

Francesco Saltari

Ph.D candidate
Aeronautical Engineering

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Nationality: Italian

Work experience

Feb. 2018 – Jul. 2018 **Technical consulting, MSC.Software, Rome.**

Objectives *Teaching on aeroelastic flutter solutions concerning application cases of interest. (P. I. Eng. Marco Calcagni)*

Nov. 2016 – Feb. 2017 **Technical consulting, University of Naples Federico II, Naples.**

Objectives *Developing a software for the simplified modelling of the structural layout of transport aircraft wings for aeroelastic analyses to be used in the preliminary aircraft design. (P. I. Prof. Fabrizio Nicolosi)*

Education

nov. 2015 – Present **Ph.D fellowship in Aerospace Engineering, Sapienza University of Rome & CNR-INM (Institute of Marine Engineering), Rome.**

Main research interests → Virtual sensing applied to ships and flexible aircrafts.
→ Integrated models of aeroelasticity and flight dynamics.

Thesis *Methodologies for Virtual sensing applied to aeronautical and ship structures (Supervisors PhD Daniele Dessi and Prof. Franco Mastroddi)*

Abroad Experience Visiting scholar at University of Michigan, Ann Arbor, MI, USA, *Naval Architecture and Marine Engineering Department.* (Supervisor Prof. Matthew Collette)
mar. 2018 – jun. 2018

oct. 2013 – oct. 2015 **Master Degree in Aeronautical Engineering, Sapienza University of Rome, Rome.**

Notes average: 29.25/30
Graduation note: 110/110 cum laude

Thesis *A dynamically coupled model for maneuvering flexible aircraft (Supervisor Prof. Franco Mastroddi)*

Honors → *Excellent graduate student award from the Alumni Noi Sapienza Association – 2015* ☑
→ Participation to the *Excellence program*
→ Participation to *AIAA-PEGASUS student conference – Valencia 2016* ☑

oct. 2010 – nov. 2013 **Bachelor Degree in Aerospace Engineering, Sapienza University of Rome, Rome.**

Notes average: 27.16/30
Graduation note: 110/110

Thesis *Bending modes in ionic polymer-metal composite induced by non homogeneous distribution of electric potential (Supervisor Prof. Paola Nardinocchi)*

Languages

Italian **Mother tongue**
English **Intermediate**

Personal skills

- Job-related skills
- Striving to achieve the set goal, patient and willing
 - Excellent problem solving attitude
 - Brilliant in using the strong theoretical background in the practical work
 - Wishful to work in team

Technical skills

- Main computational tools
- MSC Nastran & Patran (good knowledge of DMAP)
 - MATLAB & Simulink
- Engineering skills
- Structural dynamics/Aeroelasticity experience
 - Fluid/structure interaction experimental and numerical experience
 - Experience with Microsoft Office package and L^AT_EX
 - Strong FEA background
 - Advanced signal processing skills
 - Skilled in programming and simulations
 - Able to manage structural experimental tests
 - Expert in integration of numerical and experimental models
 - Good knowledge of optimization processes
 - Expert in integrated modelling of aeroelasticity and flight dynamics
 - Expert in virtual sensing and data fusion
 - Experience in conducting experiments in INM ship model basin

Publications

- Journals
- Saltari, F., Riso, C., De Matteis, G., & Mastroddi, F. (2017). Finite-element-based modeling for flight dynamics and aeroelasticity of flexible aircraft. *Journal of Aircraft*, 54(6), 2350-2366.
- Conferences
- Dessi, D., Faiella, E., Saltari, F., Pigna, C., Celli, C., Miliante, T., & Di Paolo, E. (2017). Experimental analysis of the station keeping response of a double-barge float-over system with an elastically scaled physical model. Paper presented at the Proceedings of the *International Offshore and Polar Engineering Conference*, 1175-1182.
 - Conti, E., Saltari, F., Eugeni, M., Camerini, V., & Coppotelli, G. (2017). Modal parameter estimate of time-varying system using operational modal analysis based on hilbert transform. Paper presented at the *17th International Forum on Aeroelasticity and Structural Dynamics, IFASD 2017*, 489-502.
 - Saltari, F., Mastroddi, F., Riso, C., De Matteis, G., & Colaianni, S. (2017). On the control of aeroelastic/flight dynamic integrated stability of maneuvering aircraft. Paper presented at the *17th International Forum on Aeroelasticity and Structural Dynamics, IFASD 2017*, 1971-1986.
 - Eugeni, M., Saltari, F., Coppotelli, G., & Dessi, D. (2017). A method for the estimate of modal parameters of time-dependent aerospace structural systems using operational data. Paper presented at the *IOMAC 2017 - 7th International Operational Modal Analysis Conference*, 78-81.
 - Saltari, F., Dessi, D., Faiella, E. & Mastroddi, D. (2018). Load and deflection estimation of a fast catamaran towing tank model via reduced order modeling and optimal natural observer. Paper presented at *ISMA 2018 - International Conference on Noise and Vibration Engineering*, 3495-3509

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