

SANTIAGO CASTRO

PhD Student

@ sacastro@umich.edu 📍 Ann Arbor, MI, USA 🔗 santi.uy 🎓 Santiago Castro 🌐 bryant1410 🐦 bryant1410
in santiagocastroseerra 📄 bryant1410

Diligent Computer Scientist with experience in Research and Development for both the industry and the academy. Passionate about NLP and ML. Free Software fan.

EDUCATION

Ph.D. in Computer Science

University of Michigan

📅 Sept. 2018 – Present 📍 Ann Arbor, MI, USA

- Advisor: Rada Mihalcea
- My main research interest is in holistically representing **multimodal** sources (i.e., Language and Vision) to tackle multiple types of tasks. I am also interested in **Subjectivity**, in particular in problems involving **Humor** and **Sarcasm**; and in **Reasoning**.

B.E. in Computer Science

Universidad de la República

📅 March 2010 – May 2015 📍 Montevideo, Uruguay

- 3rd student who graduated, chronologically, out of a generation of 665.
- GPA: 9.9 (out of 12, average at the university is 5.6). 4th in GPA ranking.
- Extracurricular courses: Introduction to Deep Learning, Deep Learning applied to Natural Language Processing, Formal Grammars for Natural Language, General-Purpose Computing on Graphics Processing Units and Semantic Parsing.

WORK EXPERIENCE

Lead Machine Learning Engineer

Xmartlabs

📅 September 2016 – August 2018 📍 Montevideo, Uruguay

- I started a Machine Learning area, highly focused on Mobile Computer Vision projects. It included the pioneering idea, design and development leadership of the open source project Bender: a novel framework to run neural networks in iOS for real-time purposes, using the iPhone's GPU. This project, after its release, has subsequently seen the emerge competitors from big tech companies (e.g., Google's TF Lite, Apple's Core ML, Facebook's Caffe2Go and Baidu's MDL). Worked also on other CV+ML projects for the Entertainment, Retail and Agro industries.
- *Bender*: <https://github.com/xmartlabs/Bender>
- *Dreamsnap*: <https://getdreamsnap.com>

Web Developer

Department of Social and Political Sciences, Universidad Católica del Uruguay

📅 June 2016 – November 2016 📍 Montevideo, Uruguay

- Development of a web site for a project to show the network between political parties and the donors in their campaigns.
- <https://finpol.github.io>

LIFE PHILOSOPHY

"There are no secrets to success. It is the result of preparation, hard work, and learning from failure."

AWARDS

💬 **1st place in TASS 2017, Task 1, corpus GralTASS 1k**
SEPLN 2017. Sentiment Analysis contest. We also finished 2nd in one of the other two corpora.

📄 **Best Paper Award 2nd place**
IBERAMIA 2016

🏆 **3rd place in the Engineering Fair ("Ingeniería deMuestra")**
In the CS Thesis Contest. October 2015.

💻 **1st place in Hoshimi Programming Contest**
In December 2009

x² **Finalist in National Mathematics Olympiads**
In December 2003

GRANTS & SCHOLARSHIPS

🧪 **Research Initiation Grant**
By CSIC, for a project on the study of Subjectivity and its application to Humor Classification using DL. \$16,632. November 2017.

🧪 **Research Initiation Scholarship**
By ANII, for the undergraduate thesis project. \$2,400. August 2014.

STRENGTHS

Hard-working Skeptic Focused
Team-player Informed Organized

LANGUAGES

Spanish ●●●●●
English ●●●●●

WORK EXPERIENCE (CONTINUED)

Teaching & Research Assistant (“Asistente – Grado 2”)

Universidad de la República

📅 March 2014 – August 2018 📍 Montevideo, Uruguay

- *Natural Language Processing Group* member.
 - <https://www.fing.edu.uy/inco/grupos/pln/>
-

Lead Android Engineer

Xmartlabs

📅 March 2014 – August 2016 📍 Montevideo, Uruguay

- Mainly the development of Android apps (mainly in the projects *Lynkos CRM*, *Feeld* and *Franklin*). Also worked in frontend development with HTML, CSS, Javascript and jQuery, and backend using Ruby, with the Sinatra and Rails frameworks.
 - Maintenance of a local server with several deployments. Docker implementation in several projects.
-

Co-founder & IT Manager

Yojuego

📅 July 2012 – Present 📍 Montevideo, Uruguay

- Side-project that gives a space to players from basketball youth academies from Uruguay. The site presents videos, photos, stats and media coverage for the subject.
 - Management of a Virtual Private Server, Apache web server, MySQL database system and Wordpress web site. Also worked on the product development.
 - <https://yojuego.com.uy>
-

PUBLICATIONS

2 conference and 5 workshop papers. 54 citations and h-index 5 in Google Scholar.

👤 Conference Proceedings

- Castro, Santiago, Devamanyu Hazarika, Verónica Pérez-Rosas, Roger Zimmermann, Rada Mihalcea, and Soujanya Poria (July 2019). “Towards Multimodal Sarcasm Detection (An _Obviously_ Perfect Paper)”. In: *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Florence, Italy: Association for Computational Linguistics. URL: <https://www.aclweb.org/anthology/P19-1455>.
- Castro, Santiago, Matías Cubero, Diego Garat, and Guillermo Moncecchi (2016). “Is This a Joke? Detecting Humor in Spanish Tweets”. In: *Ibero-American Conference on Artificial Intelligence*. **Best Paper Award 2nd place**. Springer, pp. 139–150. DOI: 10.1007/978-3-319-47955-2_12.

👤 Workshop Proceedings

- Chiruzzo, Luis, Santiago Castro, Mathias Etcheverry, Diego Garat, Juan José Prada, and Aiala Rosá (Sept. 2019). “Overview of HAHA at IberLEF 2019: Humor Analysis based on Human Annotation”. In: *Proceedings of the Iberian Languages Evaluation Forum (IberLEF 2019)*. CEUR Workshop Proceedings. Bilbao, Spain: CEUR-WS. URL: http://ceur-ws.org/Vol-2421/HAHA_overview.pdf.

TEACHING

Advanced Data Structures and Algorithms (“Programación 3”)

Universidad de la República

📅 2014 – 2018 📍 Montevideo, Uruguay

Logic Programming (“Programación Lógica”)

Universidad de la República

📅 2016 – 2017 📍 Montevideo, Uruguay

Data Structures and Algorithms (“Programación 2”)

Universidad de la República

📅 2014 – 2015, 2018 📍 Montevideo, Uruguay

THESIS SUPERVISIONS

Machine Classifier System of Answers According to their Relevance (“Sistema clasificador automático de respuestas según relevancia”)

Bachelor of Engineering thesis, Universidad de la República

📅 August 2016 – December 2017

- https://www.fing.edu.uy/inco/grupos/pln/prygrado/SCARR_Documento_Principal.pdf

PROFESSIONAL SERVICES

Reviewer of 4 papers

Humor Analysis based on Human Annotation (HAHA) at the Iberian Languages Evaluation Forum (IberLEF 2019)

📅 2019

Subreviewer of 1 paper

8th International Conference on Affective Computing & Intelligent Interaction (ACII 2019)

📅 2019

Subreviewer of 1 paper

30th International Symposium on Computer Architecture and High Performance Computing (SBAC- PAD 2018)

📅 2018

Reviewer of 2 papers

Humor Analysis based on Human Annotation (HAHA) at the 3rd Workshop on Evaluation of Human Language Technologies for Iberian Languages (IberEval 2018)

📅 2018

- [Castro, Santiago, Jairo Bonanata, and Aiala Rosá \(2018\)](#). “A High Coverage Method for Automatic False Friends Detection for Spanish and Portuguese”. In: *Fifth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2018)*, pp. 29–36. URL: <http://www.aclweb.org/anthology/W18-3903>.
- [Castro, Santiago, Luis Chiruzzo, and Aiala Rosá \(2018\)](#). “Overview of the Haha Task: Humor Analysis based on Human Annotation at IberEval 2018”. In: *Third Workshop on Evaluation of Human Language Technologies for Iberian Languages (IberEval 2018)*. Vol. 2150, pp. 187–194. URL: <http://ceur-ws.org/Vol-2150/overview-HAHA.pdf>.
- [Castro, Santiago, Luis Chiruzzo, Aiala Rosá, Diego Garat, and Guillermo Moncecchi \(2018\)](#). “A crowd-annotated spanish corpus for humor analysis”. In: *Sixth International Workshop on Natural Language Processing for Social Media*, pp. 7–11. URL: <http://www.aclweb.org/anthology/W18-3502>.
- [Rosá, Aiala, Luis Chiruzzo, Mathias Etcheverry, and Santiago Castro \(2017\)](#). “RETUYT in TASS 2017: Sentiment Analysis for Spanish Tweets using SVM and CNN”. in: *Workshop on Semantic Analysis at SEPLN (TASS 2017)*. URL: http://ceur-ws.org/Vol-1896/p9_retuyt_tass2017.pdf.

Theses

- [Castro, Santiago and Matías Cubero \(2015\)](#). “Humor Detection in Spanish Tweets (‘Detección de humor en textos en español’)”. Bachelor’s thesis. Universidad de la República. URL: <http://www.fing.edu.uy/inco/grupos/pln/prygrado/Informepghumor.pdf>.

* Non Refereed

- [Castro, Santiago \(2016\)](#). *Is This a Joke? Detecting Humor in Tweets (‘¿Esto es un chiste? Detección de humor en tuits’)*. Ed. by 9° Foro de Lenguas de ANEP. URL: <http://www.anep.edu.uy/plinguisticas/phocadownload/publicaciones/foros/noveno%20Foro%20%20de%20lenguas.pdf>.

TALKS

A High Coverage Method for Automatic False Friends Detection for Spanish and Portuguese


VarDial 2018 @ COLING 2018

 August 2018

 Santa Fe, New Mexico, USA

A Crowd-Annotated Spanish Corpus for Humor Analysis

SocialNLP 2018 @ ACL 2018

 July 2018

 Melbourne, Australia

Mobile Machine Learning

Machine Learning undergraduate course, Universidad de la República

 May 2018

 Montevideo, Uruguay

Mobile Machine Learning with Bender

Deep Learning Applied to Computer Vision graduate course, Universidad de la República

 October 2017

 Montevideo, Uruguay

Bender: Efficient Execution of Neural Networks in iOS

Open Tech 2017

📅 September 2017

📍 Montevideo, Uruguay

Humor Detection in Tweets

9° Foro de Lenguas de ANEP

📅 December 2016

📍 Montevideo, Uruguay

Is This a Joke? Detecting Humor in Spanish Tweets

IBERAMIA 2016

📅 November 2016

📍 San José, Costa Rica

Automatic Detection of False Friends

2nd Workshop of RITA Project

📅 March 2016

📍 Porto Alegre, Rio Grande do Sul, Brazil

Humor Detection in Spanish Tweets

Seminar of the Computer Science Department, Universidad de la República

📅 June 2015

📍 Montevideo, Uruguay

CONFERENCES & WORKSHOPS ATTENDED

57th Annual Meeting of the Association for Computational Linguistics (ACL 2019)

Fortezza da Basso

📅 July 2019

📍 Florence, Italy

2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2019)

Hyatt Regency

📅 June 2019

📍 Minneapolis, USA

27th International Conference on Computational Linguistics (COLING 2018)

Santa Fe Community Convention Center

📅 August 2018

📍 Santa Fe, New Mexico, USA

5th Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2018)

COLING 2018, Santa Fe Community Convention Center

📅 August 2018

📍 Santa Fe, New Mexico, USA

6th International Workshop on Natural Language Processing for Social Media (SocialNLP 2018)

ACL 2018, Melbourne Convention and Exhibition Centre

📅 July 2018

📍 Melbourne, Australia

56th Annual Meeting of the Association for Computational Linguistics (ACL 2018)

Melbourne Convention and Exhibition Centre

📅 July 2018

📍 Melbourne, Australia

9^o Foro de Lenguas de ANEP

Instituto de Perfeccionamiento y Estudios Superiores

📅 December 2016

📍 Montevideo, Uruguay

16th Ibero-American Conference on Artificial Intelligence (IBERAMIA 2016)

Universidad Nacional de Costa Rica

📅 November 2016

📍 San José, Costa Rica

2nd Workshop of RITA Project – Rich Text Analysis through Enhanced Tools based on Lexical Resources

Universidade Federal do Rio Grande do Sul

📅 March 2016

📍 Porto Alegre, Rio Grande do Sul, Brazil

REFERENCES

Available upon request.

(Resume last update: August 6, 2019)