

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
– Assisted students during practical sessions of the Text Processing (Autumn 2020, 2021) and Natural Language Processing (Spring 2020, 2021) modules. Marked 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] **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, EMNLP*, (Accepted 2021).

- [2] **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.
- [3] 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.
- [4] **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

- **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

- **Reviewer:** 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)