

GONZALO MUNILLA GARRIDO

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

EDUCATION

Target degree: Dr. rer. nat. Computer Science: Data Privacy, Oct 2019 - Present
Technical University of Munich (TUM), Department of Informatics - [Prof. F. Matthes](#)

Dissertation topic: Improving the Applicability of Privacy-Enhancing Technology in Practice

Visiting Student Researcher: Privacy Engineering, Mar - Sep 2022

UC Berkeley, Department of Computer Science - [Prof. Dawn Song](#)

Funding: \$10,000 from the [Ethereum Foundation](#) grant program.

M.Sc. Mult. Mechanical Engineering and Management, 2016 - 2019

Technical University of Munich (TUM) and Polytechnic University of Madrid (UPM), **GPA: 8/10**

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: 7.3/10** (Top 10% in graduation)

Year abroad: RWTH Aachen Faculty of Mechanical Engineering, Germany

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

SELECTED PUBLICATIONS

- I) Going Incognito in the Metaverse 2022 (pre-print)
- II) Exploring the Unprecedented Privacy Risks of the Metaverse 2022 (pre-print)
- II) Towards Verifiable Differentially-Private Polling 2022 (published)
- III) Do I Get the Privacy I Need? Benchmarking Utility in Differential Privacy Libraries 2021 (pre-print)
- IV) Revealing the Landscape of Privacy-Enhancing Technologies in the Context of Data Markets for the IoT: A Systematic Literature Review 2021 (published)
- V) A Blockchain-Based Flexibility Market Platform for Electric Vehicle Fleets 2020 (published)

PATENTS

US #63/366,499 (G06F 21/32): System and Method for Determining Personal Information from Extended Reality Tracking Data Jun 2022 (pending)

US #63/366,500 (G06F 21/60): System and Method for Protecting Personal Information from Extended Reality Tracking Data Jun 2022 (pending)

TECHNICAL SKILLS

Knowledgeable Python

Familiarity Solidity, SQL, C#, 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** [GitHub](#)

MEDIA COVERAGE & TECHNICAL PROJECTS

Featured in Google's Awakening magazine, article on differential privacy [Awakening](#)

Featured in Forbes and The Register, articles on the privacy risks of the metaverse [Forbes](#), [The Register](#)

MetaGuard, co-creator of the first proposal for a metaverse incognito mode **C#** [GitHub](#)

Contributor of the month at OpenMined, a non-profit developing privacy tools [OpenMined](#)

Blogger at OpenMined, posts on differential privacy code tutorials **Python** [OpenMined](#), [GitHub](#)

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