# Julián Dizy

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Born: November 11th, 1987
Nationality: Spanish
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## Education

2009-2013 **Ph.D in Aeronautics, Imperial College London**
*Homogenisation of Slender Periodic Composite Structures*
Numerical project involving a computational homogenisation technique to obtain the elastic and inertial properties of beam-like composite structures with complex cross sections and transverse reinforcements. Transverse shear, post-buckling behaviour and the use of a standard finite element package are three key aspects of this work. Supervised by Dr. Rafael Palacios N. and Dr. Silvestre T. Pinho.

2005-2009 **M.Eng (Hons) (2:1) Aeronautical Engineering, Imperial College London**
Final year project: Computational Methodologies for Time-domain Unsteady Aerodynamics on Aerofoils

09/2007-07/2008 **Cycle Ingénieur 2A (year abroad in Aeronautics) (77/100), École Nationale Supérieure d'ingénieurs de Constructions Aéronautiques (ISAE), Toulouse** Including a six month project on thermal strains of a crankcase of ligh aircraft engines, in collaboration with VIJA Engines.

2003-2005 **A-levels in Science and Engineering (9.6/10, top 1%), I.E.S. Jovellanos, Gijón, Spain**

1995-2005 **B.Mus, speciality of Piano (8.2/10), Conservatory of Gijón, Spain**

## Awards and grants

2013 **Astrium Award for Best Student Paper, Fifth European Conference for AeroSpace Sciences**

2012 **Lockheed Martin Award for Best Student Paper, 53rd American Institute of Aeronautics and Astronautics Structures, Structural Dynamics & Materials conference**

2012 **Speaker's Travel Grant, Royal Aeronautical Society**

2012 **Travel Grant, Imperial College Trust**

2012 **Travel Grant, Old Centralians' Trust**

2009 **Fundesfor Scholarship for postgraduate education**

## Work Experience

2009-2013 **Graduate Teaching Assistant, Imperial College London**
·*Lab demonstration*: Uniaxial Compression of UD Composites (M.Sc), Shear Centre & Principal Axis and Strain Measurement
·*Course assessment*: Computational Mechanics, Structural Dynamics, Finite Elements and Linux
·*Course tutor*: Mechanics, Computing, Computer-aided design

## Skills

Languages: English: Fluent. Spanish: Native. French: Fluent

Computer: Python, Matlab, Fortran. Linux, LaTeX, Adobe Illustrator, Microsoft Windows and Office
Very good knowledge of computer hardware, system administration and fault repair

Technical: Finite Element Analysis: automatic model generation, dynamic simulation. Packages: Abaqus, Nastran, LSDyna.
Carbon Fibre/Epoxy laminate specimens manufacturing and testing

## Interests and Achievements

Publications: ·Dizy et al. *Homogenisation of Slender Periodic Composite structures*, International Journal of Solids and Structures 50 (9), 1473-1481, 2013
·Dizy et al. *Shear effects in the Homogenisation of Slender Composite Wings*, Proceedings of 5th European Conference for AeroSpace Sciences, Munich, July 2013
·Dizy et al. *Homogenization of Slender periodic composite structures*, Proceedings of 53rd AIAA Structures, Structural Dynamics, and Materials Conference, Honolulu, Hawaii, 2012

Technological: Creation of 12 high-performing Bitcoin mining rigs (18GH/s) with 285% ROI in 1 year

Sports: Basketball (national competitions), karting (French National Cup)

Add. Info: Piano Recitals in churches and theatres. B Driving License. International travel experience

References available upon request