



Mara  
VLAŠIĆ

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## Work Experience

OCTOBER, 2022 - CURRENT

TEACHING AND RESEARCH ASSISTANT | FACULTY OF ELECTRICAL AND COMPUTER  
ENGINEERING, UNIVERSITY OF DUBROVNIK | Dubrovnik, Croatia

SEPTEMBER, 2021 – OCTOBER, 2022

MATHEMATICS AND PHYSICS TEACHER | GYMNASIUM DUBROVNIK | Dubrovnik, Croatia

## Education

OCTOBER, 2022 – CURRENT

DOCTORAL STUDY | UNIVERSITY OF ZAGREB, FACULTY OF SCIENCE, DEPARTMENT OF  
MATHEMATICS | Zagreb, Croatia

Courses:

- Partial Differential Equations, Control of partial differential equations, Homogenization and topology optimization;
- Numerical Mathematics, Data driven computational analysis of nonlinear dynamics;
- Research frameworks in mathematics education.

Seminars:

- Seminar for differential equations and numerical analysis
- Seminar for applied mathematics and control theory

OCTOBER, 2016 – SEPTEMBER, 2021

MASTER'S DEGREE IN MATHEMATICS AND PHYSICS EDUCATION | UNIVERSITY OF ZAGREB,  
FACULTY OF SCIENCE, DEPARTMENT OF MATHEMATICS | Zagreb, Croatia

## Training

JULY 22 - AUGUST 16, 2024

“SCUOLA MATEMATICA INTERUNIVERSITARIA” in Perugia, Italy

- Participated and completed the following courses: Differential Equations of Mathematical Physics and Applications, Functional Analysis

JULY 1-5, 2024

“CONTROL AND MACHINE LEARNING” (M18 DUBROVNIK module), Croatia

- IEECI-IGSC 2024: International Graduate School on Control 2024 organized by EECI – European Embedded Control Institute and IEEE CSS and IFAC – International Federation of Automatic Control.
- Attendend the 21-hours lecture series and passed the final examination

FEBRUARY 19-23, 2024

"MODEL REDUCTION FOR OPTIMIZATION AND CONTROL", Dubrovnik, Croatia

- COST Action: CA18232 - Mathematical models for interacting dynamics on networks

## Projects

FEBRUARY, 2024 – JANUARY, 2028

OPTIMAL CONTROL AND MODEL REDUCTION FOR EVOLUTION AND DATA DRIVEN PROBLEMS

Research project funded by Croatian Science Foundation

JANUARY, 2023 – DECEMBER, 2024

MANAGEMENT OF PDJ SYSTEMS WITH INCOMPLETE DATA  
bilateral HR-DE project/ MZO-DAAD 2023. / 2024.

## Conferences

SEPTEMBER 23-27, 2024

APPLMATH24 - the 12th in a series of conferences on applied mathematics and scientific computing, Dubrovnik, Croatia

## Language

Native tongue: CROATIAN

Other language: ENGLISH

## Honours and Awards

- ACADEMIC SCHOLARSHIP AWARDED BY THE CITY OF DUBROVNIK (FOR 5 YEARS)
- DEAN'S AWARD FOR EXCEPTIONAL SUCCESS IN THE STUDY OF MATHEMATICS AND PHYSICS, TEACHING MAJOR