



## OPEN TALK

**Matteo Corbetta** is a Research Engineer with KBR, Inc. at NASA Ames Research Center, Calif.

# “I have Ph.D. in Mechanical Engineering”

December 14<sup>th</sup>,  
2021  
18:00 - 19:15 pm

Only in remote at:

<https://politecnico.milano.webex.com/join/andrea.manes>

## Abstract

The PhD programs started at Politecnico di Milano in 1984; to this date, more than 4000 PhD titles have been awarded by the university, in disciplines of engineering, architecture, and design.

The PhD degree is the highest level of university education, aimed at developing abilities of PhD candidates through training and research, as well as promoting new entrepreneurial skills. This results in a research thesis with original contributions, enabling them to take up research activities in research centers in universities and in industrial settings.

Mechanical Engineering is one of the leading and driving sectors of industrial manufacturing in Italy.

Within this scenario, pursuing a Doctoral Degree in Mechanical Engineering at Politecnico di Milano represents a key instrument to access leader enterprises in one of the most profitable sectors worldwide; it is a steppingstone to prominent positions in national and international firms devoted to research and development, innovation and design.

Aim of these open talks is to show the value of the PhD degree in an industrial context, through testimonies by individuals who have chosen to pursue a Doctoral Degree in Mechanical Engineering and now, thanks to this, have a significant and stimulating job position in industrial settings.

## Speaker short CV

“Matteo Corbetta received Bachelor of Science, Master of Science, and Ph.D. degrees in Mechanical Engineering from Politecnico di Milano (PoliMi), Italy. After the Ph.D., he spent one year working on Bayesian filters for damage prognosis as post-doctorate researcher in the Department of Mechanical Engineering at PoliMi. He then joined Siemens Wind Power, Denmark, in 2016, as a Condition Monitoring System Engineer, where he co-authored an invention disclosure on monitoring systems for wind turbine direct-drive generators (patent pending).

Since 2018, he is a Research Engineer with KBR, Inc. at NASA Ames Research Center, Calif. His research work spans modeling techniques and algorithms for degradation prediction, physics-informed machine learning, and uncertainty quantification for diagnostics and prognostics of aerospace systems.

He won two best-paper awards at international conferences in 2013 and 2016, both as first author. He is a member of the editorial board of the International Journal of Prognostics and Health Management since 2017 and has been recognized as “outstanding reviewer” from the Prognostics and Health Management Society in 2018. More recently, his project proposal “Physics-Informed Neural Networks for Next Generation Aircraft Powertrain” has been selected by NASA Ames Center Innovation Fund. The project aims at advancing physics-informed neural networks to higher TRL levels for aeronautical applications.”