

BARBARA MALEČIĆ

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Address	Faculty of Science, Department of Geophysics Horvatovac 95, 10 000 Zagreb, Croatia	E-mail	bmalecic@gfz.hr
Nationality	Croatian		

Employment

2019 - **Research Assistant at the Geophysics Department of the Faculty of Science, University of Zagreb, Croatia**
Working on a project "Severe weather over the Alpine-Adriatic region in a changing climate" funded by the Swiss Science Foundation and Croatian Science Foundation.

- analyzing conditions and processes that can lead to hail-producing storms
- evaluating the ability of the WRF-HAILCAST model in simulating hail events
- tuning of the WRF-HAILCAST model due to local conditions

Education & academic degrees

2019 Enrolment of the postgraduate studies at the Geophysics Department of the Faculty of Science, University of Zagreb

- supervisors: dr. sc. Kristian Horvath and izv. prof. dr. sc. Maja Telisman Prtenjak

2019 Graduate physics-geophysics degree (field: Meteorology and Physical Oceanography) at the Geophysics Department of the Faculty of Science, University of Zagreb, Croatia

- Diploma Thesis - "Evaluation of turbulent triplet covariances for bora flows" with doc. dr. sc. Željko Večenaj

Skills

Technical Skills

- very good statistical data processing and programming skills in Python
- very good statistical data processing and programming skills in MATLAB
- active use of Linux environment and tools
- active use of the WRF model in HPC environments
- good programming skills in Fortran 95
- good command of MS Windows and Microsoft Office™ tools
- ability to master new technical challenges in a short period of time
- ability to develop creative solutions to problems, especially technical issues

Communicational Skills

- good communication and presentation skills acquired mainly through conference participations
- ability to actively listen and encourage discussion
- ability to accept and give feedback
- ability to project oneself into the audience's point of view

Foreign languages

- English: fluent knowledge
- German: basic knowledge

Conference participations

- 1 Malečić, Barbara; Ćorko, Karol; Jelić, Damjan; Horvath, Kristian; Strelec Mahović, Nataša; Mikuš Jurković, Petra; Telišman Prtenjak, Maja: **Analysis of the WRF-HAILCAST model applied to the Croatian area.** *European Conference on Severe Storms*, Krakow, Poland, 2019. (poster, international peer-review, unpublished, scholarly)
- 2 Jelić, Damjan; Telišman Prtenjak, Maja; Skok, Gregor; Malečić, Barbara: **Capabilities of Eulerian based lightning jump algorithm.** *10th European Conference on Severe Storms*, Krakow, Poland, 2019. (poster, international peer-review, unpublished, scholarly)
- 3 Ćorko, Karol; Malečić, Barbara; Jelić, Damjan; Horvath, Kristian; Strelec Mahović, Nataša; Mikuš Jurković, Petra; Telišman Prtenjak, Maja: **Analysis of modeled hail parameters obtained by numerical mesoscale WRF-HAILCAST model.** *The EMS Annual Meeting 2019*, Copenhagen, Denmark, 2019. pp. 1-1 (poster, international peer-review, abstract, scholarly)
- 4 Malečić, Barbara; Večenaj, Željko, Grisogono, Branko: **Evaluation of the turbulent triplet covariances for the bora flows.** *35th International Conference on Alpine Meteorology*, Riva del Garda, Italy, 2019. (poster, international peer-review, unpublished, scholarly)

Awards

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| 2019 | Croatian Meteorological Society Award for the best Diploma Thesis defense |
| 2017 | Rector's award
Malečić, Barbara; Simić, Niko; Telišman Prtenjak, Maja; Belušić, Andreina: Coding and testing of algorithm for cyclone detection in results of regional climate model |