

Adrián Soto Suárez

CONTACT INFORMATION *Web:* `adriansoto.cl`
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WORK EXPERIENCE **PUC Chile,**
Lecturer, August 2016 – present.
Teaching assistant, 2013 – 2019.

PUC Chile, CIWS and IMFD,
Research assistant, 2014 – present.

Simula UC,
Software Developer, 2015.

EDUCATION **PUC Chile,**
PhD in Computer Science, March 2016 – Estimated May 2020.

- Supervisor: Prof. Juan L. Reutter.
- Thesis title: *Efficient processing of join and federated queries in SPARQL*.
- Research: semantic web, join algorithms and query languages.

Faculty of Engineer, PUC Chile,
Software engineer, March 2011 - October 2018.

TEACHING EXPERIENCE **PUC Chile, School of Engineering**
Undergraduate Courses

- Lecturer for the “IIC2413 - Bases de Datos” course (Spring 2016, 2017, 2018, Autumn 2019).

Postgraduate Diploma

- Lecturer for the “Teoría de Grafos para Big Data” course (Spring 2019).

Short Courses

- Teacher for a short course of Data Journalism (2017, 2018): I organised and was a lecturer of a one week course where journalists could learn some topics of data management and programming skills.
- Teacher for a short course of Web Scrapping for Political Science (2019): I gave a lecture about web scrapping in a course of programming skills for political scientists.

Ohters

- Organiser and teacher for the course of Java for School Student (2017, 2018).

Teaching Assistant

- IIC2233 - Programación Avanzada (4 times).
- IIC1103 - Introducción a la Programación (3 times).
- IIC2413 - Bases de Datos (3 times).
- IIC2154 - Proyecto de Especialidad (2 times).
- IIC3413 - Implementación de Sistemas de Bases de Datos (2 times).
- IIC2143 - Ingeniería de Software.
- IIC2513 - Tecnología y Aplicaciones Web.
- IIC3242 - Complejidad Computacional.
- IIC3432 - Tópicos Avanzados en Bases de Datos.
- IIC3272 - Criptomonedas y Contratos Inteligentes.

CAREER HIGHLIGHTS	<p>“Premio excelencia docente, mejor profesor Part-Time del Departamento de Ciencia de la Computación”, PUC Chile 2017.</p> <p>“Premio al profesor más inspirador del Departamento de Ciencia de la Computación”, PUC Chile 2019.</p> <p>The paper <i>Querying APIs with SPARQL</i> (joint with Juan L. Reutter, Domagoj Vrgoč, Fernando Pieressa and Matthieu Mosser) published in AMW 2019 was invited to be part of the journal <i>Information Systems</i> as one of the best three papers in the conference.</p> <p>The paper <i>Recursion in SPARQL</i> (joint with Juan L. Reutter and Domagoj Vrgoč) nominated for the best paper award in the International Semantic Web Conference (the flagship conference for the Semantic Web area) in 2015.</p>
JOURNAL PUBLICATIONS	<p>L. Libkin, J. L. Reutter, A. Soto, D. Vrgoč, <i>TriAL: A navigational algebra for RDF triplestores</i>, ACM Transactions on Databases Systems 43(1): 5:1-46 (2018).</p>
CONFERENCE PUBLICATIONS	<p>Aidan Hogan, Cristian Riveros, Carlos Rojas, A. Soto, <i>A Worst-Case Optimal Join Algorithm for SPARQL</i> (ISWC 2019).</p> <p>Matthieu Mosser, Fernando Pieressa, Juan L. Reutter, A. Soto, Domagoj Vrgoč, <i>Querying APIs with SPARQL: Language and Worst-Case Optimal Algorithms</i> (ESWC 2018).</p> <p>Juan L. Reutter, A. Soto, Domagoj Vrgoč, <i>Recursion in SPARQL</i> (ISWC 2015).</p>
WORKSHOPS AND DEMOS	<p>Matthieu Mosser, Fernando Pieressa, Juan L. Reutter, A. Soto, Domagoj Vrgoč, <i>Querying APIs with SPARQL</i>, (AMW 2019).</p> <p>Jaime Castro, Adrián Soto, <i>A Comparison between Cypher and Conjunctive Queries</i>, (AMW 2017).</p> <p>Matias Junemann, Juan L. Reutter, Adrián Soto, Domagoj Vrgoč, <i>Incorporating API Data into SPARQL Query Answers</i>, (ISWC (Demos) 2016).</p>
MANUSCRIPTS UNDER REVIEW	<p>Juan L. Reutter, A. Soto, Domagoj Vrgoč, <i>Recursion in SPARQL</i>, submitted to the Semantic Web Journal on August 2019.</p> <p>Matthieu Mosser, Fernando Pieressa, Juan L. Reutter, A. Soto, Domagoj Vrgoč, <i>Querying APIs with SPARQL</i>, submitted to the Information Systems Journal on October 2019.</p>

PROFESSIONAL
SERVICES

Program committee member ESWC 2019.
Program committee member ECAI 2020.
Publicity chair PODS 2018.

Matthieu Mosser, Fernando Pieressa, Juan L. Reutter, A. Soto, Domagoj Vrgoč, *Querying APIs with SPARQL*, submitted to the Information Systems Journal on October 2019.

PROGRAMMING
SKILLS

Programming: Python, Java, C#, JavaScript, Scala, C, C++, Ruby.

Important Frameworks and Libraries: Django, Flask, SciKit-Learn, Keras, Rails, Express, Koa, NumPy, SimPy, Jupyter, Pandas, Apache Spark, JQuery, Bootstrap.

Query Languages and Database Systems: SQL, SPARQL, Cypher, MongoDB.

REFERENCES

Juan L. Reutter
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Edificio San Agustín, 4to piso
Macul 7820436, Santiago, Chile
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