

EUROPEAN CURRICULUM VITAE



PERSONAL INFORMATION

Name **LEOTARDI CECILIA**
Address **VIA DEI SIMONETTA, 15, 00163 - ROMA (ITALIA)**
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E-mail c.leotardi@pec.ording.roma.it; cecilia.leotardi@cnr.it;
Nationality Italiana
Date of birth 27 MAGGIO 1976

WORK EXPERIENCE

- Date (from – to) 01/04/2016 – today
- Name and address of the employer **National Research Council – Marine Technology Research Institute (Consiglio Nazionale delle Ricerche, Istituto Nazionale per Studi ed Esperienze di Architettura Navale INSEAN)**
Via di Vallerano 139, 00128 Roma, Italia
Public Research Center
Research Engineer
Methods for multidisciplinary analysis and optimization for simulation-based ship hydrodynamics.
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities
- Date (from – to) 26/09/2016 - 31/03/2017
- Name and address of the employer **Joint Programming Initiative Healthy and Productive Seas and Oceans (JPI Oceans)**
Rue du Trône 130, 1050 Brussels, Belgium
Scientific Officer seconded to JPI Oceans Secretariat from National Research Council – Marine Technology Research Institute
Responsible scientific officer for the joint action *Building an Efficient Transdisciplinary Scientific Community for Policy Relevant Knowledge on Coastal and Maritime Planning and Management* (9 european countries involved)
Staff member
ERA-NET Cofund on Marine/Maritime Technologies - MarTERA (sixteen european countries involved),
Management Board Meetings background docs preparation;
JPI Oceans Workshop - Enabling and Cross-Cutting Maritime Technologies all'European Maritime Day 2017
- Occupation or position held
- Main activities and responsibilities
- Date (from – to) 11/02/2013 - 31/03/2016
- Name and address of the employer **National Research Council – Marine Technology Research Institute (Consiglio Nazionale delle Ricerche, Istituto Nazionale per Studi ed Esperienze di Architettura Navale INSEAN)**
Via di Vallerano 139, 00128 Roma, Italia
Public Research Center
Postdoctoral Research Fellow
- Type of business or sector
- Occupation or position held

- Main activities and responsibilities
 - Date (from – to)
- Name and address of the employer
 - Type of business or sector
 - Occupation or position held
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 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
 - Date (from – to)
- Name and address of the employer
 - Type of business or sector
 - Occupation or position held

Research topics: "Development and applications of models and methods for multidisciplinary optimization".
 Development, implementation and validation of techniques for multidisciplinary simulation-based design optimization. Development, implementation and validation of efficient strategies for multidisciplinary robust simulation-based design optimization including environmental/operational stochastic parameters.

01/02/2011 - 31/01/2013

Roma Tre University, Mechanical and Industrial Department (Università degli Studi Roma Tre, Dipartimento di Ingegneria Meccanica ed Industriale (DIMI))

Via della Vasca Navale 79, 00163 Roma, Italia

University

Research Fellow and Postdoctoral Research Fellow

Research topics: "Development of multi-fidelity algorithms for the aerodynamic analysis of innovative designs".

Development, implementation and validation of strategies for multifidelity, multidisciplinary and multi-objective simulation-based design optimization.

March 2012

LMS International

Interleuvenlaan 68 3001 Leuven, Belgio

Private company

Visiting Researcher

Joint Research between LMS International and Roma Tre University - Mechanical and Industrial Department in the framework of EC Founded Project COSMA (Community Oriented Solutions to Minimise Aircraft Annoyance).

Determination of static noise sources from semi-empirical models.

16/08/2010 – 15/02/2011

Roma Tre University, Mechanical and Industrial Department (Università degli Studi Roma Tre, Dipartimento di Ingegneria Meccanica ed Industriale (DIMI))

Via della Vasca Navale 79, 00163 Roma, Italia

University

Researcher

Research topic: "Multidisciplinary optimization of landing and take-off procedures to minimize noise impact".

Development, implementation and validation of strategies for the minimization of noise levels during landing and take-off procedures.

01/10/2009 – 31/12/2009

Roma Tre University, Mechanical and Industrial Department (Università degli Studi Roma Tre, Dipartimento di Ingegneria Meccanica ed Industriale (DIMI))

Via della Vasca Navale 79, 00163 Roma, Italia

University

Researcher

Integration of flight mechanics modules in multidisciplinary design optimization framework.

01/03/2009 – 31/05/2009

Roma Tre University, Mechanical and Industrial Department (Università degli Studi Roma Tre, Dipartimento di Ingegneria Meccanica ed Industriale (DIMI))

Via della Vasca Navale 79, 00163 Roma, Italia

University

Researcher

- Main activities and responsibilities

Development, implementation and validation of models for the minimization of the acoustic impact of civil aircraft via innovative technologies applied to the noise sources.

EDUCATION AND TRAINING

- | | |
|---|--|
| <ul style="list-style-type: none"> • Date (from – to) • Name and type of organisation providing education and training • Title of qualification awarded | <p>01/01/2011
Engineer Register of Rome District</p> <p>Licensed Engineer</p> |
| <ul style="list-style-type: none"> • Date (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded | <p>01/11/2007-31/10/2010
Roma Tre University, Mechanical and Industrial Department (Università degli Studi Roma Tre, Dipartimento di Ingegneria Meccanica ed Industriale (DIMI))</p> <p>Ph.D. thesis: "An Innovative Decomposition of the Velocity Field with the Corresponding Generalized Bernoulli Theorem for Viscous Flows" (tutor Prof. Luigi Morino).
Ph.D. on 29/03/2011</p> |
| <ul style="list-style-type: none"> • Date (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded • Level in national or international classification | <p>01/10/1998-25/07/2007
Roma Tre University, Mechanical and Industrial Department (Università degli Studi Roma Tre, Dipartimento di Ingegneria Meccanica ed Industriale (DIMI))</p> <p>MSc thesis: "Integral methods for transonic aerodynamics applications (Metodi integrali per lo studio di problemi di aerodinamica transonica)" (tutor: Prof. Umberto Iemma; co-tutor: Prof. Luigi Morino).
MSc in Mechanical Engineering
108/110</p> |

**RESPONSABILITIES AND
PARTICIPATION TO RESEARCH
PROJECTS**

1. European Commission, Grant Agreement EASME/EMFF/2016/1.2.1.2/02/SI2.750174; "ASSESS, *Advanced skills in safety, environment and Security at Sea*"; EUR 55,050; 01/02/2017– 31/01/2019; CNR-INSEAN, PI: Cecilia Leotardi, Co-PI: Emilio F. Campana.
2. European Commission, FP7, Grant Agreement 312772 - INFRASTRUCTURES-2012-1; "EUROFLEETS2, New operational steps towards an alliance of European research fleets"; EUR 114,000; 01/04/2014 – 28/02/2017 (extended to 28/08/2017); CNR-INSEAN, PI: Cecilia Leotardi, Co-PI: Emilio F. Campana.
3. A. Vallicelli & C – AVC, "Hydrodynamic characterization of a motor-yacht (Attività numerica per la caratterizzazione idrodinamica di un motor-yacht)"; EUR 6,500; 26/05/2014 – 15/10/2014; CNR- INSEAN, PI: Cecilia Leotardi.
4. DLTM, Liguria District of Marine Technology, Italy; "USV PERMARE, Autonomous surface vehicle for marine environment monitoring system"; EUR 236,145; 1/2015 – 12/2016; CNR- INSEAN, PI: Stefano Zaghi, Co-PIs: Matteo Diez, Luca Mauro, Francesco Salvatore; Research Staff: Cecilia Leotardi.
5. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project, Subproject 1 "Maritime Technologies," subtask SP1_WP2_AZ2_UO06 "CO2 emission reduction"; EUR 231,982; 11/02/2013 – 31/12/2016; CNR- INSEAN, subproject PI: Emilio F. Campana, subtask PI: Matteo Diez ; Research Staff: Cecilia Leotardi.
6. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project, Subproject 1 "Maritime Technologies," subtask SP1_WP2_AZ3_UO08 "Acoustic emission reduction"; EUR 100,000; 11/02/2013 – 31/12/2016; CNR-INSEAN, subproject PI: Emilio F. Campana, subtask PI: Matteo Diez; Research Staff: Cecilia Leotardi.
7. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project, Subproject 2 "Technologies for Sustainable Fishing," action SP2_WP3_AZ1 "Energy efficiency and environmental impact"; EUR 630,000; 11/02/2013 – 31/12/2016; and subtask SP2_WP3_AZ1_UO03 "Hull/propeller optimization"; EUR 200,000; 11/02/2013 – 31/12/2016; CNR-INSEAN, subproject PI: Fabio Fiorentino, subtask PI: Matteo Diez; Research Staff: Cecilia Leotardi.
8. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project, Subproject 1 "Maritime Technologies," subtask SP1_LI1_WP1_UO01 "Scientific Catamaran"; EUR 200,000; 01/01/2016 – 31/12/2016; CNR-INSEAN, subproject PI: Emilio F. Campana, subtask PI: Claudio Lugni; Research Staff: Cecilia Leotardi.
9. European Commission, FP7, Collaborative Project, grant no. ACP8-GA-2009-234118 "COSMA, Community Oriented Solutions to Minimise Aircraft Noise Annoyance"; EUR 213,840; 6/2009 - 3/2013; University of Roma Tre, PI: Umberto lemma, Co-PIs: Matteo Diez, Cecilia Leotardi.

**ACTIVITIES AND PROFESSIONAL
ASSIGNMENTS, PARTICIPATION TO
WORKING GROUPS**

- CNR-INSEAN PI for the proposal "Pilot actions towards an Adriatic Ionian Maritime Network", EU funded project in the framework of INTERREG ADRION - FIRST CALL, March 2016.
- Coordinator of the Joint Research Activity 1 (JRA1-WP11) "Regional RVs Guidelines and Generic Designs" del EU-FP7 Project "EUROFLEETS2, New operational steps towards an alliance of European research fleets", 01/04/2014 – 28/08/2017.
- Organizer and co-chair of the Joint Research Activity 1 Workshop (JRA1-WP11) "Regional RVs Guidelines and Generic Designs" hosted during the International Research Ship Operators (IRSO) 2016 Meeting, Anacapri 10 October 2016.
- Member (representing CNR-INSEAN), ERCOFTAC (European Research Community On Flow, Turbulence And Combustion), Special Interest Group in Uncertainty Quantification in Industrial Analysis and Design (SIG45, 2014-today).
- Deputy member of a competition selection board for a Fellowship at CNR-INSEAN, Competition Notice INSEAN-004-2016-RM
- Member (representing CNR-INSEAN), ERVO (European Research Vessels Operators) (2015-today).
- Member (representing CNR-INSEAN), IRSO (International Research Ship Operators) (2015-today).
- Reviewer for scholarly journals: Journal of Ship Research; Journal of Marine Science and Technology.
- Degree Committee Members Board, Rome Tre University, Engineering Department, 2009-2012.

PUBLICATIONS

1. Pellegrini, R., Serani, A., Leotardi, C., Iemma, U., Campana, E.F. and Diez, M., 2017. Formulation and parameter selection of multi-objective deterministic particle swarm for simulation-based optimization. *Applied Soft Computing*, 58, pp.714-731. DOI: 10.1016/j.asoc.2017.05.013.
2. Serani, A., Leotardi, C., Iemma, U., Campana, E.F., Fasano, G. Diez, M., "Parameter selection in synchronous and asynchronous deterministic particle swarm optimization for ship hydrodynamics problems," *Applied Soft Computing*, Vol. 49,2016, pp.313-334. DOI: 10.1016/j.asoc.2016.08.028.
3. Leotardi C., Serani A., Iemma U., Campana E.F., Diez M., "A variable-accuracy metamodel-based architecture for global MDO under uncertainty," *Structural and Multidisciplinary Optimization* 54(3):573-593, Springer, 2016.
4. Diez M., Serani A., Leotardi C., Campana E.F., Fasano G., Gusso R., "Dense Orthogonal Initialization for Deterministic PSO: ORTHOinit+," 7th International Conference, ICSI 2016, Bali, Indonesia, June 25-30, 2016, Proceedings, Part I. In: *Advances in Swarm Intelligence, Lecture Notes in Computer Science Volume 9712*, 2016, pp 322-330.
5. Diez M., Serani A., Leotardi C., Campana E.F., Peri D., Iemma U., Fasano G., Giove S., "A proposal of PSO particles' initialization for costly unconstrained optimization problems: ORTHOinit," 5th International Conference, ICSI 2014, Hefei, China, October 17-20, 2014, Proceedings, Part I. In: *Advances in Swarm Intelligence, Lecture Notes in Computer Science Volume 8794*, 2014, pp 126-133.
6. Leotardi C., "Hull-form optimization of a luxury yacht under deterministic and stochastic operating conditions via global derivative-free algorithms" to appear in the proceedings of the VII International Congress on Computational Methods in Marine Engineering - MARINE 2017, Nantes, France, 15-17 May 2017.
7. Pellegrini R., Leotardi C., Zaghi S., Broglia R., Campana E.F., Iemma U., Diez M., "Multi-fidelity adaptive metamodel for ship hull performance via CFD," 19th Numerical Towing Tank Symposium, St Pierre D'Oléron, France, 2-5 October 2016.
8. Serani A., Leotardi C., Campana E.F., Diez M., "Design-space dimensionality reduction in hydrodynamic shape optimization by generalized Karhunen-Loève Expansion," 2016 Congress of the Italian Society of Industrial and Applied Mathematics (SIMAI), 13-16 September 2016.
9. Pellegrini R., Iemma U., Leotardi C., Campana E.F., Diez M., "Multi-fidelity adaptive global Metamodel of expensive computer simulations," in Proceedings of IEEE CEC 2016, World Congress on Computational Intelligence, Special Session on Multi-Fidelity Design Optimization under Epistemic Uncertainties, Vancouver, Canada, 25-29 July 2016.
10. Pellegrini R., Leotardi C., Iemma U., Campana E.F., Diez M., "A multi-fidelity adaptive sampling method for metamodel-based uncertainty quantification of computer simulations," in Proceedings of VII European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS Congress 2016), Crete, Greece, 5-10 June 2016.
11. Pellegrini R., Leotardi C., Iemma U., Campana E.F., Diez M., "Structural and hydrodynamic characterization of a NACA 0009 hydrofoil by finite elements," 18th Numerical Towing Tank Symposium (NuTTS'15), Cortona, Arezzo, Italy, September 2015.
12. Zaghi S., Leotardi C., Muscari R., Dubbioso G., Diez M., Broglia R., "RANS hydrodynamic characterization of a USV SWATH configuration including design optimization," 18th Numerical Towing Tank Symposium (NuTTS'15), Cortona, Arezzo, Italy, September 2015.
13. Leotardi C., Campana E.F., Diez M., "Resistance reduction of a military ship by variable-accuracy metamodel-based multidisciplinary robust design optimization," VI International Conference on Computational Methods for Coupled Problems in Science and Engineering, COUPLED PROBLEMS 2015, May 2015.
14. Leotardi C., Campana E.F., Diez M., "On the use of uncertainty quantification in variable-accuracy simulation-based multidisciplinary optimization," 3rd Workshop on Uncertainty Quantification in Computational Fluid Dynamics, Paris, France, May 2015.
15. Leotardi C., Diez M., Serani A., Iemma U., Campana E.F., "Efficient simulation-based design optimization for fluid-structure interaction problems affected by uncertainty," (extended abstract only) 17th U.S. National Congress on Theoretical and Applied Mechanics, Michigan State University, June 2014

16. Leotardi C., Diez M., Serani A., lemma U., Campana E.F., "A framework for efficient simulation-based multidisciplinary robust design optimization with application to a keel fin of a racing sailboat," OPT-i 2014, 1st International Conference on Engineering and Applied Sciences Optimization, Kos Island, Greece, June 2014.
17. Serani A., Diez M., Leotardi C., Peri D., Fasano G., lemma U., Campana E.F., "On the use of synchronous and asynchronous single-objective deterministic particle swarm optimization in ship design problems," OPT-i 2014, 1st International Conference on Engineering and Applied Sciences Optimization, Kos Island, Greece, June 2014.
18. Janssens K., Dubail P., Thirard C., Leotardi C., lemma U., Mårki F., Bisping R., Bauer M., "Synthesis of aircraft noise operations," In: Proceedings of INTERNOISE – Noise and Control for Quality of Life – Internoise 2013, Innsbruck September 2013.
19. lemma U., Diez M., Leotardi C., Centracchio F., "Decision making based on community noise annoyance in the multi-objective optimization of a commercial aircraft," Twentieth International Congress on Sound and Vibration, Bangkok, Thailand, July 2013.
20. Diez M., Leotardi C., lemma U., "Identification of the mass distribution of a vibrating system through an output-only modal identification technique," Noise and Vibration: Emerging Methods, NOVEM 2012, Sorrento, Italy, April 2012. In: INTER-NOISE and NOISE-CON Congress and Conference Proceedings, Vol. 244, pp. 468-479, 2012.
21. lemma U., Diez M., Leotardi C., Centracchio F., "Multi-objective, multi-disciplinary optimization of take-off and landing procedures to minimize the environmental impact of commercial aircraft: the noise vs. fuel consumption trade-off within the EC project COSMA," Nineteenth International Congress on Sound and Vibration - ICSV19, Vilnius, Lithuania, 2012.
22. lemma U., Diez M., Leotardi C., Centracchio F., "On the use of noise annoyance as a design optimization constraint: the COSMA experience," Eighteenth International Congress on Sound and Vibration, ICSV18, Rio de Janeiro, Brazil, 2011.
23. Morino L., Leotardi C., Camussi R., "Power-spectral-density transfer function from boundary–pressure to field–pressure," 16th AIAA/CEAS Aeroacoustics Conference, AIAA Paper 2010-3993.
24. Diez M., Leotardi C., lemma U., "Aeroelastic issues in multidisciplinary design optimization for aircraft configurations," International Forum in Aeroelasticity and Structural Dynamics, IFASD 2009, Seattle, US, 2009.
25. Diez M., Leotardi C., "Modal Identification of an aeroelastic system using an extended Karhunen-Loève decomposition", Flow-Induced Vibration – FIV, Prague, Czech Republic, 2008.
26. Diez M., Burghignoli L., Leotardi C., Sargentini A., "A multi-fidelity formulation for multidisciplinary design optimization of aircraft configurations", (extended abstract) 8th World Congress on Computational Mechanics – WCCM8, 5th European Congress on Computational Methods in Applied Sciences and Engineering – ECCOMAS, Venice, Italy, 2008.

TECHNICAL REPORTS AND PROJECT DELIVERABLES

1. Leotardi C., Campana E.F., "Report on innovative basic designs of RRVs – Part 2," Project Deliverable EUROFLEETS2 D11.5, February 2017.
2. Florescu S., Oaie G., Pougnet C., Mermier L., Lips U., Leotardi C., "Report on innovative basic designs of RRVs – Part 1," Project Deliverable EUROFLEETS2 D11.4, December 2016.
3. Leotardi C., Campana E.F., "Guidelines and recommendations for ship design on bubble sweep-down avoidance," Project Deliverable EUROFLEETS2 D11.3, November 2016.
4. Leotardi C., Campana E.F., Diez M., "Particle Swarm Optimization of an Unmanned Surface Vehicle for research activities," CNR- INSEAN Technical Report 2015-TR-017, December 2015.
5. Leotardi C., Campana E.F., Diez M., "Design optimization of an Unmanned Surface Vehicle for research activities using potential flow computations," CNR- INSEAN Technical Report 2015-TR-009, July 2015.
6. Leotardi C., Diez M., Bellotto F., "Performance analysis for EXPLORER-type hulls with parametric geometry modifications," CNR-INSEAN Technical report 2014-TR-012, October 2014.
7. Diez M., Serani A., Leotardi C., Peri D., Fasano G., Iemma U., Campana E.F., "Development of parallel-architecture optimization algorithms," RITMARE Project, SP1, Project Deliverable SP1_WP2_AZ3_UO08_D03, 2014.
8. Leotardi C., Bellotto F., Diez M., "Parametric analysis of performance (resistance and seakeeping) for diverse fishing-vessel hulls," RITMARE Project, SP2, Project Deliverable SP2_WP3_AZ1_UO03_D02, 2014.
9. Peri D., Leotardi C., "Evaluation of propulsion power for the baseline fishing vessel (Calcolo della potenza propulsiva per il peschereccio base)", RITMARE Project, SP2, Project Deliverable SP2_WP3_AZ1_UO03_D01b, 22 July 2013.
10. Leotardi C., Diez M., Iemma U., "Results of design optimization for future scenario," Project Deliverable COSMA D5.8, December 2012.
11. Diez M., Leotardi C., Iemma U., "Results of the design optimisation for current scenarios," Project Deliverable COSMA D5.7, November 2012.
12. Diez M., Leotardi C., Iemma U., "Results of the optimisation of procedures for current scenarios," Project Deliverable COSMA D5.6, November 2012.
13. Diez M., Leotardi C., Iemma U., "Results of the single-event optimisation procedure Results of the single-event optimisation procedure in terms of EPNL at the certification points, noise footprints, and Iss maps," Project Deliverable COSMA D5.3, October 2012.
14. Leotardi C., Diez M., Iemma U., "Definition of the optimization criteria for the multiple-events scenario in terms of objective function," Project Deliverable COSMA D5.4, September 2010.
15. Iemma U., Paonessa A., Leotardi C., "Definition of the operational limits related to airworthiness and passengers' comfort," Project Deliverable COSMA D5.2, April 2010.
16. Iemma U., Leotardi C., Diez M., "Definition of the operational limits imposed by the relevant regulation, to be included as optimization constraints," Project Deliverable COSMA D5.1, 15 September 2009.
17. Iemma, U., Diez M., Burghignoli L., Leotardi C., "Leonardo da Vinci Fiumicino Airport – acoustic impact prediction for new generation aircraft in the 2040 technological horizon" Technical Report, Mechanical and Industrial Engineering Dept., University of Roma Tre, 2009.

GRANTS

- Grant for tutoring activity – Roma Tre University – Engineering Department 2009/10.
- Grant for cooperation activity – Roma Tre University, Engineering and Industrial Department – 2004/05, 2005/06.

TEACHING EXPERIENCE

Graduate teaching Assistant (including exams) :

- Rational Mechanics 2008/09 – 2009/10 – 2010/11 – 2011/12 – 2012/13.
- Mathematical Physics (then re-named Modeling and optimization in Aeronautics, then Modeling in Aeronautics) 2008/09 – 2009/10 – 2010/11 – 2011/12 – 2012/13.
- Applied Aeroelasticity 2008/09 – 2009/10 – 2010/11.

ACADEMIC ADVISING EXPERIENCES

MSc Students

1. Francesco Centracchio, 2011, "Modelli per l'ottimizzazione di scenari aeroportuali orientata alla riduzione dell'impatto ambientale acustico", correlatore di tesi con il Prof. Umberto lemma e l'Ing. Matteo Diez.
2. Claudio Giannobile, 2010, "Modelli per l'ottimizzazione di procedure per l'atterraggio e il decollo a basso impatto ambientale", correlatore di tesi con il Prof. Umberto lemma e l'Ing. Matteo Diez.
3. Simone Olivetti, 2010, "Dallo spettro della pressione acustica sulla superficie a quello nel campo", correlatore di tesi con il Prof. Luigi Morino.
4. Simone Menicucci, 2009, "Analisi non stazionaria dei carichi di ipersostentazione", correlatore di tesi con il Prof. Umberto lemma.
5. Paolo Gradassi, 2009, "Sul rumore generato dalla vorticità", correlatore di tesi con Prof. Luigi Morino.
6. Emanuele Di Benedetti, 2009, "Rappresentazione parametrica di configurazioni tipo Blended Wing Body mediante superfici di Coons", correlatore di tesi con il Prof. Umberto lemma.

BSc Students

1. Manuel Turi, 2012, "Confronto di impronte acustiche relative a manovre di decollo orientate alla validazione di modelli di meccanica del volo ed aeroacustica", correlatore con il Prof. Umberto lemma.
2. Andrea Ferretti, 2012, "Caratterizzazione sperimentale di una struttura monodimensionale", correlatore con il Prof. Umberto lemma.
3. Roberto Montefredini, 2012, "Stabilità di una sospensione di una vettura da corsa", correlatore con il Prof. Umberto lemma.
4. Francesco Orsini, 2012, "Analisi e confronto di procedure di decollo a basso impatto ambientale per velivoli a corto e medio raggio", correlatore con il Prof. Umberto lemma.
5. Alberto Nurzia, 2011, "Modellazione di turbofan per l'ottimizzazione di velivoli sotto vincoli ambientali", correlatore con il Prof. Umberto lemma e l'Ing. Fulvio Palmieri.
6. Riccardo Ricci, 2011, "Produzione di una base di dati per la caratterizzazione dell'impatto acustico dell'aviazione civile sulla comunità residenziale", correlatore con il Prof. Umberto lemma.

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

- Reading
- Writing
- Speaking

- Reading
- Writing
- Speaking

ITALIANO

INGLESE

WORKING PROFICIENCY

GOOD

GOOD

FRANCESE

GOOD

WORKING ELEMENTARY

GOOD

**INFORMATION TECHNOLOGY SKILLS
AND COMPETENCES**

Microsoft Office (Word, Powerpoint, Excel), OpenOffice, LaTeX
Programming languages: FORTRAN90 and subsequent, C.
Analysis, calculation and visualization tools as Matlab, Scilab, Matematica, Tecplot, Paraview, Gnuplot.
Commercial simulation tools as COMSOL Multiphysics
Academic simulation tools as Aegir (Navatek), WARP (CNR-INSEAN)
CAD/CAE software for grid generation as Rhinoceros, Gridgen, Pointwise
High Performance Computing classes at CASPUR.