

GONZALO MUNILLA GARRIDO

[GitHub](#) ◇ [Google Scholar](#) ◇ [Linkedin](#) ◇ gonzalo.munilla-garrido@outlook.es

EDUCATION

Target degree: Dr. rer. nat. Computer Science, Oct 2019 - Present
Technical University of Munich (TUM), Department of Informatics.
Dissertation topic: Bringing Privacy-Enhancing Technology to Practice

M.Sc. Mult. Mechanical Engineering and Management, 2016 - 2019
Technical University of Munich (TUM) and Polytechnic University of Madrid (UPM), **GPA: 2.3/1.0**
Thesis: Integration and Evaluation of an Electric Vehicle Fleet in a Blockchain-Based Flexibility Market Platform

B.Sc. Mechanical Engineering, 2012 - 2016
University of Zaragoza, **GPA: 2.3/1.0** (Top 10% in graduation)
Thesis: Evaluation of Wind Turbine Converter Designs Considering their Thermal Behaviour

Relevant Courses: Algorithms, Probability Theory, Machine Learning, Statistics, Industrial Software Engineering, Power Electronics, Fluid Mechanics, Thermodynamics

Experience abroad: RWTH Aachen Faculty of Mechanical Engineering, Germany (2015-2016, Erasmus year)

PUBLICATION LIST

I) Do I Get the Privacy I Need? Benchmarking Utility in Differential Privacy Libraries 2021, pre-print
II) Revealing the Landscape of Privacy-Enhancing Technologies in the Context of Data Markets for the IoT: A Systematic Literature Review 2021, pre-print
III) Exponential Randomized Response: Boosting Utility in Differentially Private Selection 2021, pre-print
IV) Exploring Privacy-Enhancing Technologies in the Automotive Value Chain 2021, published
V) Towards a Privacy-Enhancing Tool Based on De-Identification Methods (2nd author) 2020, published
VI) The Use of De-identification Methods for Secure and Privacy-enhancing Big Data Analytics in Cloud Environments (2nd author) 2020, published
VII) A Blockchain-Based Flexibility Market Platform for EV Fleets 2020, published

TECHNICAL SKILLS

Proficient Python, Solidity
Familiarity SQL, JavaScript, Docker, Travis CI, Kubernetes, Serverless, Node.js, AWS, Git

EXPERIENCE

Ph.D. Student Oct 2019 - Present
The BMW Group, *Munich*
TUM, *Munich*

- Led the BMW Group's joint project with [Oasis Labs](#) to integrate a private SQL engine in the data lake to enhance privacy without losing more than 15% of accuracy and performance **SQL** [Post](#)
- Taught the Blockchain-Based Systems Engineering problem session of the faculty of Informatics at TUM in the Summer semester of 2021 with a record exam registration of over 300 students **Solidity** [Git](#)

TECHNICAL PROJECTS

Featured contributor of the month at OpenMined, a non-profit organization developing open-source privacy tools. [OpenMined](#)

Blogger at OpenMined I post differential privacy code tutorials **Python**. [OpenMined](#), [Git](#)

Mentor and judge in (i) HackaTUM 2019, and in (ii) the online HackaTUM against COVID-19. (i) [Site](#), (ii) [Site](#)

Professional Scrum Master I, email for verification: gonzalo.munilla-garrido@tum.de [Credential](#)

Data science portfolio It includes supervised, unsupervised, and deep learning projects **Python** [Git](#)

Cloud development portfolio It contains projects such as developing serverless apps **Serverless**, **Docker** [Git](#)