



## **Dr Marco Longana**

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## **Summary**

## **Biography**

**Doctor of Philosophy from University of Southampton (2014):**

Intermediate strain rate testing methodologies and full-field optical strain measurement techniques for composite materials characterisation

**Master of Science by Research in Nanotechnology and Microsystems from Cranfield University (2009):**

Design, Modelling and Testing of a Novel Energy Harvesting Device

**Master of Science in Material Engineering from Politecnico di Milano (2008):**

Z-Pin Pull-Out in Mode I Loading from Uni-Directional, Cross-Ply and Woven Fabric Cured Carbon Fibre / Epoxy Laminates (at Cranfield University Composite Centre)

**Bachelor of Science in Aerospace Engineering from Politecnico di Milano (2005):**

Design and Production of a Multi-Application UAV: Design and Production of the Propulsion Unit Support

## **Memberships**

### **Organisations**

[Department of Aerospace Engineering](#)

### **Other sites**

- [Aerospace](#)

### **Research Groups**

- [Advanced Composites Collaboration for Innovation and Science \(ACCIS\)](#)

## **Recent publications**

- Fotouhi, M, Fuller, J, Longana, M, Jalalvand, M & Wisnom, MR, 2019, '[The high strain rate tension behaviour of pseudo-ductile high performance thin ply composites](#)'. *Composite Structures*, vol 215., pp. 365-376
- Prato, A, Longana, M, Hussain, A & Wisnom, M, 2019, '[Post-impact behaviour of pseudo-ductile thin-ply angle-ply hybrid composites](#)'. *Materials*, vol 12.
- Tapper, R, Longana, M, Yu, H, Hamerton, I & Potter, K, 2018, '[Development of a closed-loop recycling process for discontinuous carbon fibre polypropylene composites](#)'. *Composites Part B: Engineering*, vol 146., pp. 222-231
- Finley, JM, Yu, H, Longana, ML, Pimenta, S, Shaffer, MS & Potter, KD, 2018, '[Exploring the pseudo-ductility of aligned hybrid discontinuous composites using controlled fibre-type arrangements](#)'. *Composites Part A: Applied Science and Manufacturing*, vol 107., pp. 592-606
- Na Yu, H, Longana, ML, Jalalvand, M, Wisnom, MR & Potter, KD, 2018, '[Hierarchical pseudo-ductile hybrid composites combining continuous and highly aligned discontinuous fibres](#)'. *Composites Part A: Applied Science and Manufacturing*, vol 105., pp. 40-56
- Blok, LG, Longana, ML, Yu, H & Woods, BK, 2018, '[An investigation into 3D printing of fibre reinforced thermoplastic composites](#)'. *Additive Manufacturing*, vol 22., pp. 176-186
- Czél, G, Rev, T, Jalalvand, M, Fotouhi, M, Longana, ML, Nixon-Pearson, OJ & Wisnom, MR, 2018, '[Pseudo-ductility and reduced notch sensitivity in multi-directional all-carbon/epoxy thin-ply hybrid composites](#)'. *Composites Part A: Applied Science and Manufacturing*, vol 104., pp. 151-164
- Wu, X, Fuller, J, Longana, M & Wisnom, M, 2018, '[Reduced notch sensitivity in pseudo-ductile CFRP thin ply angle-ply laminates with central 0° plies](#)'. *Composites Part A: Applied Science and Manufacturing*, vol 111., pp. 62-72
- Prato, A & Longana, M, 2018, '[A novel approach for the investigation of low energy ice impacts](#)'. *International Journal of Impact Engineering*, vol 121., pp. 12-19
- Longana, M, Ondra, V, Yu, H, Potter, K & Hamerton, I, 2018, '[Reclaimed Carbon and Flax Fibre Composites: Manufacturing and Mechanical Properties](#)'. *Recycling*, vol 3.

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