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Position:

Room:

mdumbovic@geof.hr

senior research associate

Personal Information

Born: 09.05.1984, Zagreb, Croatia

Citizenship: Croatia

Address: Hvar Observatory, Faculty of Geodesy, University of Zagreb, Kaciceva 26, HR-10000, Zagreb, Croatia

(temporary address: Hvar Observatory, Faculty of Geodesy, University of Zagreb, Savska 144A, HR-10000, Zagreb, Croatia)

Professional Preparation

PostDoc at the [Institute of Physics](#) , [University of Graz](#) , Austria with secondments at [the Department for Extraterrestrial Physics at the University of Kiel](#) , Germany and

[Space Research Institute](#)

in Graz, Austria, 2017-2019

PhD in Physics (Astrophysics), [Department of Physics](#) , [Faculty of Science](#) , [University of Zagreb](#) , 2015

dipl.ing.phys (Mag.Phys), [Department of Physics](#) , [Faculty of Science](#) , [University of Zagreb](#) , 2010

Employment: Hvar Observatory, Faculty of Geodesy, University of Zagreb, (permanent) since 2019

Research field: heliophysics and space weather – large scale heliospheric transients, propagation and evolution of coronal mass ejections and their space weather effects including geomagnetic storms and Forbush decreases

Member of [Croatian Astronomical Society](#) , [Croatian Physical Society](#) , [European Geosciences Union](#) ,
[American Geophysical Union](#)

,
[International Astronomical Union](#)

,
[European Astronomical Society](#)

,
[European Physical Society](#)

(
[ESPD](#)

board member),

[European Space Weather and Space Climate Association](#)

(member of the E-SWAN founding board),

[Awards Committee for International Space Weather And Space Climate Medals](#)

,
[European Cosmic Ray Symposium \(ECRS\) International Advisory Committee](#)

,
[COSPAR - IDEA working group](#)

,
[SCOSTEP](#)

Science Discipline Representative,

[SWATNet](#)

Advisory board member

Refereeing: more than 70 reviews of *scientific papers* in a number of different international peer review journals (see [Web of science](#)); [Exc](#)
[optional reviewer](#)

for Solar Physics 2017,

[Outstanding reviewer](#)

for

AGU Journals/Earth and Space Science 2017;

scientific projects

for

[National Research, Development and Innovation Office \(NKFIH\)](#)

in Hungary and
[National Aeronautics and Space Administration \(NASA\)](#)
in USA

Awards, fellowships and honours:

Best student poster award at [European cosmic ray symposium 2014](#)
fellowship of the national program " [For Women in Science](#) " in 2016
[Marie Skłodowska Curie Actions](#) individual fellowship 2017
[SCOSTEP2020 Distinguished Young Scientist Award](#) in 2020
[The Alexander Chizhevsky Medal for Space Weather and Space Climate](#) in 2020
[Arne Richter Award for Outstanding Early Career Scientists of the European Geosciences Union](#) in 2021

SCIENTIFIC PROJECTS:

current-PI:

"Interaction of COronal HOles and Solar Storms ([ICOHOSS](#))", [HRZZ](#) national project
"Analysis of solar eruptive phenomena from cradle to grave", bilateral Austrian-Croatian project
funded by [MZO](#)

current-associate:

"SPECification, Analysis & Re-calibration of High Energy pArticle Data ([SPEARHEAD](#))", EU
HORIZON EUROPE, PI for OH
" [Understanding Our Capabilities In Observing And Modeling Coronal Mass Ejections](#) ", member
of ISSI team
"Magnetic Helicity from the Sun to Earth: Towards a better understanding", Austrian nacional
project (PI: J. Thalmann)

past-PI:

"Forbush decrease analysis using model fitting to SOHO/EPHIN data (ForbMod)", [ESA](#)
scientific project
EU Horizon 2020 Marie Skłodowska Curie Actions project No.745782 "Forbush decrease model
for expanding CMEs affecting Earth and Mars ([ForbMod](#))" [ESF](#) funded national project "Increase of the competitiveness through development of
researchers in Solar Physics ([PoKRet](#))" [PoKRet](#)

past-associate:

"Integrating High Resolution Solar Physics ([SOLARNET](#))", EU H2020 project
"Development of the Drag-Based-Ensemble Model for studies on the propagation of solar
storms ([DBEM](#))", Austrian-Croatian bilateral project
"Cosmic Ray Modulation by Solar Coronal Mass Ejections", [CORAMOD](#) , [MZOS](#) / [DAAD](#)

bilateral project

"Solar and Stellar Variability", [SOLSTEL](#) , [HRZZ](#) national project

"High-resolution Solar Physics Network", [SOLARNET](#) , EU FP7 project

"Coronal Mass Ejections and Solar Energetic Particles", [COMESEP](#) , EU FP7 project

"Predicting solar coronal mass ejections effects on the geomagnetic field", HEP-donacije, funded by the Croatian power company [HEP](#)

"Solar-Terrestrial Investigation and Archives", [SOTERIA](#) , EU FP7project

Publications:

[NASA/ADS](#)

[CROSB](#)

[ResearchGate](#)

[Google Scholar](#)

[ORCID](#)

[Web of Science](#)

[Scopus](#)

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