

Dr. Almudena Majano-Majano (**Spain**)

Technical University of Madrid

Madrid, Spain

[almudena.majano\(at\)upm.es](mailto:almudena.majano(at)upm.es)

COST FP1402, STSM Candidate



Personal

Years of experience in relevant field: 4
Expertise: modelling of timber joints, modelling of timber structures, fracture mechanics, wood characterization, digital image correlation.

Degree: PhD (10/02/2015)

Organisation

Building Structures Department - Faculty of Architecture (<http://etsamadrid.aq.upm.es/>)
Focus: theoretical and practical research / innovation, design of structures and education/training.
Facilities: Testing lab, mechanical testing facilities (including uniaxial testing machines up to 60 tn, optical full-field measurement device), conditioning chamber.

No. of staff	PhD students	MSc/year
2	2	20

Research projects

2016-2019. "Analysis of the stress relaxation in curved members and new joints solutions for timber Gridshells made out of Eucalyptus globulus" (BIA2015-64491-P). National I+D Project financed by the Spanish Economy and Competitiveness Ministry. People involved: 11.

2015-2018. "Influence of physical and geometrical factors in the evaluation of existing timber structures by non-destructive techniques" (BIA2014-55089-P). National I+D Project financed by the Spanish Economy and Competitiveness Ministry. People involved: 8.

2016-2020. "Life Lugo + Biodinámico" (Project Number-Life14CCA/ES/000489). LIFE Program financed by European Union.

Publications

WG 1:

- Xavier J., Majano-Majano A., Fernandez-Cabo J.L. (2016) On the identifiability of stiffness components of clear wood from a 3D off-axes prismatic specimen: angle orientation and friction effects. European Journal of Wood and Wood Products, 74(3): 285-290.

- Majano-Majano A, Fernandez-Cabo J.L, Hoheisel S, Klein M. (2012) A Test Method for Characterizing Clear Wood Using a Single Specimen. Experimental Mechanics, 52: 1079-1096.

- Majano-Majano A, Hughes M, Fernandez-Cabo J.L. (2012) The fracture toughness and properties of thermally modified beech and ash at different moisture contents. Wood Science and Technology, 46: 5-21.

- Fernandez-Cabo J.L., Widmann R., Arce-Blanco M., Crocetti R., Xavier J., Majano-Majano A. (2015) Assessment of wire-frame analysis models of a historical planked timber arch. ICE- Proceedings of the Institution of Civil Engineers. Structures and Buildings, 168(SB9): 680-694.

WG 4:

- Fernandez-Cabo J.L, Arriaga Martitegui F, Majano-Majano A, Íñiguez G. (2012) Short-term performance of the HSB® shear plate type connector for timber-concrete composite beams. Construction and Building materials, 30: 455-462.

