Sebastián Ferrada

Ministro Bonilla 699
Santiago-Chile
✆ +56 9 6236 2015
✉ sferrada@dcc.uchile.cl
🖳 http://scferrada.github.io

Education

Current	**PhD in Computer Science**, *Universidad de Chile*, Santiago.
	Pursuing a PhD in Computer Science degree
2015–2017	**Masters in Computer Science**, *Universidad de Chile*, Santiago, *7.0*.
2010–2017	**Civil Engineering in Computer Science**, *Universidad de Chile*, Santiago, *7.0*.
2010–2015	**Bachelors in Computer Science**, *Universidad de Chile*, Santiago, *5.4*.

Masters thesis

Title	*IMGpedia: a Large-scale Knowledge-base to Perform Visuo-semantic Queries over Wikimedia Commons Images*
Supervisors	Benjamin Bustos and Aidan Hogan
Description	IMGpedia is a linked dataset that contains content description for 15 million Wikimedia images, provides visual similarity links among them as well as external links to DBpedia and Wikidata. IMGpedia allow people to ask visuo-semantic queries such as "obtain people similar to paintings on display at the Louvre"

Experience

Academic

Santiago 2017–2018	**CC66D - Relational Databases**, *Teacher. Lectures and Laboratories for Diploma course.*
Santiago 2014–2018	**CC3201 - Databases**, *Teaching assistant. Laboratory preparation and theoretical classes.*
Santiago 2014–2017	**CC3001 - Design and Programming Methodologies**, *Teaching assistant. Assignment review and theoretical classes.*
Santiago 2016	**CC5204 - Content-based Image and Video Retrieval**, *Teaching assistant. Assignment review.*
Santiago 2014–2016	**CC4102 - Design and Analysis of Algorithms**, *Teaching assistant. Assignment review.*
Santiago 2014, 2016	**CC3001 - Algorithms and Data Structures**, *Teaching assistant. Theoretical classes.*

Santiago **Millenium Nucleus Center for Semantic Web Research**,
2015–2017 *Graduate Research Assistant*.
Research tasks in the project involving my PhD thesis, grant N°NC1200004.

Santiago **NIC Chile Research Labs**,
2014 *Part-time Programmer*.
I contributed in the implementation of features for the BeCity Android app. The main technologies used in the project were mobile (Eclipse, Android SDK) and Python/Flask/MongoDB for the server side.

Santiago **Rubén Boroschek y Asociados**,
2013 *Part-time Programmer*.
I designed and developed a desktop application for real time monitoring accelerometers' internal state for sensors of CChEN (Chilean Commission for Nuclear Energy). The main tools used were Qt/Qt Creator and IntelliJ/Java.

Santiago **Imagicair**,
2012 *Part-time Programmer*.
I developed features for a J2EE application for the Heath Insurance System of Carabineros de Chile. Technologies used were IntelliJ, Maven, Spring Webflow, Hibernate, Java Server Faces, Tomcat and Oracle Databases.

Publications

Sebastián Ferrada, Benjamin Bustos, and Aidan Hogan. IMGpedia: A linked dataset with content-based analysis of wikimedia images. In *The Semantic Web – ISWC 2017*, pages 84–93. Springer International Publishing, 2017.

Sebastián Ferrada, Benjamin Bustos, and Nora Reyes. A simple, efficient, parallelizable algorithm for approximated nearest neighbors. In *Proc. 12 Alberto Mendelzon International Workshop on Foundations of Data Management (AMW)*, 2018.

Sebastián Ferrada, Nicolás Bravo, Benjamin Bustos, and Aidan Hogan. Querying wikimedia images using wikidata facts. In *Proc. of the 4th Wiki Workshop*, 2018.

Sebastián Ferrada, Benjamin Bustos, and Aidan Hogan. Answering visuo-semantic queries with IMGpedia. In *Demo proc. of the 16th International Semantic Web Conference*, 2017.

Sebastián Ferrada, Benjamin Bustos, and Aidan Hogan. IMGpedia: Enriching the Web of Data with Image Content Analysis. In *Proc. 10 Alberto Mendelzon International Workshop on Foundations of Data Management (AMW)*, 2016.

Self Promotion

ISWC 2017 **Student Best Paper**, *Resources track, for* IMGpedia: a Linked dataset with Content-based analysis of Wikimedia Images.

ISWC 2017 **Best Poster**, *for* Answering Visuo-semantic Queries with IMGpedia.

DCC 2015 Outstanding Student, *for having an excellent performance in the academic year*.