

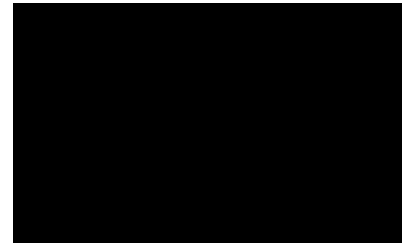
PERSONAL INFORMATION

Family name, First name: Avallone Francesco

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• EDUCATION

- 2015 PhD
Dipartimento di Ingegneria Aerospaziale, Università degli Studi di Napoli Federico II,
Italy
Prof. Gennaro Cardone
- 2011 MSc in Aerospace Engineering (Laurea Specialistica in Ingegneria Aerospaziale)
Dipartimento di Ingegneria Aerospaziale, Università degli Studi di Napoli Federico II,
Italy
- 2009 BSc in Aerospace Engineering (Laurea Triennale in Ingegneria Aerospaziale)
Dipartimento di Ingegneria Aerospaziale, Università degli Studi di Napoli Federico II,
Italy

• CURRENT POSITION(S)

- 2023 – Present Full Professor
Department of Mechanical and Aerospace Engineering (DIMEAS), Politecnico di Torino,
Italy
- 2023 – Present Guest Researchers
Faculty of Aerospace Engineering, FPT Dept., Delft University of Technology, The
Netherlands
- 2022 – Present Co-founder at MuTech
Delft, The Netherlands.

• PREVIOUS POSITIONS

- 2022 – 2023 Assistant Professor – RTDb
Department of Mechanical and Aerospace Engineering (DIMEAS), Politecnico di Torino,
Italy
- 2017 – 2022 Assistant Professor – Tenured
Faculty of Aerospace Engineering, FPT Dept., Delft University of Technology, The
Netherlands
- 2015 – 2017 PostDoc
Faculty of Aerospace Engineering, AWEF Dept., Delft University of Technology, The
Netherlands

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2017 – Present 3 PostDoc
5 graduated PhD as co-promotor

Co-promotor of 12 PhD candidate

Supervisor of >15 MSc students

at Faculty of Aerospace Engineering, FPT Dept., Delft University of Technology, The Netherlands and DIMEAS, Politecnico di Torino, Italy

- **TEACHING ACTIVITIES**

- 2023 – Present Responsible Instructor – Aerodinamica, BSc course, Politecnico di Torino, Italy
- 2022 – 2023 Co-Instructor – Aerodinamica Instazionaria ed Aeroelasticità, MSc course, Politecnico di Torino, Italy
- 2018 – 2022 Co-Instructor – Fundamentals of Aeroacoustics, MSc course, Delft University of Technology, The Netherlands
- 2019 – 2022 Co-Instructor – Basics of Aeroacoustics for Wind Energy, BSc course, Delft University of Technology, The Netherlands
- 2012 – 2015 Teaching Assistant – Gasdinamica, MSc course, Università degli Studi di Napoli Federico II, Italy

- **INVITED TALKS**

- 2024 Invited Speaker Webinar for the UK Acoustics Network. Flow-acoustic interaction over an acoustic liner: a physical description. January 31st, online.
- 2023 Keynote speaker - Post-processing methods to extract the acoustic-induced velocity within the orifice of a conventional acoustic liners grazed by a turbulent flow and acoustic wave. CFC2023, 25-28 April, Cannes, France.
- 2022 (Aero)Acoustics Challenges in Future Smart Cities. 29 August 2022. 12th Ibero-American Acoustic Conference. Florianapolis, Brazil.
- 2019 Numerical investigation of noise sources and noise mitigation strategies for Ultra High Bypass Ratio engines, 4 November 2019, National Institute of Aerospace Computational Fluid Dynamics Seminar, Hampton, Virginia, USA
<https://www.nianet.org/seminars/noise-sources-mitigation-strategies-ultra-high-bypass-ratio-engines/>
- 2017 Rotor/stator interaction noise mitigation with wavy leading edge, 5-6 October 2017, ERCOFTAC Autumn Festival, Delft, The Netherlands
https://www.ercoftac.org/events/ercoftac_autumn_festival_and_da_vinci_cometition_5th_6th_october_2017/

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2023 Feri Farassat Memorial Symposium, Capri, Italy, Organizing Committee
- 2022 Workshop on metamaterials, Napoli, Organizing Committee
- 2022 DICUAM 2022, Delft (The Netherlands) and online, Organizing Committee
- 2021 Workshop on high-fidelity simulations for acoustic liner, online, Principal Organizer
- 2021 DICUAM 2021, online conference, Organizing Committee
- 2020 Noise Reduction Technologies with Meta-materials, Leiden, The Netherlands, Scientific Organizer
- 2018 Leader of the Category IX – BANC series of workshop

- **INSTITUTIONAL RESPONSIBILITIES**

- 2023 – Present Member Giunta DIMEAS Dept., Politecnico di Torino, Italy
- 2021 – 2022 Profile Leader, EWEM and WE MSc track, Delft University of Technology, The Netherlands
- 2020 – 2022 Coordinator of the Department HPC users, Delft University of Technology, The Netherlands

- **REVIEWING ACTIVITIES**

- 2023 Expert Evaluator National Science Center Poland
- 2022 Expert Evaluator NWO van Gogh call
- 2020 Expert evaluator for Clean Sky 2, Joint Undertaking
- 2018 – Present Editorial Board for Wind Energy, Wiley
- 2017 – Present Reviewer for the main scientific journals in the field (JFM, JSV, PoF, AIAA J, Wind Energy, Renewable Energy, Applied Acoustics, ...)
- 2017 Expert evaluator for ANR (French National Research Agency)

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2022 2023 Board Member of the Delft Young Academy
- 2012 – Present AIAA Member
- 2023– Present Fellow of European Young Academy

- **NATIONAL AND INTERNATIONAL PROJECTS**

- 2023 – Co-applicant of the NWO – OTP project AMPERE (consortium agreement to be signed).
- 2023 – PI of the ERASMUS MA2 project (grant agreement 101128001).
- 2022 – PI of the project ERC Starting Grant – LINING (grant Agreement 101075903).
- 2022 – Principal applicant for TU Delft of the Clean Aviation granted proposal HERWINGT. Invited to participate to the hearing session. WP Level 2 leader.
- 2022 – Holi-DOCTOR (NWO, grant number KICH1.ED02.20.004)
- 2022 – Co-PI of the project SE2A project. Physics of broadband noise of sound sources from installed propulsors. Granted and grant agreement under signature.
- 2021 – 2023 PI of the project OAI-AARCD-22671 supported by Aeroacoustics Research Consortium (AARC) (<https://oai.org/aeroacoustics/>).
- 2021 – X-ROTOR (X-shaped Radical Offshore wind Turbine for Overall cost of energy Reduction, grant number 101007135).
- 2020 – 2021 PI of the project OAI-AARCD-20159 supported by Aeroacoustics Research Consortium (AARC) (<https://oai.org/aeroacoustics/>)
- 2020 – INVENTOR (INnoVative dEsign of iNstalled airframe componenTs for aircraft nOise Reduction, grant number 860538).
- 2020 – SMART ROTOR European Regional Development Found (EFRO, grant number SA.59824 (2020/X)).
- 2020 – ENODISE (Enabling Optimized Disruptive Airframe-Propulsion integration concepts, grant number 860103).

- 2019 – 2023 ETN - Zephyr (Towards a more efficient exploitation of on-shore and urban wind energy resources, grant number 860101).
- 2019 – 2023 FUTPRINT50 (Future propulsion and integration: towards a hybrid-electric 50-seat regional aircraft, grant number 875551).
- 2018 – 2022 THAMES (Towards High-Reynolds Airfoil self-noise MEasurementS) project, grant number 15215).
- 2017 – 2021 Co-PI of the project IPERMAN (Innovative Permeable Material for Noise Reduction in Aircraft and Wind Turbine, grant number NWO 15452).
- 2017 – 2020 ETN – SMART ANSWER (Smart mitigation of flow-induced acoustic radiation and transmission for reduced aircraft, surface transport, workplaces and wind energy noise, grant number 722401).

- **FELLOWSHIPS AND AWARDS**

- 2012 – 2015 Scholarship for PhD, Dipartimento di Ingegneria Aerospaziale, Università degli Studi di Napoli Federico II, Italy
- 2014 Scholarship “Star Linea 2” selected project: “Hyper-TOMO” to perform research abroad, Università’ degli Studi di Napoli Federico II, Italy

- **PATENTS**

- 2022 – Luesutthiviboon, S., Rego, L., Ragni, D., Avallone, F., Snellen, M., van der Zwaag, S. & Casalino, D., 2020, IPC No. B64D, B64C, Priority date 31 Mar 2022, Priority No. WO 2022/066001
- 2020 – Ragni, D., van der Zwaag, S., Avallone, F., Rubio Carpio, A. & Snellen, M., 2021, IPC No. F03D, Priority date 15 Jun 2020, Priority No. WO 2021/256920
- 2020 – Hedayati, R., Casalino, D., Ragni, D., van der Zwaag, S. & Avallone, F., 2020, IPC No. B32B, F02K, G10K, F02C, Priority date 1 Nov 2018, Priority No. NL 2021916

- **ADDITIONAL ACTIVITIES**

- 2021 – Co-founder Mutech developer of the product Muteskin (www.muteskin.eu)