

PERSONAL INFORMATION

Family name, First name: Terzić, Tomislav

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Date of birth: 18. 12. 1978

Nationality: Croatian

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• EDUCATION

13/07/2015 Doctorate

Faculty of Science, Department of Physics, University of Zagreb, Croatia

12/07/2007 Master

Faculty of Science, Department of Physics, University of Zagreb, Croatia

• CURRENT POSITION

2022 – present Associate professor

Faculty of Physics, University of Rijeka, Croatia

2021 – present Head of the Division of Theoretical Physics and Astrophysics

Faculty of Physics, University of Rijeka, Croatia

• PREVIOUS POSITIONS

2017 – 2022 Assistant professor

Faculty of Physics, University of Rijeka, Croatia

2018 – 2021 Head of the Laboratory for Astroparticle Physics

Faculty of Physics, University of Rijeka, Croatia

2015 – 2017 Postdoctoral fellow

Faculty of Physics, University of Rijeka, Croatia

2008 – 2015 Research and teaching assistant

Faculty of Physics, University of Rijeka, Croatia

2007 – 2008 Physics teacher

Elementary school Škurinje, Croatia

2007 – 2007 Physics teacher

Elementary school Čavle, Croatia

• TRAINING

2008 (1 week) CORSIKA school, Extensive air showers simulation using CORSIKA code, Freudenstadt-Lauterbad, Germany

2009 (3 months) MAGIC telescope data analysis, Max Planck Institute for Physics (Werner Heisenberg Institute), Munich, Germany

2009 (1 week) MAGIC expert school, MAGIC experiment hardware and software for experts, Centro Astrofisica de La Palma, Observatorio del Roque de los Muchachos, Instituto de Astrofísica de Canarias, La Palma, Spain

2009 (10 days) Summer School NOVICOSMO 2009: “Highlights in Astrophysics”, Rabac, Croatia

2010 (1 week) Summer school “Evolution of galaxies and their large-scale environment”, Bad Honnef, Germany

2010 (1 week) Fourth TRR33 Winter School on Cosmology: “Theory for Observers, Observations for Theorists”, inflation and non-Gaussianity, LHC Physics, large scale structure, weak lensing, Passo del Tonale, Italy

2012 (1 month)	MAGIC experiment upgrade, Observatorio del Roque de los Muchachos (Instituto de Astrofísica de Canarias), La Palma, Spain
2014 (1 week)	4th MAGIC Software School, standard and non-standard MAGIC data analysis, Padova, Italy
2015 (1 semester)	Programme “Teacher competencies in high education: Learning and teaching”, basic knowledges and competencies for university teachers, Center for teacher education, Faculty of Humanities and Social Sciences, University of Rijeka, Rijeka, Croatia
2019	The COST Academy Leadership Workshop, The COST Academy, Brussels, Belgium, Brussels, Belgium
2009 – 2016	MAGIC telescopes data taking (8 observation shifts, total duration of 6 months), Observatorio del Roque de los Muchachos (Instituto de Astrofísica de Canarias), La Palma, Spain

• FELLOWSHIPS AND AWARDS

- 2004 Award for selfless and devoted work in promotion of physics in Croatia
Awarded by the Croatian Physical Society
- 2018 Best scientific publication of young researchers in the Division of Theoretical Physics
and Astrophysics for year 2017
Awarded by the Department of Physics, University of Rijeka
- 2021 Best scientific publication for year 2020
Awarded by the Department of Physics, University of Rijeka

• INSTITUTIONAL RESPONSIBILITIES & COORDINATION

Faculty of Physics, University of Rijeka, Croatia

2013 – present Member of the Faculty Committee

2017 – present Faculty member

2021 – present Member of the Quality Assurance Committee

2021 – present Member of the Dean’s Council

2018 – 2021 Director of the master’s study programme:

Graduate study in Physics — Astrophysics and elementary particle physics major

COST Action CA18018 (2019 – 2023)

2019 – 2023 γ -ray Working Group leader (WG 3), Core Group Member,
Management Committee Member

γ -ray LIV WG

2021 – present Working Group coordinator

LST Collaboration

2023 – 2024 Fundamental Physics Working Group convener

COST Action CA23130 (2024 – 2028)

2024 – present High-energy quantum gravity experiment Working Group leader (WG 2),
Core Group Member, Management Committee Member

• MAJOR COLLABORATIONS

MAGIC (Major Atmospheric Gamma Imaging Cherenkov) Collaboration, magic.mpp.mpg.de

Member of the Time Allocation Committee and of the Speakers Analysis and Publication Office

Gamma-ray Lorentz invariance violation Working Group (γ -ray LIV WG)

CTAO (Cherenkov Telescope Array Observatory) Consortium, www.ctao.org

CTAO-LST (Large-Sized Telescope) Collaboration

COST Action CA23130: CA23130 — Bridging high and low energies in search of quantum gravity
(BridgeQG), web.infn.it/BridgeQG

SWG0 (Southern Wide-field Gamma-ray Observatory) Collaboration, www.swgo.org

• MEMBERSHIP IN PROFESSIONAL SOCIETIES

Croatian Physical Society (HFD), hrvatskofizickodrustvo.hr

Mathematical Physical Society (DMF), dmf.hr

International Society for Quantum Gravity (ISQG), isqg.org

- **INVITED AND HIGHLIGHT CONFERENCE TALKS AND SEMINARS**

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|------|-----------------|---|
| 2024 | Seminar | High Energy Experimental Astrophysics Seminars, Padova, Italy |
| 2022 | Seminar | Master in Physics of the Universe, Zaragoza, Spain |
| 2022 | Conference talk | Quantum aspects of Spacetime and Gravity, Zagreb, Croatia |
| 2021 | Conference talk | Experimental Tests and Signatures of Modified and Quantum Gravity, Bad Honnef, Germany (online) |
| 2020 | Seminar | APC Division seminar, Saha Institute of Nuclear Physics, Kolkata, India (online) |
| 2020 | Conference talk | First Annual Conference of COST Action CA18108, Granada, Spain |
| 2012 | Conference talk | LHC Days In Split, Split, Croatia |

- **RESEARCH PROJECTS**

- Hunt for the time delay in very high energy gamma rays from active galactic nuclei (AGN), 2010 – 2011, collaborator, DAAD – MZOŠ
- Evaluation of possible sites and Monte Carlo studies for a future long term monitoring Cherenkov gamma-ray observatory in Croatia, 2010 – 2011, collaborator, DAAD – MZOŠ
- Very High Energy Gamma-Ray Astronomy With the MAGIC Telescopes, 2012 – 2015, collaborator, HrZZ
- Studying the structure of the Universe using optical and Cherenkov telescopes — University of Rijeka research grant, 2013 – 2018, collaborator
- Participation of the University of Rijeka in international astroparticle experiments, 2014 – 2015, collaborator, University of Rijeka
- Very High Energy Gamma-Ray Astronomy With the MAGIC Telescopes and the CTA, 2017 – 2021, collaborator, HrZZ
- Optimizing the Cherenkov Telescope Array (CTA) for efficient observations of Active Galactic Nuclei, 2017 – 2018, collaborator, DAAD – MZO
- Studying the structure of the Universe using ground-based and satellite-borne telescopes — University of Rijeka research grant, 2019 – 2021, collaborator
- COST Action CA18108 — Quantum gravity phenomenology in the multi-messenger approach (QG-MM), 2019 – 2023, collaborator, WG3 leader
- Very-high-energy Gamma Ray Astronomy in the Multi-messenger Era, 2023 – 2027, collaborator, HrZZ
- Search for signatures of quantum gravity in astrophysical measurements — University of Rijeka research grant, 2024 – 2025, Principal Investigator
- COST Action CA23130 — Bridging high and low energies in search of quantum gravity (BridgeQG), 2024 – 2028, collaborator, WG2 leader

- **SUPERVISION OF STUDENTS AND POSTDOCTORAL FELLOWS**

- 2018 – 2024 5 Bachelor theses defended, 6 Master theses defended,
 2 doctoral students — in progress
 1 postdoctoral researcher — in progress
 Faculty of Physics, University of Rijeka, Croatia

- **TEACHING ACTIVITIES**

- Faculty of Medicine, University of Rijeka, Croatia, Teaching Assistant
 - 2008/09 – 2013/14 Basics of researches in nursery (statistics), Professional study of nursery
 - 2008/09 – 2013/14 Statistics, Undergraduate study of Dental medicine
 - 2008/09 – 2013/14 Scientific statistics and informatics, Undergraduate study of Sanitary engineering
 - 2012/13 Medical statistics, Professional study of physical therapy
- Department of Biotechnology, University of Rijeka, Teaching Assistant
 - 2014/15 – 2016/17 Physics, Undergraduate programme in Biotechnology and drug research
- Department of Informatics, University of Rijeka, Teaching Assistant
 - 2014/15 Fundamentals of Physics 2, Undergraduate study programme in Informatics
- Faculty of Physics, University of Rijeka, Croatia
 - Bachelor Study Programme in Physics
 - 2014/15 – 2016/17 Classical mechanics 2, Teaching Assistant
 - 2015/16 – 2016/17 Classical mechanics, Teaching Assistant
 - 2015/16 – 2016/17 Classical mechanics 1, Teaching Assistant
 - 2015/16 – 2016/17 Modern physics 2, Teaching Assistant
 - 2016/17 Physics 4, Lecturer
 - 2018/19 – 2023/24 Symbolical programming, Course director
 - 2022/23 – present Classical mechanics 2, Course director
 - Master Study Programme in Physics
 - 2014/15 – 2021/22 Elementary particle physics 1, Teaching Assistant
 - 2015/16 – 2017/18 Observational Astrophysics, Teaching Assistant
 - 2017/18 – present Astroparticle physics, Course director
 - 2017/18 – present Statistical mechanics, Course director
 - Doctoral Study Programme in Physics
 - 2018/19 – present Experimental methods in astroparticle physics, Course director

• ORGANISATION OF SCIENTIFIC MEETINGS

- 2019 member of LOC, LST Collaboration General (biannual) Meeting (80 part.), Croatia
- 2021 member of SOC, COST CA18108: Second Annual Conference (100 part.), Greece
- 2021 member of SOC, COST CA18108: First Training School (30 part.), Greece
- 2022 member of SOC, COST CA18108: Workshop on future challenges and opportunities in QGMM (49 part.), Italy
- 2022 member of SOC, COST CA18108: Third Annual Conference (80 part.), Italy
- 2022 member of SOC, COST CA18108: Workshop on theoretical and experimental advances in quantum gravity (40 part.), Serbia
- 2022 member of SOC, COST CA18108: Second Training School (30 part.), Serbia
- 2023 member of SOC, COST CA18108: Third Training School (40 part.), Poland
- 2023 member of SOC, president of LOC, COST CA18108: Fourth Annual Conference (80 part.), Croatia
- 2024 member of SOC: Fifth Annual Conference on quantum gravity phenomenology in the multi-messenger era (QGMM24), (80 part.), Spain
- 2025 member of SOC: Searching for Quantum Gravity in the Sky, Bad Honnef Physics School (80 part.), Germany

• TECHNICAL SKILLS AND COMPETENCIES

- Linux and MS Windows operating systems
- Python, C++, Mathematica
- LaTeX, Open Office, MS Office
- ROOT software environment
- MAGIC telescope data analysis
- Imaging atmospheric Cherenkov telescope operation

• OUTREACH

- 19 public outreach talks
- 12 appearances in newspaper articles, radio and TV shows