

# Borja de Régil

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[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

## Experience

Imdea Software Institute

*Research/Development Engineer*

*June 2020—Current*

Imdea Software Institute

*Research Intern*

*October 2016—May 2020*

Implemented and evaluated a new transactional protocol for strongly consistent distributed databases; implemented a relational (SQL) model adapter for key-value distributed storage; tested distributed programs via property checking (model checking); implemented an open-source library for batching and multiplexing TCP connections, which allowed to scale systems to handle up to 2.5 times more requests per second. 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 run-time performance of the Lasp programming language by applying deforestation techniques and control flow analysis.

## 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*)

## Education

B.S. in Computer Science

*Complutense University of Madrid*, Madrid

*June 2020*

## Languages

*English* (Full professional proficiency)

*Spanish* (Native)