

Curriculum Vitae

Davide Barater was born in Italy on August 13, 1983. He received the master's degree Magna cum Laude in Electronic Engineering in 2009 from the University of Parma, Italy.

In 2009 he won a technology transfer grant for a project entitled "INVERTER PV-TL BARATER" for the design, development and marketing of a novel PV inverter architecture, sponsored by the SPINNER 2013 consortium, Bologna.

After a parenthesis in an Italian company, he resumed the research activities joining the Industrial Automation Laboratory (MEITngLab) of the Department of Information Engineering, University of Parma, as PhD student and in 2014 he obtained PhD degree with a dissertation entitled "Active Common-Mode filter for PV Transformerless Grid-connected inverters".

From February 2014 he was at the Department of Engineering and Architecture, University of Parma, Italy, where he worked as Post-Doc researcher for two years and then as research fellow.

Since 2018 he is Assistant Professor at "Enzo Ferrari" Engineering Department of the University of Modena and Reggio Emilia.

In 2012, during the PhD, he was a visiting scholar at the PEMC group of the University of Nottingham, UK, whereas In October 2014, he was a visiting researcher at the Chair of power electronics, University of Kiel, DE.

His research area is focused on power electronics and motor drives for green transportation, wide-bandgap devices applications and electrical motor reliability.

He was co-coordinator of the European project ALEA, aimed at assessing the impact of stress factors, such as temperature, pressure, environmental conditions and electrical stresses, on the life time of the insulating system of electrical motors used in aerospace. Currently, He is the Coordinator of the European project RAISE, to evaluate the impact of the high voltage gradients, introduced by the fast commutations of new wide bandgap power devices (SiC, GaN), on the life time of electrical motor insulation systems.

Davide Barater is a reviewer for the major international journals in the field of power electronics, power converters and electric drives, and he acts as Associate Editor for the journal IEEE Transactions on Industry Applications.

Since 2015, he has been acting as Topic Chair for the international conference IEEE - Energy Conversion Congress and Exposition - ECCE, within the Industrial Drives and Electric Machines committees.

He is an expert evaluator for the European Commission for the Horizon 2020 programme in the fields of aerospace and more electric aircraft.

In March 2017 he was one of the founders of eDriveLab, a spin-off company of the University of Parma involved in vehicle electrification.

He is responsible for the student exchange programme between the University of Modena and Reggio and the University of Nottingham Ningbo China.

He holds one international patent and is the author or coauthor of more than 50 international publications, of which 16 in international journals and 40 in international conference proceedings in the field of converters, machines and electric drives.

The publications, according to source Scopus, scores a total number of citations equal to 400 with h-index calculated equal to 10 (January 2018).