

## **Salpingidou Christina**

### ➤ **Personal Information**

Name : Christina Surname: Salpingidou

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### ➤ **Education and Training**

- 2009 - 2014 Mechanical Engineering Department, Aristotle University of Thessaloniki, Greece Diploma degree 8.68/10
- Kastoria High school (2009), Graduation degree 19,8/20
- Excellent knowledge of English language, Certificate of Proficiency in English University of Michigan
- Very good knowledge of German language Zertifikat B1 -Goethe Institut

### ➤ **Work experience**

- November 2013 –  
Member of a research team - participation in project LEMCOTEC - Low Emissions COre-engine TEChnologies, Collaborative Project co-funded by the European Commission within the Seventh Framework Programme (2007-2013)  
Main tasks
  - 3D CFD modeling and 3D effects of the hot-gas exhaust nozzle of the aero engine
  - Experimental validation optimized nozzle configuration
- February 2013  
Member of a reasearch team - participation in project. Funded project by the Greek General Secretariat for Research and Technology with the cooperation of three Greek Universities and three Greek companies, for the design and construction of a UAV for civil operations. Chief Engineer and coordinator of the project Professor Yakinthos, Thessaloniki (Greece) [hcuav.gr](http://hcuav.gr)
  - Conceptual and preliminary design of an unmanned air vehicle
  - CFD modelling (Ansys CFX)
  - Aerodynamic design and performance
- May 2014- October 2014  
Six-month research work in the company MTU Aero Engines Munich. The main aspect was "Numerical investigation of a two-phase flow ejector."  
Main tasks
  - CFD modeling of the two phase flow through the ejector (Ansys CFX)
  - Optimization and re-design of the ejector (Ansys ICEM)

### ➤ **Publications**

- Bachelor thesis: Conceptual and preliminary design of an unmanned air vehicle (MALE)
- Master Thesis: Numerical Investigation of a Two-Phase flow ejector

- National conference on fluid mechanics Athens 12 -13 December 2014 “Aerodynamic design of a MALE UAV. Part I: Conceptual design phase”
- National conference on fluid mechanics Athens 12 -13 December 2014 “Aerodynamic design of a MALE UAV. Part II: Preliminary design phase”
- *8th GRACM International Congress on Computational Mechanics Volos, 12 July – 15 July 2015* “CFD-AIDED DESIGN PROCEDURE, PERFORMANCE ESTIMATION AND OPTIMIZATION STUDY OF A MALE UAV”
- *8th GRACM International Congress on Computational Mechanics Volos, 12 July – 15 July 2015* COMPUTATIONAL FLOW ANALYSIS AND DEVELOPMENT OF A SURROGATE MODEL FOR THE PREDICTION OF THE FLUID FLOW AND THE 3D FLOW EFFECTS AROUND A PROPELLER

### ➤ **Scholarships and prizes**

- Scholarship for the PhD from Alexander S. Onassis Public Benefit Foundation for the scholarship
- Diploma degree 8.68
- Αποφοίτηση μέσα στο 9% των καλύτερων βαθμών πτυχίου.
- Scholarship from ΤΙΦΚΙΕΗ foundation for the academic year 2014 for excellent marks. The scholarship is awarded to only one student of the department with a degree above 8.
- Scholarship from the Greek government for excellent marks (19.6 out of 20) in Panhellenic National Level Examinations
- Scholarship from Emporiki Bank for excellent marks (19.6 out of 20) in Panhellenic National Level Examinations
- Scholarship from Emporiki Bank for having excellent marks in all high school classes
- Scholarship from Emporiki Bank for having excellent marks for the academic year 2009-2010
- Leader of the mathematics school team
- Silver medal in the school rowing championship in pair April 2006)
- Silver medal in the greek rowing championship in coxless four (July 2007)
- 20 medals at several national and European rowing races (2003-2007)

### ➤ **Technical skills**

- Good knowledge of CFD software: ANSYS-FLUENT, ANSYS-CFX, NUMECA FINE/Turbo (FINE, IGG και CFVIEW)
- Good knowledge of Autodesk-Inventor and Autodesk-Autocad
- Good knowledge of CFD meshing software ANSYS- MESHING, ANSYS ICEM
- Good knowledge and use of Microsoft Office®, Certificate of European Computer Driving License
- Good knowledge of MATLAB, FORTRAN