

# Borja de Régil

[borjaocook@gmail.com](mailto:borjaocook@gmail.com)

[deregil.es](http://deregil.es)

[github.com/ergl](https://github.com/ergl)

Making strong consistency scale.

## Areas of Interest

Distributed and Storage Systems

Strong (consensus) and Weak Consistency (CRDTs)

Thread-per-core programming language runtimes

## Education

B.S. in Computer Science

*Complutense University of Madrid, Madrid*

*June 2020*

## Experience

Imdea Software Institute

*Research/Development Engineer*

*June 2020—Current*

Developer of Unistore, a fault-tolerant data store combining causal and strong consistency. Developed significant experience with fault-tolerant distributed consensus protocols (Paxos) and Conflict-free replicated data types (CRDTs). The work was funded by an ERC grant *A Rigorous Approach to Consistency in Cloud Databases*.

Imdea Software Institute

*Research Intern*

*October 2016—May 2020*

Developer of fastPSI, a transactional protocol for databases with flexible consistency semantics. Developed experience with property-based testing and TCP performance on high-latency scenarios. Extensive design of evaluation benchmarks. The work was funded by an ERC grant *A Rigorous Approach to Consistency in Cloud Databases*.

Google Summer of Code, BEAM Community

*Participant*

*May 2016—Aug 2016*

Improved the run-time performance of **Lasp**, a programming language for distributed, eventually consistent computations. Reduced end-to-end latency by applying deforestation techniques and control flow analysis in distributed dataflow scenarios.

## **Publications**

Conferences

Manuel Bravo, Alexey Gotsman, Borja de Régil and Hengfeng Wei, *UniStore: A fault-tolerant marriage of causal and strong consistency*. USENIX ATC '21. [\[PDF\]](#)

Workshops

Borja de Régil and Christopher Meiklejohn, *Dynamic Path Contraction for Distributed, Dynamic Dataflow Languages*. AGERE 2016. [\[arXiv preprint\]](#)

## **Skills**

Go, Erlang, R, shell scripting (*Professional Experience*)

Java, Python, Pony, Javascript (*Fluent*)

C, OCaml, Clojure, Rust (*Familiar*)

## **Languages**

*English* (Full professional proficiency)

*Spanish* (Native)