

16/11/2015 *Sarabedini*

————— **MODINI Sara**



PRESENT POSITION

- January 2015 – December 2015 **POST-DOCTORAL SCHOLARSHIP "Generation and Radiation of the Helicopter Noise during Landing Operations"**
DIMA department, University of Rome 'La Sapienza'
- March 2015 – June 2015 **TEACHING ASSISTANT**
Tutor in Aerodynamics
University of Rome 'La Sapienza' - Aerospace Engineering Faculty

PREVIOUS POSITIONS

- June 2011 – October 2011 **APISERVICES LIMITED** - London, UK
Internship - Supply and Trading department
- April 2011 – May 2011 **API ANONIMA ITALIANA SPA** - Rome, Italy
Internship - Supply and Trading department
- January 2011 - March 2011 **INSEAN – CNR** - Rome, Italy
Internship - Computational Fluid Dynamics

EDUCATION

- 2011-2014 **Ph.D. in THEORETICAL AND APPLIED MECHANICS**
DIMA department, University of Rome 'La Sapienza'

Title of Thesis: '**Blade-Vortex Interaction and Noise Reduction in Helicopter Rotors**'
Supervisor Prof. Giorgio Graziani
- 2009-2010 **MASTER of SCIENCE in AERONAUTICAL ENGINEERING**
University of Rome 'La Sapienza'
PEGASUS certificate (The European Network of Excellence in Aerospace Engineering education)

Title of Thesis: '**Vorticity and Vortex Dynamics by the Lattice Boltzmann Method (LBM) for Aeronautical Applications**'
Final mark : **110/110 cum laude**
- 2005-2008 **BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING**
University of Rome 'La Sapienza'

Title of Thesis: '**Boundary Layer at Low Reynolds Numbers**'

16/11/2015 Seratoni

RESEARCH AREAS

Aerodynamics, Aeroacoustics, Fluid-Structural Interaction, Control Systems

Modini,S., Graziani,G., Bernardini,G., and Gennaretti,M.,
PARALLEL BLADE-VORTEX INTERACTION MODELING FOR HELICOPTER ROTOR NOISE CONTROL SYNTHESIS
In: International Journal of Aeroacoustics, IJA

Modini,S., Graziani,G., Bernardini,G., and Gennaretti,M.,
SYNTHESIS OF A ROTOR NOISE CONTROLLER BY PARALLEL BLADE-VORTEX INTERACTION
AEROELASTIC MODELING
In: PVP2014-28258, July 2014, Anaheim LA.

Modini,S., Graziani,G., Bernardini,G., and Gennaretti,M.,
BLADE VORTEX INTERACTION 2D MODELING FOR ROTOR NOISE CONTROL SYNTHESIS
In: XXII AIDAA Conference, September 2013, Naples.

Modini,S., Graziani,G., Bernardini,G., and Gennaretti,M.,
PARALLEL BLADE-VORTEX INTERACTION ANALYSES AND ROTOR NOISE CONTROL SYNTHESIS
In: 19th AIAA/CEAS Aeroacoustics Conference (34th AIAA Aeroacoustics Conference), May 2013, Berlin.

GRANTS and FELLOWSHIPS

2014 - 2015	Research Grant for the Project 'ANALYSIS AND CONTROL OF THE ROTOR NOISE DURING LANDING OPERATIONS' University of Rome 'La Sapienza'
2012 - 2013	Research Grant for the Project 'PARALLEL BLADE-VORTEX INTERACTION ANALYSIS AND ROTOR NOISE CONTROL SYNTHESIS' University of Rome 'La Sapienza'
2011 - 2014	PhD in THEORETICAL AND APPLIED MECHANICS, Scholarship University of Rome 'La Sapienza'
August 2010–March 2011	Master Thesis Scholarship, INSEAN – CNR - Rome, Italy

LANGUAGES

ITALIAN (Mother Tongue)

ENGLISH (Fluent) **TOEIC CERTIFICATE**
BUSINESS ENGLISH COURSE OF THE INTERNATIONAL HOUSE LONDON

TECHNICAL SKILLS

Operating Systems **UNIX/Linux**, Windows 7/Vista/XP

Programming Languages Microsoft Office, **Fortran 77/90/95**, C, C++, Matlab & Simulink, MPI & OpenMP

EXTRACURRICULAR ACTIVITIES

Outside Interests Tennis, TRIATHLON, Travelling, Scuba Diving

Special Qualifications Advanced PADI Scuba Diver License, Basic Life Support (**BLS**) Certification