



I'm Jorge Sancho, a techie from Zaragoza (Spain), whose interest is easily captured by anything related to networks and security. During my PhD at the University of Zaragoza, I worked with widely used authorization standards, such as OAuth 2.0, and modern Secure Multiparty Computation (SMC) protocols to enable privacy-preserving L7 firewalling. During this time, I taught Network Management and Network and Service Security at the university, and I was also professor of the Secure Architecture module in the Advanced Cybersecurity Course aimed at the Joint Cyber Defense Command (MCCD) of the Spanish Army.

Currently, I work in the security engineering team at Canonical. As the security lead for the snap ecosystem, I strive to make Snaps the most secure way to consume applications in Linux environments by enabling the capabilities of the Linux kernel by default and pursuing a Snap store free of vulnerabilities and malware. My responsibilities include providing publishers with information about vulnerabilities affecting their Snaps, maintaining the review tools for the Snap store, and reviewing security-relevant changes to Snapd.

## Education

- **Doctoral Program in Information and Communication Technologies in Mobile Networks.** 2016 - 2021.  
By the Universities of Basque Country, A Coruña, Cantabria, Oviedo and Zaragoza, obtaining the Cum Laude mention. It was founded via a FPU grant (Government of Spain).
- **Master's Degree in Telecommunications Engineering.** 2014 - 2016.  
By the University of Zaragoza, obtaining the Extraordinary End of Master Award for the best academic results.
- **Bachelor's Degree in Telecommunications Technology and Services Engineering.** 2010 - 2014  
By the University of Zaragoza, obtaining the Extraordinary End of Bachelor Award for the best academic results.

## Experience

- **Security Engineer at Canonical.** 2023 - Today.  
With focus on the snap ecosystem, I provide publishers with information about vulnerabilities affecting their snaps, maintain the review tools for the Snap store, and review security-relevant changes to Snapd.
- **Product Security engineer at BSH Hausgeräte GmbH.** 2021 - 2023.  
As Security Manager of one of BSH's embedded Linux platforms, I defined, prioritized, and monitored security controls to ensure compliance with recognized customer IoT norms (ETSI 303 645).
- **Cybersecurity professor at ACING.** 2018 - 2020.  
Assistant (2018-2019) and Responsible (2020) for the "Secure Architectures Design" module in the Advanced Cyberdefense Course aimed at the Joint Cyber Defense Command (MCCD) of the Spanish Army.

## Thesis

- **Desing and evaluation of novel authentication, authorization and border protection mechanisms for modern information security architectures.**

## Journal articles

- **Authorizing Third-Party Applications Served through Messaging Platforms.**  
Jorge Sancho, José García and Álvaro Alesanco. Sensors 21.17, 2021.
- **Oblivious Inspection: on the confrontation between system security and data privacy at domain boundaries.**  
Jorge Sancho, José García and Álvaro Alesanco. Security and Communication Networks, 2020.
- **Biometric authentication using the PPG: a long-term feasibility study.**  
Jorge Sancho, Álvaro Alesanco and José García. Sensors 18.5, 2018

## Conference presentations

- **Distributed access control for cross-organizational healthcare data sharing scenarios.**  
Jorge Sancho, José García and Álvaro Alesanco. In European Medical and Biological Engineering Conference 2020.
- **Patient identification workflow for seamless EHR access during patient follow-up.**  
Jorge Sancho, José García and Álvaro Alesanco. In European Medical and Biological Engineering Conference 2020.
- **On the privacy enhancement of in-transit health data inspection: a preliminary study.**  
Jorge Sancho, Gert Mikkelsen, Jonas Lindstrøm, José García and Álvaro Alesanco. In Mediterranean Conference on Medical and Biological Engineering and Computing 2019.
- **Photoplethysmographic authentication in long-term scenarios: a preliminary assessment.**  
Jorge Sancho, Álvaro Alesanco and José García. In EMBEC & NBC 2017.

## Contracts

- **Characterization, application and definition of cybersecurity policies over a critical communications system.**  
Founded by Teltronic S.A.
- **Implementation of a license management system and protection of comercial information in distributed environments.** Founded by Urbisan Proyectos e Innovación S.L.

## Supervision of final year projects

- **Design and implementation of a graphic interface to the management of a PHR based on FHIR data using ELK.**  
Master's theses. Manuel Hernández Rodrigo.
- **Design and implementation of a bot for the messaging platform Telegram that allows the remote management of a security camera.** Undergraduate dissertation. Arturo Manuel Dito Iranzo.

## Teaching

- **Network and service security.** Bachelor's Degree in Telecommunications Technology and Services Engineering. From the 2017-18 course to the 2019-20 course.
- **Network management.** Bachelor's Degree in Telecommunications Technology and Services Engineering. From the 2017-18 course to the 2019-20 course.