Danae Sánchez Villegas

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EDUCATION

The University of Sheffield Sheffield, UK Ph.D. in Computer Science. Supervisor: Dr. Nikolaos Aletras 2019-Present - Natural Language Processing Group (SheffieldNLP) - Focus: multimodal social media analysis, data collection, language modelling - Expected Graduation: September 2023 The University of Sheffield Sheffield, UK M.Sc. in Computer Science, (Distinction). Supervisor: Professor Rob Gaizauskas 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. Supervisor: Dr. Fernando Esponda 2012-2016 - Dissertation: Time Series Modeling for Stock Market Prediction Using Machine Learning Professional Experience Amazon London, UK Jun 2022 - Dec 2022 Applied Scientist Intern at Alexa Shopping Science UK

Teaching Assistant - Text Processing COM 3110/4115 (Autumn 2020, 2021).

- Natural Language Processing COM6513 (Spring 2020, 2021, 2022, 2023).

University of Sheffield – Department of Computer Science

Deep Dive Data Science

Data Scientist

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

Resuelve Mexico City, MEX Digital Marketing Trainee Nov 2016 - Feb 2017

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

Nanyang Technological University

Research Intern with the SenticNet Team

- Explored sentiment analysis models using data in English and Spanish.

Summer 2016

SKILLS LANGUAGES

- NLP/ML Software: PyTorch, Tensorflow, HuggingFace Transformers, NLTK, Keras
- Programming: Python, Bash, Java, SQL
- English Fluent
- Spanish Native

Sheffield, UK Sep. 2020 - Now

Mexico City, MEX

Mar 2017 - Sep 2018

Singapore, SGP

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 Preoţiuc-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
ullet VVA Multidisciplinary discussion on the impact of influencers on advertising and consumer protection	on Nov 2021
• AI4Dignity Counterathon 2021, LMU Multidisciplinary discussion on datasets and NLP model for extreme speech detection	s 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 Tuition fees and stipend for living expenses during Ph.D. studies at the University of Sheffield.	2019-2023
•	Scholarship, Consejo Nacional de Ciencia y Tecnología (Conacyt) Stipend for living expenses during my M.Sc. at the University of Sheffield.	2018-2019
•	Honorable Mention, Ex ITAM Research Award Research award for my BSc. dissertation.	2018

PUBLICATIONS

- [1] E. Gow-Smith and **Sánchez Villegas, Danae**, "Sheffield's Submission to the AmericasNLP Shared Task on Machine Translation into Indigenous Languages", in *Proceedings of the Workshop on Natural Language Processing for Indigenous Languages of the Americas*, Toronto, Canada: Association for Computational Linguistics, Jul. 2023.
- [2] X. Ao, Sanchez 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: Human Language Technologies*, Seattle, United States: Association for Computational Linguistics, Jul. 2022, pp. 1800–1807.
- [3] 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.

- [4] **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.
- [5] 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.
- [6] 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.