

PERSONAL INFORMATION



Jorge Sánchez Torrijos

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Sex Male | **Date of birth** 24/08/1987 | **Nationality** Spanish

Jorge Sánchez Torrijos is a Naval Architect and Marine Oceanic Engineer with a master's degree in Nuclear Science and Technology, who is currently enrolled in a PhD program related to Nuclear Safety. He has experience in performing simulations of accidental sequences in a NPP by using an interactive simulator of a specific nuclear power plant or the TH system code called TRACE.

PERSONAL STATEMENT

WORK EXPERIENCE

October 2018– Currently **Nuclear Safety Researcher**

Technical University of Madrid (UPM), Energy and Fuels Department

- Performing simulations of accidental sequences in a nuclear power plant with TRACE system code.

Business or sector Nuclear Energy

November 2015– May 2016 **Fellowship**

Fuel Division Group at Iberdrola Ingeniería y Construcción S.L., Madrid, Spain

- Developing Excel Tool for creating automatically core inputs for TRACE code. Running the simulations and then, analysing the results obtained.

Business or sector Nuclear Energy

September 2014– February 2015 **Fellowship**

Technical University of Madrid (UPM), Nuclear Energy Department

Cathedral Gated and Nuclear Safety Council (CSN) Sponsored:

- Performing and reporting simulations of loss of coolant accidents and blackout accidents for José Cabrera NN PP (Spain) using an interactive simulator developed by Tecomatom called SGIZ.

Business or sector Nuclear Energy

June 2014– July 2014 **Fellowship**

Maintenance Department at Boluda Towing and Savage S.L.

- Digitization of information related to the technical characteristics of vessels and equipment (motors, pumps, valves, fire-fighting systems)

Business or sector Naval Engineer

EDUCATION AND TRAINING

2018 – Currently **PhD Candidate in Nuclear Safety**

Polytechnic University of Madrid(UPM), Energy and Fuels Department

- Performing simulations related to accidental sequences such as Loss of Coolant Accidents, or ATWS in a 3 loop NPP PWR with the TRACE system code.
- Analysing the results obtained.

2015 - 2016 **Master in Nuclear Science and Technology** GPA= 7.06/10.00

Polytechnic University of Madrid, Spain

- Master Thesis Topic: "Developing Excel Tool for creating automatically core inputs for TRACE code (TH system code)".

NUCLEAR PHYSICS
NUCLEAR FUSION
DESIGN OF NUCLEAR REACTORS
EXTENDED NUCLEAR TECHNOLOGY
NUCLEAR THERMOHYDRAULIC
NUCLEAR PROPULSION SHIPS
ADVANCED TECHNOLOGIES IN NUCLEAR FISSION REACTORS
PARTITIONING AND TRANSMUTATING NUCLEAR WASTE
RELIABILITY AND RISK ASSESSMENT
NUMERICAL METHODS IN FLUIDYNAMICS
NUCLEAR SAFETY
RADIOACTIVE WASTE MANAGEMENT
ENVIRONMENTAL RADIOLOGICAL IMPACT
SEMINARS

2006 - 2015 **Naval Architect and Marine Oceanic Engineering** GPA=6.57/10.0

Polytechnic University of Madrid, Spain

- **Thesis Topic:** "Tug boat Project"

PERSONAL SKILLS

Mother tongue(s)	Spanish				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	High	Excellent	Good	Good	High
B2/C1 (TOEFL score=94)					
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user					
Common European Framework of Reference for Languages					

Communication skills Strong teamwork with excellent interpersonal, oral and written communication skills with the ability to understand and communicate complex scientific concepts.

- Job-related skills**
- TH system codes: TRACE
 - Subchannel TH codes: COBRA-TF
 - Lattice physics code: CASMO-4/SIMULATE-3
 - CFD codes (Ansys Fluent)
 - Neutronic codes: MCNP5, PARCSv2.7
 - Shielding codes: MCNP5

- Computer skills**
- Good command of Microsoft Office™ tools, CATIA V5, and AUTOCAD.
 - Good programming skills using Fortran90/95, Matlab and Visual Basic for Excel Applications

ADDITIONAL INFORMATION

- Memberships**
- Spanish Nuclear Society (SNE) member since 2016

- Complementary Courses**
- **Strategies and Management of Innovation**, 21 March –15 July 2017, Madrid, Spain.
 - **Programming in Visual Basic for Excel Applications**, 11 March - 8 April 2017, Madrid, Spain.
 - **Advanced Excel 2013**, 4 February - 4 March 2017, Madrid, Spain.
 - **Catia V5: Basic Design**, 11-15 July 2016, Madrid, Spain.
 - **Nuclear Fuel Course**, 27 June -1 July 2016, Madrid, Spain.