end_entry_day=&end_entry_mon=&end_entry_year=&min_score=&sort=SCORE&data_type=SHORT&aut_syn=YES&ttitle_syn=YES&txt_syn=YES&aut_wt=1.0&obj_wt=1.0&ttitle_wt=0.3&txt_wt=3.0&aut_wgt=YES&obj_wgt=YES&ttitle_wgt=YES&txt_wgt=YES&ttitle_sco=YES&txt_sco=YES&version=1)

##### Google Scholar:

<http://scholar.google.hr/citations?user=oTWxpOIAAAAJ&hl=en>

#### PUBLIC OUTREACH

- Active in promoting science through public media: radio (since 1986), newspapers (since 1987), TV (since 1996)
- Organized several outreach events, and participating in various outreach events through public talks and workshops (since 1994)

More details available (in Croatian) at:

<https://spp.uniri.hr/sites/portfelj/Stranice/JavnoDjelovanje.aspx>

<http://lapp.irb.hr/media/>

#### COMPUTER SKILLS

- *Programming*: FORTRAN, PASCAL, BASIC, basics of C++
- *Scientific software*: IRAF, IDL, SM, basics of ROOT
- *Operating systems*: DOS/Windows and UNIX/Linux

**OTHER IMPORTANT SKILLS AND COMPETENCES**

Observing using optical and Cherenkov telescopes.  
Team work ability, good communication skills.

**AWARDS**

- Award of the Foundation of the University of Rijeka for science and education 2014
- Award "The women of the year" for public promotion of science in Croatia 2009