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##### Current Role

Carlo Alberto Niccolini is a research fellow of the Thermochemical Power Group (TPG) of the University of Genoa. He joined TPG as PhD student in 2018. PhD main research fields: fluid film bearings and compressor surge in open loop systems (microturbines, turbochargers) and heat pumps equipped with dynamic compressors. He is currently a researcher in the field of innovative energy systems. Postdoc main research interests involve power-to-X processes for hydrogen based e-fuel synthesis and PCM-based latent heat thermal energy storage systems.

##### Education

* PhD in Mechanical, Energy and Management Engineering – University of Genoa.
* MS in Mechanical Engineering with specialization in Energy and Aeronautics – University of Genoa.
* BS in Mechanical Engineering – University of Genoa.

##### Teaching and Lectures

* Lecturer in ETN-INSPIRE PhD school about compressor surge detection (25-27 October 2023).
* Invited speaker at a seminar on advanced time-frequency analysis for turbomachinery transient analysis (6 May 2024) for NTNU (Norway).

##### Research Activities and Results

* About 30 scientific papers, most of them published at international conferences and journals, with about 135 citations.
* Active role in EU funded projects (USES4HEAT, THUMBS-UP, LOLABAT) and various national projects, including PNRR-NEST.
* Co-author of 1 patent about compressor surge detection with foreign co-authors.