

Danae Sánchez Villegas

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EDUCATION

The University of Sheffield

Ph.D. in Computer Science, Supervisor: Dr. Nikolaos Aletras

Sheffield, UK

2019–Present

- Natural Language Processing Group (SheffieldNLP)
- UKRI Centre for Doctoral Training in Speech and Language Technologies
- Focus: Multimodal Social Media Analysis

The University of Sheffield

M.Sc. in Computer Science, (Distinction)

Sheffield, UK

2018–2019

- Dissertation: Machine Comprehension Using Commonsense Knowledge

Instituto Tecnológico Autónomo de México

B.Sc. in Computer Engineering, GPA. 8.91/10

Mexico City, MEX

2012–2016

- Dissertation: Time Series Modeling for Stock Market Prediction Using Machine Learning

PROFESSIONAL EXPERIENCE

Amazon

Applied Scientist Intern at Alexa Shopping Science UK

London, UK

Jun 2022–Dec 2022

University of Sheffield – Department of Computer Science

Teaching Assistant

Sheffield, UK

Sep. 2020–Now

- Text Processing COM 3110/4115 (Autumn 2020, 2021).
- Natural Language Processing COM6513 (Spring 2020, 2021, 2022, 2023).

Deep Dive Data Science

Data Scientist

Mexico City, MEX

Mar 2017 – Sep 2018

- Developed data science solutions for financial, insurance and real estate companies using natural language processing, social media analysis and geospatial analysis.

Resuelve

Digital Marketing Trainee

Mexico City, MEX

Nov 2016 – Feb 2017

- Developed a system to help analysts create reports that support their decision-making.

Nanyang Technological University

Research Intern at the SenticNet Laboratory

Singapore, SGP

Summer 2016

- Explored sentiment analysis models using data in English and Spanish

SKILLS

- **NLP/ML Software:** HuggingFace Transformers, NLTK, Keras, Pytorch
- **Programming:** Python, Shell scripting, Java, SQL

LANGUAGES

- **English** Fluent
- **Spanish** Native

TEACHING & ACADEMIC ACTIVITIES

- **Teaching Assistant.** Assist students during practical sessions and grade assessments following a marking criteria set by the Course Leader. 2020–Now
- **Reviewer.** ACL, NACL, EACL, ARR, NLLP Workshop, W-NUT Workshop 2020–Now
- **MSc. Dissertation Co-Supervisor.** Co-supervised Xiao Ao (with Daniel Preotiuc-Pietro and Nikolaos Aletras), a MSc. student from Sheffield University with the project: *Combining Humor and Sarcasm for Improving Political Parody Detection* 2022
- **Equality, Diversity, and Inclusion Analysis.** Data analysis on the gender pay gap and awarding gap in the Computer Science Department of Sheffield University. 2021
- **OxML.** Attended the Oxford Machine Learning Summer School (remote) 2021
- **LxMLS.** Attended the Lisbon Machine Learning Summer School (remote) 2020
- **Code First Girls Instructor** Delivered an introduction to Python programming course (remote) for students who identify as a woman or non-binary and are complete beginners in programming. 2020

INVITED TALKS

- **IDS Research Talk, Maastricht University.** NLP for Computational Social Science Apr 2022
- **Annotation hackathon, Utrecht University** Introduction to machine learning and annotations Apr 2022
- **VVA** Multidisciplinary discussion on the impact of influencers on advertising and consumer protection Nov 2021
- **AI4Dignity Counterathon 2021, LMU** Multidisciplinary discussion on datasets and NLP models for extreme speech detection Jul 2021
- **ITAM Research Seminar** Machine Learning Models for Analyzing Social Media Text Mar 2021
- **Sheffield NLP Seminar** NLP for Computational Social Science Dec 2020

SCHOLARSHIPS AND AWARDS

- **Scholarship,** UKRI Centre for Doctoral Training in Speech and Language Technologies 2019–2023
Tuition fees and stipend for living expenses during Ph.D. studies at the University of Sheffield.
- **Scholarship,** Consejo Nacional de Ciencia y Tecnología (Conacyt) 2018–2019
Stipend for living expenses during my M.Sc. at the University of Sheffield.
- **Honorable Mention,** Ex ITAM Research Award 2018
Research award for my BSc. dissertation.

PUBLICATIONS

- [1] X. Ao, **Sánchez Villegas, Danae**, D. Preotiuc-Pietro, and N. Aletras, “Combining Humor and Sarcasm for Improving Political Parody Detection”, *In Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics*, NAACL, (Accepted 2022).
- [2] **Sánchez Villegas, Danae** and N. Aletras, “Point-of-Interest Type Prediction using Text and Images”, in *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*, Online and Punta Cana, Dominican Republic: Association for Computational Linguistics, Nov. 2021, pp. 7785–7797.
- [3] **Sánchez Villegas, Danae**, S. Mokaram, and N. Aletras, “Analyzing Online Political Advertisements”, in *Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021*, Online: Association for Computational Linguistics, Aug. 2021, pp. 3669–3680.
- [4] A. Maronikolakis, **Sánchez Villegas, Danae**, D. Preotiuc-Pietro, and N. Aletras, “Analyzing Political Parody in Social Media”, in *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*, Online: Association for Computational Linguistics, Jul. 2020, pp. 4373–4384.

- [5] **Sánchez Villegas, Danae**, D. Preotiuc-Pietro, and N. Aletras, “Point-of-Interest Type Inference from Social Media Text”, in *Proceedings of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics*, Online: Association for Computational Linguistics, Dec. 2020, pp. 804–810.