INES ORTEGA-FERNANDEZ

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EDUCATION

PhD	University of Vigo. Information and Communications Technology. Thesis: *Industrial Intrusion Prevention System with Machine Learning.* Director: Juan C. Burguillo. Codirector: Marta Sestelo	2020 -
Master	Carlos III University of Madrid. Master's degree on Cybersecurity Thesis: *Implementation of the General Data Protection Regulation in R&D in biometrics* Director: Raúl Sánchez Reillo.	2017 - 2018
Bachelor	University Carlos III of Madrid. Computer Science and Engineering. Minor in Computer Engineering Thesis: *Biometric data capturing platform supporting data protection regulations.* Director: Raúl Sánchez Reillo	2012 - 2017

RESEARCH EXPERIENCE

Galician Research Centre on Advanced Telecommunications (Gradiant)   2022 -
Technical Manager - Data Analytics & AI. Security and Privacy Dep.

I oversee the development, implementation and research activities of different R&D projects related to the use of AI for security and privacy applications. I also participate in funding acquisition activities (through European and national calls), and define the research lines for the upcoming years. I am currently taking part in the following research projects:

- TRUMPET "TRUstworthy Multi-site Privacy Enhancing Technologies" [Oct 2022 - September 2025]
- INFINITECH "*Tailored IoT & BigData Sandboxes and Testbeds for Smart, Autonomous and Personalized Services in the European Finance and Insurance Services Ecosystem*" [Oct 2019 – March 2023]

Galician Research Centre on Advanced Telecommunications (Gradiant)   2020-2022
Senior Researcher-Engineer. Security and Privacy Department

Development of novel R&D solutions to improve security on industrial environments. As part of this work, I am pursuing an industrial PhD on Information and Communications Technology. In addition, I took part on the following research projects:

- Task Leader at project INFINITECH "*Tailored IoT & BigData Sandboxes and Testbeds for Smart, Autonomous and Personalized Services in the European Finance and Insurance Services Ecosystem*" [Oct 2019 – March 2023]
- Researcher at project PERSIST "*Patients-centered SurvivorShIp care plan after Cancer treatments based on Big Data and Artificial Intelligence technologies*" [Jan 2020 – Feb 2023]
- Researcher at project CONGALS4.0 [Aug 2019 – Jun 2022]

PROFESSIONAL EXPERIENCE

Microsoft Canada Development Centre, Vancouver (BC, Canada).   2018 – 2020
Software Engineer – COSINE group, Data DI & RD team

Development of big data infrastructure to support processing of Windows telemetry. Improvement of data pre-processing jobs, data aggregation, development of solutions to compute and report the cost of different processing jobs.

University Group of Identification Technologies, Carlos III University   2016 –2018
of Madrid. *Research Intern*
- Support to R&D tasks on biometric recognition
- Development of data capturing and processing software for biometric samples

PUBLICATIONS

Journal
> Sanchez-Reillo, R., Ortega-Fernandez, I., Ponce-Hernandez, W., & Quiros-Sandoval, H. C. (2019). How to implement EU data protection regulation for R&D in biometrics. *Computer Standards and Interfaces*, *61*. https://doi.org/10.1016/j.csi.2018.01.007

Conference
> Sanchez-Reillo, R., Ortega-Fernandez, I., Ponce-Hernandez, W., & Quiros-Sandoval, H. C. (2017). How to implement EU data protection regulation for R&D on personal data. *Proceedings - International Carnahan Conference on Security Technology*, *2017-Octob*. https://doi.org/10.1109/CCST.2017.8167797

Book chapters
> Ortega-Fernandez, I., Martinez, S.E.K., Orellana, L.A. (2022). Large Scale Data Anonymisation for GDPR Compliance. In: Soldatos, J., Kyriazis, D. (eds) Big Data

and Artificial Intelligence in Digital Finance. Springer, Cham. https://doi.org/10.1007/978-3-030-94590-9_19

LANGUAGES

Spanish: Native
Galician: Native
English: Advanced
Portuguese: Basic