

DAVIDE BIAGINI

Researcher on fatigue and damage tolerance of composite materials at TU Delft (Aerospace Structures and Materials)

PROFILE

Composite materials researcher with a Ph.D. in composite materials fatigue and damage tolerance. 5+ years' experience in material testing, structural health monitoring and non-linear FE analysis. Accustomed to operating in international research projects across aerospace and wind energy sectors.

WORK EXPERIENCE

TU Delft – Aerospace Structures & Materials Group

Post-doctoral researcher

June 2024 – current

Project: [D-Standard](#) (Horizon EU) Durability Modelling of Composite Structures with arbitrary lay-up using standardized testing and artificial intelligence

TU Delft – Aerospace Structures & Materials Group

Ph.D. Researcher

Apr 2020 – Apr 2024

Project: Investigation of fatigue after impact in carbon fiber reinforced plastics ([Thesis](#));

EDUCATION

2020-2024	Ph.D. Aerospace Engineering Delft University of Technology, Faculty of Aerospace Engineering, The Netherlands
2017-2020	MSc Aerospace Engineering University of Bologna, Italy 110/110 cum laude
2014-2017	BSc Aerospace Engineering University of Bologna, Italy

CONTRIBUTIONS TO TEST STANDARDS

CEN CWA 1718 Workshop Agreement, Materials characterization - Terminology and structured documentation, [Chada](#).

SELECTED PUBLICATIONS/CONFERENCES

Biagini, D., Pascoe, J. A., & Alderliesten, R. (2023). *Compression-after-impact failure in CFRP using acoustic emission.* **J. Composite Materials**, 57(10), 1819–1832.

Biagini, D., Pascoe, J. A., & Alderliesten, R. (2023). *Apparent plateau phases in fatigue-after-impact damage growth in CFRP via ultrasound and acoustic emission.* **Int. J. Fatigue**, 177, 107957.

Monticeli, F., **Biagini, D.**, Mosleh, Y., & Pascoe, J.-A. (2025). *Analytical model for fibre bridging in Mode I fatigue delamination in (C)FRPs.* **Compos. Part B: Eng.**, 297.

Biagini, D. (2024). Fatigue behavior of impacted carbon fiber reinforced plastics ([Doctoral dissertation](#))

Presenter: *Effect of fibre orientation on fatigue delamination growth in CFRP*, [CompTest25](#), Riga, 2025.

Presenter: *Compression after impact fatigue damage growth in CFRP – what does no-growth really mean?* [Icaf23](#), Delft, 2023.

Presenter: *'CAI fatigue testing in CFRP: is the test representing what happens in real structures?'* [CompTest23](#), Girona 2023.

Presenter: *Experimental investigation of fatigue after impact damage growth in CFRP*, [ECF22](#), Madeira, 2022