

**PERSONAL INFORMATION**

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Last update: April 2026

• **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
- 2023 – present    Union representative for the Faculty of Physics:  
Independent Union of Research and Higher Education Employees of Croatia

COST Action CA18018 (2019 – 2023)

- 2019 – 2023     $\gamma$ -ray Working Group leader (WG 3), Core Group member,  
Management Committee member

$\gamma$ LIV WG

- 2021 – present    Working Group coordinator

CTAO-LST Collaboration

- 2023 – 2024      Fundamental Physics Working Group convener
- 2025 – 2026      Deputy Physics Coordinator, Executive Board member
- 2026 – present    Physics Coordinator, Executive Board member

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](http://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 ( $\gamma$ LIV WG)
- CTAO (Cherenkov Telescope Array Observatory) Consortium, [www.ctao.org](http://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](http://web.infn.it/BridgeQG)
- SWG0 (Southern Wide-field Gamma-ray Observatory) Collaboration, [www.swgo.org](http://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**

2025 Conference talk First Annual Conference of COST Action CA23130, Paris, France

2025 Seminar ZARM Institute seminar (ZARM Talk), Center of Applied Space Technology and Microgravity (ZARM), University of Bremen, Bremen, Germany

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

- Search for signatures of quantum gravity in astrophysical measurements — University of Rijeka / NextGenerationEU research grant, 2025 – 2029, Principal Investigator

- **SUPERVISION OF STUDENTS AND POSTDOCTORAL FELLOWS**

2018 – present 5 Bachelor theses, 6 Master theses, 1 Doctoral thesis

1 doctoral student — 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.), UNIRI, Rijeka, Croatia
- 2021 member of SOC, COST CA18108: Second Annual Conference (100 part.), Corfu Summer Institute, Corfu, Greece
- 2021 member of SOC, COST CA18108: First Training School (30 part.), Corfu Summer Institute, Corfu, Greece
- 2022 member of SOC, COST CA18108: Workshop on future challenges and opportunities in QGMM (49 part.), UNINA, Napoli, Italy
- 2022 member of SOC, COST CA18108: Third Annual Conference (80 part.), UNINA, Napoli, Italy
- 2022 member of SOC, COST CA18108: Workshop on theoretical and experimental advances in quantum gravity (40 part.), Faculty of Physics, Belgrade, Serbia
- 2022 member of SOC, COST CA18108: Second Training School (30 part.), Faculty of Physics, Belgrade, Serbia
- 2023 member of SOC, COST CA18108: Third Training School (40 part.), Uniwersytet Wrocławski, Pałac Wojanów, Poland
- 2023 member of SOC, president of LOC, COST CA18108: Fourth Annual Conference (80 part.), UNIRI, Rijeka, Croatia
- 2024 member of SOC: Astrophysical searches for quantum-gravity-induced time delays, (18 part.), IFPU, Trieste, Italy
- 2024 member of SOC: Fifth Annual Conference on quantum gravity phenomenology in the multi-messenger era (QGMM24), (80 part.), Complutense, Madrid, Spain
- 2025 member of SOC: Searching for Quantum Gravity in the Sky, Bad Honnef Physics School (80 part.), Physikzentrum, Bad Honnef, Germany
- 2025 member of SOC: RQI and BridgeQG Workshop on Quantum Systems in Free Fall (30 part.), ZARM, Bremen, Germany

2025 member of SOC: COST CA23130: First Annual Conference (100 part.),  
Sorbonne, Paris, France

- **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**

- 20 public outreach talks
- 15 appearances in newspaper articles, radio and TV shows