

# Borja de Régil

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I am interested in writing fast and correct distributed systems and scalable peer-to-peer networks.

## Areas of Interest

Distributed Systems

Databases

Conflict-Free Replicated Data Types (CRDTs)

## Skills

Erlang, Bash, Javascript (Node) (*Professional Experience*)

Java, Python, Pony (*Fluent*)

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

## Previous Experience

Imdea Software Institute

*Research Intern*

*October 2016—Current*

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 the batching and multiplexing of TCP connections, which allowed to scale systems to handle up to 2.5 times more requests per second.

Google Summer of Code

*Alumni*

*Summer 2016*

Improved run-time performance of the Lasp programming language by applying deforestation techniques and control flow analysis.

H4ckademy Programming School

*Alumni*

*Summer 2015*

Co-designed and implemented a domain-specific language in Python that would let users write unit test against streaming APIs.

## **Publications**

Workshop

Borja Arnau de Régil Basáñez, Christopher Meiklejohn, *Dynamic Path Contraction for Distributed, Dynamic Dataflow Languages*. AGERE 2016.

<http://arxiv.org/abs/1609.01068>

## **Education**

B.S in Computer Science

*Complutense University of Madrid, Madrid*

*Class of 2020*

## **Languages**

*Spanish* (Native)

*English* (Full professional proficiency)