

# Katerina Margatina

Ph.D. Student in Natural Language Processing

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🐦 [Twitter](#) 🐙 [Github](#) 🔗 [LinkedIn](#) 🎓 [Scholar](#) 🌐 <https://katerinamargatina.github.io>

## Research Interests

machine learning, deep learning, uncertainty estimation, transfer learning, active learning, semi-supervised learning, natural language understanding, interpretability, language modeling, robustness, fairness

## Education

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| Jun. 2021 – Ongoing   | <b>University of Copenhagen, Denmark</b><br><i>Visiting Ph.D. in Computer Science</i> <ul style="list-style-type: none"><li>Natural Language Processing Group (<a href="#">CoAStAL</a>)</li><li>Supervisor: Prof. <a href="#">Anders Søgaard</a></li><li>Focus: learning from disagreement, multiplicity, fairness, item response theory</li></ul>   |
| Oct. 2019 – Ongoing   | <b>University of Sheffield, UK</b><br><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: transfer learning, active learning, uncertainty estimation, language modeling, natural language understanding</li><li>Expected Graduation: December 2022</li></ul>   |
| Sep. 2012 – Jul. 2019 | <b>National Technical University of Athens, Greece</b><br><i>MEng &amp; BEng 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>Coursework: neural networks, pattern recognition, natural language processing, computer vision, robotics, neuro-fuzzy robotic control, digital signal processing</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> |
| Jan. 2016 – Jul. 2016 | <b>Universidad Carlos III de Madrid, Spain</b><br><i>MEng in Computer Engineering (Erasmus Mobility in Masters)</i>  |
| Sep. 2009 – Jul. 2012 | <b>Arsakeio Psychikou, Greece</b><br><i>Secondary Education</i> <ul style="list-style-type: none"><li>GPA: 19.8/20 (excellent)</li><li>Nationwide University Entrance Examination: 19.25/20 (top 1% nationwide)</li></ul>  |

## Work Experience

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| Feb. 2020 - Ongoing   | <b>University of Sheffield, UK</b><br><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><br><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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| 2021 | 1. <b>Margatina, K.</b> , Barrault, L. & Aletras, N. <i>Bayesian Active Learning with Pretrained Language Models</i> in ArXiv (2021).  |
|      | 2. <b>Margatina, K.</b> , Vernikos, G., Barrault, L. & Aletras, N. <i>Active Learning by Acquiring Contrastive Examples</i> in EMNLP (2021).   |
|      | 3. Yamaguchi, A., Chrysostomou, G., <b>Margatina, K.</b> & Aletras, N. <i>Frustratingly Simple Alternatives to Masked Language Modeling</i> in EMNLP (2021).   |
| 2020 | 4. Vernikos, G., <b>Margatina, K.</b> , Chronopoulou, A. & Androutsopoulos, I. <i>Domain Adversarial Fine-Tuning as an Effective Regularizer</i> in Findings of EMNLP (2020).  |
| 2019 | 5. <b>Margatina, K.</b> <i>Transfer Learning and Attention-based Conditioning Methods for Natural Language Processing</i> . Thesis, NTUA (2019).   |
|      | 6. <b>Margatina, K.</b> , Baziotis, C. & Potamianos, A. <i>Attention-based Conditioning Methods for External Knowledge Integration</i> in ACL (2019).  |
| 2018 | 7. 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 Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (2018). |

## Teaching & Other Academic Experience

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| 2021 - Ongoing | <b>MSc. Dissertation Co-Supervisor</b> <ul style="list-style-type: none"><li>• Co-supervised <b>Atsuki Yamaguchi</b> (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 - 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 - Ongoing | <b>Program Committee/Reviewer</b> <ul style="list-style-type: none"><li>• ACL, EMNLP, NAACL, EACL, AACL, WASSA, NLLP</li></ul>   |

## 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.

## 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 transformers, AllenNLP

**Other**:  $\text{\LaTeX}$ , Unix, Git, Flask

## Languages

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

## Personal Interests

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Traveling, Tennis, Bouldering, Hiking, Skiing, Sailing, Cinema, Theater, Literature