

Guillermo Rodríguez Cano

software engineer / researcher

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linkedin://wileeam in

github://wileeam 🐙

http://csc.kth.se/~gurc/ 🏠

programming

</> Java, C/C++, Objective-C

Python, Ruby, R

HTML5, CSS3 & Javascript

interests

❤️ scalable backend design

distributed systems

social data analytics

❤️ privacy-preserving tools

system administration

network planning

❤️ finance & trading

graph theory

skills

▶ team player

curious mind

▶ result driven

initiative

self organised

management

languages

native spanish

professional english

beginner swedish & french

hobbies

👍 strength training

swimming

digital photography

urban cycling

👍 oil painting

reading & traveling

DIY projects

statement

I am a tech engineer passionate for people and driven by applied research. As a human being, I am a positive, social and happy communicator that, combined with my technical expertise makes me easy to work with and understand the needs of the stakeholders in the organisation.

I like working in cross-functional teams, particularly with those where different expertise and viewpoints are needed to succeed solving problems.

In a nutshell, I have more than 4 years of extensive experience in the areas of data science, data and software engineering and large-scale machine learning design and development, in both academia and industry.

I do also have more than 5 years expertise in security and privacy by design with a focus on decentralised systems, for which I am also an advocate and big supporter of data governance policies.

If I would highlight three of my skills, those would be my experience architecting and leading the right solution for a problem with the rest of the team, my humility to listen and learn from others, and my interest and curiosity to acquire knowledge by solving new and challenging problems.

On the personal side, I am an amateur digital photographer and oil painter, and a happy cat owner. While I am not spending my free time with family or some friends, I enjoy riding my mountain bike all around the city.

experience

since mar '17 **Bonnier Broadcasting** (Bonnier) Stockholm, Sweden
Data Scientist and AI Engineer

Design and development of data-driven solutions for the business units at Bonnier Broadcasting

- Define, design and develop the strategy and the data warehouse infrastructure with Google Cloud Platform as service provider.
- Develop realtime data pipelines to consume and process streaming events from main clients (i.e., TV4 Play and C More) and other services.
- Design and develop machine learning based models of interest for analytics-driven units (i.e., churn prediction, recommendations engine). Evangelize the transition to automated machine learning models (i.e., to business analysts).
- Identify the technical requirements of product, operation and business stakeholders to roll out new data-driven projects and transform current ones.

jun-oct '16 **Palo Alto Research Center** (Xerox Corporation) Palo Alto, California, USA
Visiting Researcher

Analyse and design methods for privacy-preserving data mining in graph-based large-scale datasets.

- Analyse state of the art approaches for privacy preservation in large-scale graphs (nodes and edges).
- Prototype anonymisation techniques for graphs on large-scale social network use case.
- Compare structural analytical properties of graph anonymisation techniques.

since oct '11 **KTH Royal Institute of Technology** Stockholm, Sweden
Researcher

Research on applied graph theory, social network analysis, distributed systems, data mining, security and privacy in the area of (decentralised) online social networks.

- Large-scale graph data warehousing and analysis.
- Analysis, design and evaluation of security and privacy protocols in online social networks.

'11-'12 **DataWeb Research Group** (University of Valladolid) Valladolid, Spain
Research Associate

Technical advice for "Binary RDF Representation for Publication and Exchange" project.

- Technical advice, design and development of core protocols and routines of HDT-RDF data structure and serialisation format.
- Writing of technical documentation for W3C member submission.

- mar-jun '10 **MoBiVAP Research Group** (University of Valladolid) Valladolid, Spain
Software Engineer
 Research support for the private-public partnership project *"Accessible heritage: R&D&i for a culture without barriers"*.
 - Engineering and development of a semantic analysis and smart taxonomy search assistant.
 - Overall improvement of the hierarchical categorisation of heritage reporting system.
- '05-'06 **ITC Services** (University of Valladolid) Valladolid, Spain
Software Engineer Intern
 Design and development in the university-wide smart-card project *"Applications' development for UVa smart-card"*.
 - Engineering and implementation of features for students and staff at the university's automated self-service machines.

education

- since '11 **Ph.D. in Computer Science** (candidate) KTH Royal Institute of Technology, Sweden
 Topic: *"Modeling privacy-preserving decentralized online social networks"*.
 - Licentiate thesis: *"Toward Privacy-Preserving Decentralised Systems"*. May, 2017.
 - Part of the research project: *"PeerSoN: Privacy-Preserving P2P Social Networks"*.
- '10 **M.Sc. in Computer Science** Uppsala University, Sweden
 Thesis: *"Configuration of hyper-graph based feature diagrams"*
 - Part of the research projects: *"Model-Driven Software Product Line Development"* and *"Development, Integration and Evolution of Software Systems: A Product Line Perspective"*.
- '08 **B.Eng. in Computer Science** (Systems) University of Valladolid, Spain
 Thesis: *"Software product lines and feature models. A case study in the associationism phenomenon"*.
 - Awarded 9.8/10 grade with honours.

projects

- since '11 **PeerSoN** Academic Research
<http://www.peerson.net/>
 Framework for a secure, distributed and privacy-preserving peer-to-peer infrastructure supporting the most important features of online social networks.
- '11-'12 **RDF/HDT** W3C Member Submission
<http://www.rdfhdt.org/>
 Compact binary RDF representation format addressing the exchange, indexation and consumption of large datasets in the web of data.

others

- since '12 **Libre Software University Contest** Assessment Committee
<https://concursosoftwarelibre.org/>
 Member of the assessment committee for the national university contest of open-source software projects.