

# Dimitra-Eirini Diamantidou

## WORK EXPERIENCE

**Graduate Researcher** 9/2019 – Present  
*Mälardalen University (MDU), Sweden*

- Aerodynamic numerical simulations of boundary layer ingesting propulsors
- Novel multi-disciplinary design approach for aircraft conceptual design
- Integration of the propulsive system disciplines with airframe aspects to achieve system-level assessment
- Design space exploration and optimization studies for optimal hybridization strategy
- Development of surrogate models by employing machine learning algorithms for robust engine design

**Internship** 2/2019 – 08/2019  
*ABB Corporate Research Center, Sweden*





- Numerical analysis of high voltage components to investigate thermal performance
- Development of reduced order models using machine learning techniques to predict the thermal loading of components

**Suspension Team Leader** 9/2014 – 09/2016  
*Aristotle Racing Team, Formula Student*

- Responsible for design technical reports required by Formula Student competitions
- Design and construction of suspension components and aerodynamic package using composite materials; responsible for suspension set-up during the testing period
- Responsible for car assembly including different disciplines; parametric CAD geometry for suspension kinetic analysis
- Distinctions: Formula Student Hungary 2016 9th/40 teams overall, 3rd/20 combustion teams, 2nd in Cost, Manufacturing and, Sustainability event (award)

## EDUCATION

2013 – 2019 **Mechanical Engineering**  
5 YEAR DIPLOMA  
*Aristotle University of Thessaloniki, Greece*

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## COMPUTER SKILLS

PROGRAMMING	Python, Bash, Fortran, Matlab
SOFTWARE	OpenFOAM, ANSA, Ansys Fluent
CAD	Creo Parametric, Solidworks, Autodesk Inventor
OS	Ubuntu, Mac, Windows 10

## ACHIEVEMENTS

2022 **Chair of Student Advisory Committee**  
*American Society of Mechanical Engineers (ASME) Turbo Expo 2023*

2021 **Vice-chair of Student Advisory Committee**  
*American Society of Mechanical Engineers (ASME) Turbo Expo 2022*

2021 **Student travel award**  
*Participation in ASME Turbo Expo 2021*

## COMMUNICATION SKILLS

GREEK	Native
ENGLISH	Fluent
SWEDISH	Beginner

## EXTRA CURRICULAR ACTIVITIES

2021 **MDU Doctoral Council Member**  
*Representative at Subcommittee of Economy and FEC Research Council*

2022 **NUMAP-FOAM winter school**  
*OpenFoam development 2-week winter school, Zagreb, Croatia*

2020 **Triathlon, Portrait photographer**