

# Katerina Margatina

Ph.D. Student in Natural Language Processing

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🐦 Twitter 🏠 Github 🔗 LinkedIn 📖 Google Scholar 📄 Semantic Scholar

## Research Interests

active learning, dynamic adversarial data collection, evaluation & benchmarking, language modeling, robustness, fairness, bias mitigation, crowdsourcing, disagreement, cross-cultural natural language processing

## Education

Oct. 2019 – Ongoing	<b>University of Sheffield, UK</b> <i>Ph.D. in Computer Science</i> <ul style="list-style-type: none"><li>Natural Language Processing Group (<a href="#">SheffieldNLP</a>)</li><li>Supervisors: Dr. <a href="#">Nikolaos Aletras</a> &amp; Dr. <a href="#">Loïc Barrault</a></li><li>Funding: <a href="#">Amazon Alexa Fellowship</a></li><li>Focus: active learning, data collection, uncertainty estimation, language modeling</li><li>Expected Graduation: August 2023</li></ul>
Jan. 2016 – Jul. 2016	<b>Universidad Carlos III de Madrid, Spain</b> <i>MEng in Computer Engineering (Erasmus Mobility in Masters)</i>
Sep. 2012 – Jul. 2019	<b>National Technical University of Athens, Greece</b> <i>BEng &amp; MEng in Electrical and Computer Engineering</i> <ul style="list-style-type: none"><li>GPA: 8.06/10 (top 15%)</li><li>Major: Electronics and Systems</li><li>Speech &amp; Natural Language Processing Group (<a href="#">SLP@NTUA</a>)</li><li>Thesis: “<i>Transfer Learning and Attention-based Conditioning Methods for Natural Language Processing</i>” - supervised by Prof. <a href="#">Alexandros Potamianos</a></li></ul>

## Professional Experience

Jun. 2021 – Feb. 2022	<b>University of Copenhagen, Denmark</b> <i>Research Intern, Visiting Ph.D. in Computer Science</i> <ul style="list-style-type: none"><li>Natural Language Processing Group (<a href="#">CoAStalL</a>)</li><li>Supervisor: Prof. <a href="#">Anders Søgaard</a></li><li>Focus: learning from disagreement, fairness, crowdsourcing, cross-cultural NLP</li></ul>
Feb. 2020 - Jun. 2021	<b>University of Sheffield, UK</b> <i>Teaching Assistant at the Department of Computer Science</i> <ul style="list-style-type: none"><li>COM4513/6513 Natural Language Processing (Feb. 2020 - Jun. 2020)</li><li>COM3110/4115 Text Processing (Oct. 2020 - Feb. 2021)</li><li>COM6513 Natural Language Processing (Feb. 2021 - Jun. 2021)</li></ul>
Nov. 2018 - Jul. 2019	<b>DeepSea Technologies, Piraeus, Greece</b> <i>Machine Learning Engineer</i> <ul style="list-style-type: none"><li>Researched AI-driven models for vessel performance optimisation and voyage optimisation, with and without sensor data.</li><li>Implemented supervised and unsupervised deep neural models and deployed them on the AI platform.</li></ul>

## Publications

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| 2022 | 1. Hershcovich, D. et al. <i>Challenges and Strategies in Cross-Cultural NLP</i> in <i>ACL</i> (2022).                                                                                                                                                                                |
|      | 2. <b>Margatina, K.</b> , Barrault, L. & Aletras, N. <i>On the Importance of Effectively Adapting Pretrained Language Models for Active Learning</i> in <i>ACL</i> (2022).                                                                                                            |
| 2021 | 3. <b>Margatina, K.</b> , Vernikos, G., Barrault, L. & Aletras, N. <i>Active Learning by Acquiring Contrastive Examples</i> in <i>EMNLP</i> (2021).                                                                                                                                   |
|      | 4. Yamaguchi, A., Chrysostomou, G., <b>Margatina, K.</b> & Aletras, N. <i>Frustratingly Simple Alternatives to Masked Language Modeling</i> in <i>EMNLP</i> (2021).                                                                                                                   |
| 2020 | 5. Vernikos, G., <b>Margatina, K.</b> , Chronopoulou, A. & Androutsopoulos, I. <i>Domain Adversarial Fine-Tuning as an Effective Regularizer</i> in <i>Findings of EMNLP</i> (2020).                                                                                                  |
| 2019 | 6. <b>Margatina, K.</b> <i>Transfer Learning and Attention-based Conditioning Methods for Natural Language Processing</i> . Thesis, NTUA (2019).                                                                                                                                      |
|      | 7. <b>Margatina, K.</b> , Baziotis, C. & Potamianos, A. <i>Attention-based Conditioning Methods for External Knowledge Integration</i> in <i>ACL</i> (2019).                                                                                                                          |
| 2018 | 8. Chronopoulou*, A., Margatina*, K., Baziotis, C. & Potamianos, A. <i>NTUA-SLP at IEST 2018: Ensemble of Neural Transfer Methods for Implicit Emotion Classification</i> in <i>Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis</i> (2018). |

## Teaching & Other Academic Experience

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| 2022 -<br>Ongoing | <b>Workshop Co-Organiser</b> <ul style="list-style-type: none"><li>DADC: The First Workshop on Dynamic Adversarial Data Collection at NAACL 2022 (<a href="#">website</a>)</li></ul>                                                                                                                                                                             |
| 2021              | <b>MSc. Dissertation Co-Supervisor</b> <ul style="list-style-type: none"><li>Co-supervised <a href="#">Atsuki Yamaguchi</a> (with George Chrysostomou and Dr. Nikolaos Aletras), a MSc student from the University of Sheffield with the project <i>Frustratingly Simple Alternatives to Masked Language Modeling</i>.</li></ul>                                 |
| 2019 -<br>Ongoing | <b>Teaching Assistant</b> <ul style="list-style-type: none"><li>Assisted students during the lab sessions of the Text Processing and Natural Language Processing modules.</li><li>Marked lab reports following a pre-determined scheme set by the Course Leader.</li><li>Experience in face-to-face teaching with students that needed extra guidance.</li></ul> |
| 2018 -<br>Ongoing | <b>Program Committee/Reviewer</b> <ul style="list-style-type: none"><li>ACL, EMNLP, NAACL, EACL, AACL, WASSA, NLLP</li></ul>                                                                                                                                                                                                                                     |

## Programming Skills

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**Languages (excellent):** Python, Bash

**Languages (familiar with):** C, C++, Matlab, SQL, Java

**Machine Learning Frameworks:** PyTorch, Tensorflow, Keras

**Natural Language Processing Frameworks:** HuggingFace, AllenNLP

**Other:**  $\LaTeX$ , Unix, Git, Flask

## Languages

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Greek (*Native*), English (*C2*), Spanish (*B2*), French (*B1*)

## Honors & Awards

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- 2020 | **EMNLP:** Awarded a scholarship of \$100 to participate to the virtual Conference on Empirical Methods in Natural Language Processing ([EMNLP 2020](#)).
- MLSS:** Selected to participate to the highly competitive Machine Learning Summer School ([MLSS](#)) organized by the Max Planck Institute for Intelligent Systems (180 out of 1300+ applications were accepted).
- 2019 | **Amazon Alexa Fellowship:** Awarded an [Amazon Alexa Fellowship](#) for a 3-year Ph.D. program at the University of Sheffield under the supervision of Dr. Nikolaos Aletras.
- EETN Scholarship Award:** Awarded a scholarship of 300€ from the Hellenic Artificial Intelligence Society (EETN) to attend the first Athens Natural Language Processing Summer School ([AthNLP](#)).
- ACM-W Scholarship Award:** Awarded an ACM-W scholarship [[link](#)] of \$600 to attend the Annual Meeting of the Association for Computational Linguistics in Florence ([ACL 2019](#)).
- 2018 | **WASSA IEST:** Ranked 3<sup>rd</sup> out of 30 participants at the WASSA 2018 Implicit Emotion Shared Task ([IEST](#)) conducted by the [EMNLP 2018](#) Conference.