Curriculum Vitae

Matteo Mancinelli, Ph.D.

Employment History

2022 – Present	Researcher (RTDa) , Department of Civil Computer Science and Aeronautical Technologies Engineering, Università degli Studi Roma Tre, Rome, Italy.
2020 – 2022	Researcher , Centre National de la Recherche Scientifique, Institut Pprime (Départe- ment Fluides Thermique et Combustion), Poitiers, France.
2019 – 2020	Post-doctoral research fellow , Université de Poitiers, Institut Pprime (Département Fluides Thermique et Combustion), Poitiers, France.
2017 - 2019	Post-doctoral research fellow , Centre National d'Études Spatiales, Institut Pprime (Département Fluides Thermique et Combustion), Poitiers, France.
2017	Post-doctoral research fellow , Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.
2014 – 2017	Ph.D. student , Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.
2013	Continuous and coordinated contractual relationship , Development of time- frequency analysis techniques based on wavelet transform for data processing inturbulent jets, Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.
2012 - 2013	Intern , Department of Acoustics and Environment, Airbus Operations S.A.S., Toulouse, France.

Education & Training

2017 - 2018	Hydrodynamic stability , École Nationale Supérieure de Mécanique et Aérotechnique, Poitiers, France.
2014 – 2016	Ph.D., Mechanical and Industrial Engineering <i>cum laude</i> , Department of Engineering, Università degli Studi Roma Tre. Thesis title: <i>Experimental investigation of compressible and incompressible jet aeroacoustics in free and installed configurations through advanced time-frequency analysis.</i>
2010 – 2013	Master Science, Aeronautical Engineering cum laude, Department of Engineering, Università degli Studi Roma Tre. Thesis title: Jet aeroacoustics: analysis of large-scale EXEJET2 experimental tests including pylon and wing model effects.
2006 – 2010	Bachelor Science, Mechanical and Industrial Engineering , Department of Engineering, Università degli Studi Roma Tre. Thesis title: <i>Aerodynamic characterisation of a low-speed jet.</i>

Research Publications

Journal Articles

M. Mancinelli, P. Jordan, and A. Lebedev, "Real-time estimation of jet-surface interaction noise," *Flow, Turbulence and Combustion*, pp. 1–21, 2023.

2 M. Mancinelli, E. Martini, V. Jaunet, P. Jordan, A. Towne, and Y. Gervais, "Reflection and transmission of a kelvin–helmholtz wave incident on a shock in a jet," *Journal of Fluid Mechanics*, vol. 954, A9, 2023.

M. N. Stavropoulos, M. Mancinelli, P. Jordan, *et al.*, "The axisymmetric screech tones of round twin jets examined via linear stability theory," *Journal of Fluid Mechanics*, vol. 965, A11, 2023.



Conference Proceedings



M. Mancinelli, T. Pagliaroli, A. Di Marco, R. Camussi, T. Castelain, and O. Leon, "Hydrodynamic and acoustic wavelet-based separation of the near-field pressure of a compressible jet," in *22nd AIAA/CEAS Aeroacoustics Conference*, 2016, p. 2864.



18

T. Pagliaroli, M. Mancinelli, R. Camussi, and G. Troiani, "Aeroacoustic study of a slotted burner," in *22nd AIAA/CEAS Aeroacoustics Conference*, 2016, p. 2829.

Teaching activity

2022 – Present	Lecturer, Thermofluid-dynamics of propulsive systems, M. Sc. in Aeronautical Engi- neering, Department of Civil Computer Science and Aeronautical Technologies Engi- neering, Università degli Studi Roma Tre, Rome, Italy.
	Lecturer, Jet noise, Ph.D. in Methodologies and Models for Sustainable Engineering, Department of Civil Computer Science and Aeronautical Technologies Engineering, Università degli Studi Roma Tre, Rome, Italy.
	Co-supervisor , 2 Ph.D. students, Department of Civil Computer Science and Aero- nautical Technologies Engineering, Università degli Studi Roma Tre, Rome, Italy.
	Supervisor , 2 B. Sc. students, Department of Civil Computer Science and Aeronauti- cal Technologies Engineering, Università degli Studi Roma Tre, Rome, Italy.
2014 – Present	Supervisor , 9 M. Sc. students, Department of Civil Computer Science and Aeronau- tical Technologies Engineering, Università degli Studi Roma Tre, Rome, Italy.
	Co-supervisor , 3 M. Sc. students, Department of Civil Computer Science and Aero- nautical Technologies Engineering, Università degli Studi Roma Tre, Rome, Italy.
	Co-supervisor , 11 B. Sc. students, Department of Civil Computer Science and Aero- nautical Technologies Engineering, Università degli Studi Roma Tre, Rome, Italy.
2016 – 2017	Assistant lecturer, Laboratory of Aeronautics, B. Sc. in Mechanical and Industrial Engineering, Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.
2014 – 2017	Assistant lecturer, Aerodynamics, M. Sc. in Aeronautical Engineering, Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.
	Assistant lecturer, Thermofluid-dynamics of propulsive systems, M. Sc. in Aeronau- tical Engineering, Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.
	Assistant lecturer, Laboratory of Aerodynamics and Aeroacoustics, M. Sc. in Aero- nautical Engineering, Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.

Miscellaneous Experience

Certifications

2021-Present



Associate professor qualification, France.

Work experience

- Continuous and coordinated contractual relationship, Support to data analysis and writing of the final deliverable of FP7 EU project EASIER (JTICS-2013-02-GRA-05-008), Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.
- 2015 Continuous and coordinated contractual relationship, Support to the business management and scientific report write-up of FP7 EU project AEROTRANET2 (FP7-PEOPLE-2012-ITN), Department of Engineering, Università degli Studi Roma Tre, Rome, Italy.

Miscellaneous Experience (continued)

Awards and Achievements **Research fellowship**, Direction des Lanceurs, Centre National d'Études Spatiales, 2017 Paris, France. **Best Paper and presentation award**, EURONOISE Conference, European Acoustic 2015 Association, Maastricht, Netherlands, 2015. International conference organisation and chairmanship **Chairperson and organiser**, SIG39 ERCOFTAC conference "Coherent structures in 2024 aeroacoustics", Rome, Italy **Organisation committee**, 30th AIAA/CEAS Aeroacoustics Conference, Rome, Italy. **Chairman and organiser**, Jet-noise session, FORUM ACUSTICUM Conference, 2023 Turin, Italy. **Chairman**, Jet-noise session, 28th AIAA/CEAS Aeroacoustics Conference, Southamp-2022 ton, UK. Chairman, Jet-noise session, 25th AIAA/CEAS Aeroacoustics Conference, Delft, 2019 Netherlands. Visiting researcher **Institut Pprime**, Poitiers, France. 2023 **Von Karman Institute for Fluid Dynamics**, Bruxelles, Belgium. Participation to EU research projects **ENODISE**, Horizon 2020 grant agreement No. 860103. 2022-Present 2020-2023 **DJINN**, Horizon 2020 grant Agreement No. 861438. **JERONIMO**, ACP2-GA-2012-314692. 2014-2017 **Reviewing activity** 2017-Present Reviewer, Journal of Fluid Mechanics, European Journal of Mechanics B/Fluids, Physical Review Fluids, Physics of Fluids, Journal of Propulsion and Power, AIAA Journal, Experiments in Fluids, Flow Turbulence and Combustion. Skills Languages **Italian**, Mother tongue. English, listening C1, reading C1, writing C1, spoken production C1, spoken interaction C1. French, listening C1, reading C1, writing C1, spoken production C1, spoken interaction C1.

Digital 📕 Matlab, Large Microsoft Office.

B.

Driving license

Supervision Communication

- Co-supervisor of two Ph.D. students, supervisor of M.Sc. and B.Sc. students .
- **Speaker**/presenter to international conferences and EU project meetings.