# JORGE SALDIVAR

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## CURRENT POSITION AND RESEARCH

### Assistant Researcher
**Catholic University of Asunción, Paraguay**
📅 February 2016       ♀ Asunción, Paraguay

Assistant researcher at the Department of Electronic and Informatics, Catholic University of Asunción, Paraguay working on the following topics:

**Applied Machine Learning & Data Analysis**, **Civic Participation & Democratic Innovation**, **Crowdsourcing**, **Collective Intelligence**

## EDUCATION

### Ph.D. candidate, Computer Science
**University of Trento, Italy**
📅 *(expected)* April 2016

**Thesis:** Integrating Platforms for Eliciting Ideas with Social Networks: An approach to empower civic engagement for public sector innovation

### Bachelor of Science (B.Sc.), Informatics Engineering
**Catholic University of Asunción, Paraguay**
📅 February 2010

**Thesis:** Improving cooperative and competitive behaviors on visually impaired children

## RESEARCH PROJECTS

### Participa
**Leading Institution:** **Catholic University of Asunción, Paraguay**
📅 February 2016 – Present

Developing ICT solutions to foster, support, and facilitate civic participation in the creation of social impact solutions and public sector innovations

### The California Report Card
**Leading Institution:** **University of California Berkeley, USA**
📅 July 2014 – December 2014

Implementing mobile-based solutions to structure and streamline communication from the California residents to their elected officials.

### BPM4People (EU FP7 funded project)
**Leading Institution:** **University of Trento, Italy**
📅 November 2011 – October 2013

Developing methodologies, techniques, and tools to model and deploy business processes that are executed collaboratively by people in social networks.

### Ianus
**Leading Institution:** **University of Trento, Italy**
📅 November 2011 – March 2013

Developing of methods, techniques, and tools to model, analyze, test, and deploy business processes.

## TEACHING ACTIVITIES

### Thesis co-tutor
**University of Trento, Italy**
📅 November 2014 – March 2015

Co-tutor of the master thesis *Analyzing and visualizing citizen opinions collected from social networks*

### Teaching assistant
**University of Trento, Italy**
📅 February 2015 – September 2015

Course *Web Programming Technologies*, which was focused on J2EE web technologies (e.g., Servlet, JSP, JSTL, JavaBean)

### Teaching assistant
**Catholic University of Asunción, Paraguay**
📅 February 2006 – July 2007

Course *Programming Languages*, which was focused on algorithms and data structures (C language)

## TECHNICAL SKILLS

Data analytics
**Data analysis with R** ●●●●○
**Visualization with Ggplot/Jit** ●●●●○
**Machine Learning with R** ●●●○○

Programming languages
**Python** ●●●●●
**Javascript** ●●●●○
**HTML/CSS** ●●●●○
**Java** ●●●●○
**PHP** ●●●○○
**Ruby** ●●●○○
**C** ●●●○○
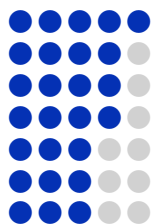
Databases
**MySQL** ●●●●●

Web application development
**Django** ●●●●●
**Play** ●●●●○
**Ruby on rails** ●●●○○

Mobile application development
**Android** ●●●○○

Version control
**GIT** ●●●●○

## OTHER PROFESSIONAL EXPERIENCES

### Visiting Researcher

**Center for Information Technology Research in Interest of the Society (CITRIS), University of California, Berkeley**

📅 July 2014 – October 2014     📍 Berkeley, CA, USA

- Modeled, designed, and implemented a Twitter-based extension for the platform CAFE used in the project California Report Card to engage citizens of California in the collective assessment of timely issues

### Visiting Researcher

**Information Analysis Division, Hewlett-Packard (HP) Labs**

📅 October 2013 – December 2013     📍 Palo Alto, CA, USA

- Designed and implemented an web-based interactive analytic tool for conducting real-time visualization of query execution
- Developed a recommendation plugin that annotated the query tree with the most interesting results of its execution analysis, which may indicate execution problems and recommend design solutions for the discovered problems in queries

### Software Engineer

**NGO Paraguay Educa**

📅 January 2010 – July 2011     📍 Asunción, Paraguay

- Developed and maintenance of Sugar OS apps (Labyrinth, Poll, TamTam).
- Designed, modeled, implemented and maintained the educational software stack (learning platforms, online libraries, student tracking systems) used by teachers and students in classrooms during the deployment of the project One Laptop per Child (OLPC).

## RECENT PUBLICATIONS

Published **11 peer-reviewed papers** in relevant conferences and journals. The most recent are the following

### 📄 Journal Articles

- Aitamurto, T., H. Landemore, and J. Saldivar (2016). "Unmasking the crowd: participants' motivation factors, expectations, and profile in a crowdsourced law reform". In: *Information, Communication & Society*.
- Saldivar, J., C. Rodríguez, F. Daniel, F. Casati, and L. Cernuzzi (2016). "On the (in) effectiveness of the share/tweet button: A study in the context of idea management for civic participation". In: *IEEE Internet Computing*.
- Saldivar, J., C. Vairetti, C. Rodríguez, F. Daniel, F. Casati, and R. Alarcón (2016). "Analysis and improvement of business process models using spreadsheets". In: *Information Systems*.

### 👥 Conference Proceedings

- Aitamurto, T., K. Chen, A. Cherif, J. Saldivar, and L. Santana. "Civic CrowdAnalytics: making sense of crowdsourced civic input with big data tools". In: *Proceedings of the 20th International Academic Mindtrek*.
- Saldivar, J., M. Baez, C. Rodriguez, G. Convertino, and G. Kowalik (2016). "Idea Management in the Wild: An exploratory study of 166 online communities". In: *Proceedings of the 17th International CTS Conference*.

## AWARDS

- **Best Paper Award**. Academic Mindtrek Conference, October 2016. Paper: *Civic CrowdAnalytics: making sense of crowdsourced civic input with big data tools*.
- **PhD student fellowship**. University of Trento, Trento, Italy (2011-2014).
- **PhD on the move scholarship**. Trento RISE Association, Trento, Italy (2013).

## COLLABORATION IN RESEARCH COMMUNITIES

Reviewed scientific articles and papers for the following conferences and journals

- **Conferences:**
  **WWW** (Int. Conf. on World Wide Web), **ISOC** (Int. Conf. on Service Oriented Computing), **CTS** (Int. Conf. on Collaboration Technologies and Systems), **Academic Mindtrek** (Int. Academic Mindtrek Conference), **ICEIS** (Int. Conf. on Enterprise Information Systems),
- **Journals:**
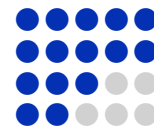  **JSMO** (Journal of Social Media for Organization)

## LANGUAGES

**Spanish (native speaker)** ●●●●●
**English** ●●●●●
**Italian** ●●●○○
**Portuguese** ●●○○○

## REFEREES

**Prof. Fabio Casati**
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✉ University of Trento, Trento, Italy

**Dr. Gregorio Convertino**
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✉ Informatica Corporation, Redwood City, CA, USA