

Current Place of Residence: Valencia - Spain

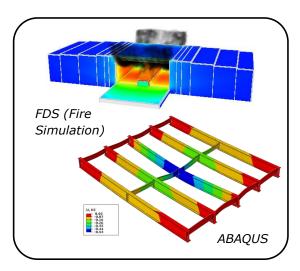
Date of birth: June 17th 1989

Citizenship: Spanish

• Languages: English, Italian, Spanish, Catalan

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 Driving License – Personal Vehicle

Guillem Peris Sayol



EDUCATION: Spanish Civil Engineering Degree & Ph.D Student

Dec. 2013 – Act.

Ph.D Program in Construction Engineering (Valencia, Spain)

Universitat Politècnica de Valencia (U.P.V) – Ph.D program in Civil Engineering. Dept. of Construction Engineering.

Thesis Name: "Analysis of the fire response of multi girder short span steel bridges"

Specialist in: CFD, Fire Dynamics Simulations (FDS), mechanical fire response of a bridge, steel damage due to high temperatures, numerical models in Abaqus, graphic design with Rhinoceros, programming in Visual Basic and Python.

Sep. 2007 – Sep. 2013

Spanish Civil Engineering Education (Valencia, Spain)

Universitat Politècnica de València (U.P.V) – Ingeniería de Caminos Canales y Puertos

Specialization: "Structural Engineering".

Extensive studies of: bridges, building structures analysis and design, steel constructions, concrete structures, train and railway structural elements design, sanitary engineering, fluid mechanics, hydraulic designs, safety and risk prevention, projects management.

Sep. 2012 – Jun. 2013

Erasmus: Final Year Undergraduate Project (Trieste, Italy)

Università Degli Studi di Trieste – Final Project (Thesis)

Thesis Name: "Analysis of the collapse of the overpass located between Hodge and Bayard streets due to a tanker truck fire in Princeton, NJ, USA".

Focus Area:

Fire Dynamics Simulations (FDS): Fire modeling and condition in the structure.

Abaqus: Analysis of a bridge: heat transfer and mechanical response.

WORK EXPERIENCE:

Jun. 2013 - ICITECH

Jul. 2014 Universitat Politècnica de València (Valencia, Spain, 1 year)

Research Group: Bridges in Fire

Principal Investigator:

Ignacio Javier Payà Zaforteza, professor in Universitat Politècnica de Valencia.

Focus Area: Analysis of the structural behavior of steel girder bridges due to fire. The analyses use computational fluid dynamics (CFD) to create the fire model, and finite element (FE) software for

obtaining the thermo-mechanical response of the girder.

Jan. 2012 -

Engineering department of Transport and Infrastructure

Jul. 2012 Universitat Politècnica de València (Valencia, Spain, 7 months)

Project Name: "Methodology to obtain traffic intensities from satellite pictures".

Principal Investigator:

Alfredo García García, professor in Universitat Politècnica de Valencia

Focus Area: Satellite technology (State-of-the-Art), Google Earth, Velocity estimation from Google Earth,

Traffic intensities (AADT), Programming.

PUBLICATIONS:	
Jun. 2013	Numerical analysis of the thermal and structural response of a multi-girder steel bridge in real fire conditions
	2nd International Congress on Mechanical models in structural engineering (University of Granada) This paper examines the response of a 12.2m span steel girder bridge to several real fires caused by a tanker truck and discusses aspects of numerical modeling and influence of tanker position and magnitude of overload.
Feb. 2014	A parametric study on the thermo-mechanical response of a multi-girder steel bridge submitted to real fires
	Informes de la Construcción 2014:66 (NºExtra-1) http://dx.doi.org/10.3989/ic.13.077 (Accepted, waiting publication) The study analyzes modeling features as well as the influence of the position of the tanker and the existence of gas spills.
Jun. 2014	Analysis of the response of a steel girder bridge to different tanker fires depending on its structural boundary conditions
	8 th Conference on Structures in Fire, Shanghai, China (SIF'14) This paper presents an approach to evaluate the fire response of the most exposed girder of a simply supported steel girder bridge designed by the Federal Highway Administration (FHWA) of the USA spanning 12.2 m under three different fire scenarios.
Jun. 2014	Bridges in fire. A parametric study on the thermo-mechanical response of a multi-girder composite bridge.
	VI ACHE Congress This paper examines the response of a 24.8m span composite bridge to different real fires (tanker truck, truck) centered under the structure.
Jul. 2014	A parametric study of a steel girder bridge to realistic fire scenarios
	Computers & Structures (Submitted September 2014) A parametric study on the structural response in front of multi-girder steel bridge against a tanker fire. This paper analyze the influence of the vertical clearance, abutments, wind and tanker position.
LANGUAGES:	
•	English: Professional competence (B2-C1). 3 months studying in Toronto (Canada)
•	Italian: Professional competence (B2-C1). 9 months studying in Trieste (Italy)
•	Spanish: Mother Language
•	Catalan: Mother Language
SOFTWARE:	
•	Structures: ABAQUS, Sap2000, Ansys, Cype.
•	Computational Fluid Dynamics (CFD): FDS, Pyrosim, SmokeView.
•	Programming: Visual Basic, Python, Matlab.
•	Office: Word, Excel, Powerpoint, Project, Latex.
•	CAD: AutoCad, Rhinoceros.
•	Others: Google Earth, MathCad, Mathematica, Epanet, SWMM, DESSAS, ArcGis.
OTHER ACTIVITIES AND INTERESTS	
Other Works	Coach of a 7-year-old children football team in the U.D. Alzira (2008).
	Private tuition for student (2013-2014).
•	Canada, USA, Italy, Slovenia, Austria, Czech Republic, Germany, France.
Trips •	Holland, Belgium, Poland, Portugal, Slovakia, Hungary, Spain.

Sports: Football (12 years), Tennis (3 years).

Travel, hiking, music production.

Hobbies

Founder and guitarist of an alternative rock band Black Lemurs (2013-Act.).