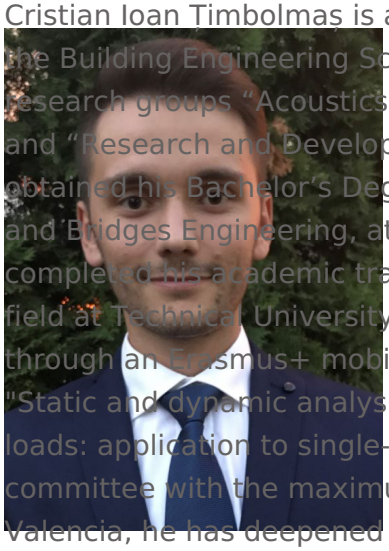
UNIVERSIDAD DE GRANADA

Departamento de Física Aplicada

## Cristian Ioan Timbolmas



Cristian Ioan Timbolmas is a research fellow at the Department of Applied Physics at the Building Engineering School of the University of Granada (UGR), a member of the research groups “Acoustics and Diagnostics of Materials and Structures” – ADIME and “Research and Development Group in Building Engineering” – IDIE. In 2016 he obtained his Bachelor’s Degree in Civil Engineering – Field of Study Railways, Roads and Bridges Engineering, at Technical University of Cluj-Napoca, Romania. He has completed his academic training, obtaining in 2018 a Master’s Degree in the same field at Technical University of Cluj-Napoca, with a thesis elaborated and defended, through an Erasmus+ mobility, at Universitat Politecnica de Valencia, Spain, entitled "Static and dynamic analysis and design of frame bridges subjected to railways loads: application to single-track structures under high-speed traffic", rated by the committee with the maximum grade 10 (out of 10). Before the mobility from Valencia, he has deepened his master studies with another Erasmus+ mobility at Graz University of Technology, Austria, in the field of Geotechnical and Hydraulic Engineering.

After completing his bachelor studies he activated as a bridge engineer for several Romanian companies, being in charge of designing superstructures and substructures for new and existing bridges and responsible for the design and analysis of various structural systems for infrastructure projects. In 2019 he was involved in an European research project related to innovative steel joints connections at the Institute for Sustainability and Innovation in Structural Engineering – University of Coimbra, Portugal.

As well, in 2019 Cristian started his doctoral research at the University of Granada, being now a researcher for the project “Development of engineering products based on poplar boards and sheets with composite material insertion for the use in construction” - Compop, where the main tasks of the project include calculation of the structural performance of poplar timber products with composite insertions using numerical simulation and analytical formulations, performing experimental tests, destructive and non-destructive, for manufactured specimens, numerical validation of the specimens employing finite element analysis, development of 3D finite element models in Abaqus FEA software.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