

# GONZALO MUNILLA GARRIDO

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## 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) |
| III) | Towards Verifiable Differentially-Private Polling  | 2022 (published) |
| IV)  | Do I Get the Privacy I Need? Benchmarking Utility in Differential Privacy Libraries  | 2021 (pre-print) |
| V)   | Revealing the Landscape of Privacy-Enhancing Technologies in the Context of Data Markets for the IoT: A Systematic Literature Review | 2021 (published) |
| VI)  | 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 I](#), [II](#)

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

**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](#)