# Danae Sánchez Villegas

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## EDUCATION

**The University of Sheffield** — Sheffield, UK
Ph.D. Speech and Language Technologies CDT, Advisor: Dr. Nikolaos Aletras — 2019–Current
- Research area: Multimodal Social Media Analysis

**The University of Sheffield** — Sheffield, UK
M.Sc. in Computer Science, (Distinction) — 2018–2019
- Dissertation: Machine Comprehension Using Commonsense Knowledge

**Instituto Tecnológico Autónomo de México** — Mexico City, MEX
B.Sc. in Computer Engineering, GPA. 8.91/10 — 2012–2016
- Dissertation: Time Series Modeling for Stock Market Prediction Using Machine Learning Techniques

## WORK EXPERIENCE

**University of Sheffield – Department of Computer Science** — Sheffield, UK
Graduate Teaching Assistant — September 2020-Current
- Assist students during practical sessions of the Text Processing (Autumn 2020, 2021) and Natural Language Processing (Spring 2020, 2021) modules. Mark assignments following a marking criteria set by the Course Leader.
- Data Analysis about gender pay gap and awarding gap for the Equality, Diversity and Inclusion team at the University of Sheffield.

**Code First Girls** — Sheffield, UK
Instructor — Autumn 2020
- Delivered an introduction to Python programming course (remote) for students who identify as a woman or non-binary and are complete beginners in programming.

**Deep Dive Data Science** — Mexico City, MEX
Data Scientist — Mar. 2017 – Sep. 2018
- Social Media and News Analysis: collected posts from social media (e.g. Twitter) and newspaper articles to analyze geo-temporal information of 3 areas in Mexico for a real state consultancy firm.

**SenticNet, Nanyang Technological University** — Singapore, SGP
Undergraduate Research Intern — Summer 2016
- Explored sentiment analysis models using data in English and Spanish

## PUBLICATIONS

[1] X. Ao, **Sánchez Villegas, Danae**, D. Preoţiuc-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.

## Skills

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

## Languages

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

## 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 (Online)  Nov 2021
- **AI4Dignity Counterathon 2021, LMU** Multidisciplinary discussion on datasets and NLP models for extreme speech detection (Online)  Jul 2021
- **ITAM Research Seminar** Machine Learning Models for Analyzing Social Media Text (Online)  Mar 2021
- **Sheffield NLP Seminar** NLP for Computational Social Science (Online)  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.*

## Academic Activities

- **MSc. Dissertation Co-Supervisor**: Co-supervised Xiao Ao (with Daniel Preoţiuc-Pietro and Nikolaos Aletras), a MSc. student from Sheffield University with the project *Combining Humor and Sarcasm for Improving Political Parody Detection*
- **Reviewer**: ARR 2021, NLLP 2021 Workshop, W-NUT Workshop 2021, ACL 2020
- **OxML 2021**: Attended the Oxford Machine Learning Summer School (Online)
- **LxMLS 2020**: Attended the Lisbon Machine Learning Summer School (Online)