mdumbovic@geof.hr

+38514639279

Position: senior research associate

Room:

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 Extraterrrestrial 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 forInternational 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); Exceptional 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,

National Aeronautics and Space Administration (NASA)
in USA,
Research council of Finland
in Finland

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 Sklodowska 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 (CO-I with Julia Thalmann)
"Forbush decrease analysis throughout heliosphere using Forbush decrease model ForbMod (ForbMod2)", ESA scientific project

current-associate:
"SPEcification, Analysis & Re-calibration of High Energy pArticle Data (SPEARHEAD)", EU HORIZON EUROPE, PI for OH
"Small-scale magnetic flux ropes under the microscope with Parker Solar Probe and Solar Orbiter", 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 Sklodowska 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)"

past-associate:
" **Understanding Our Capabilities In Observing And Modeling Coronal Mass Ejections** ",

member of ISSI team
"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
CRORIS
ResearchGate
Google Scholar
ORCID
Web of Science
Scopus

[*Foto by Jakov Kastelanac (portal "Tocka na i")]*