

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, evaluation & benchmarking

Education

Jun. 2021 – Ongoing	University of Copenhagen, Denmark <i>Visiting Ph.D. in Computer Science</i> <ul style="list-style-type: none">Natural Language Processing Group (CoAStAL)Supervisor: Prof. Anders SøgaardFocus: learning from disagreement, multiplicity, fairness, item response theory
Oct. 2019 – Ongoing	University of Sheffield, UK <i>Ph.D. in Computer Science</i> <ul style="list-style-type: none">Natural Language Processing Group (SheffieldNLP)Supervisors: Dr. Nikolaos Aletras & Dr. Loïc BarraultFunding: Amazon Alexa FellowshipFocus: transfer learning, active learning, uncertainty estimation, language modeling, natural language understandingExpected Graduation: December 2022
Sep. 2012 – Jul. 2019	National Technical University of Athens, Greece <i>MEng & BEng in Electrical and Computer Engineering</i> <ul style="list-style-type: none">GPA: 8.06/10 (top 15%)Major: Electronics and SystemsCoursework: neural networks, pattern recognition, natural language processing, computer vision, robotics, neuro-fuzzy robotic control, digital signal processingSpeech & Natural Language Processing Group (SLP@NTUA)Thesis: “<i>Transfer Learning and Attention-based Conditioning Methods for Natural Language Processing</i>” - supervised by Prof. Alexandros Potamianos
Jan. 2016 – Jul. 2016	Universidad Carlos III de Madrid, Spain <i>MEng in Computer Engineering (Erasmus Mobility in Masters)</i>
Sep. 2009 – Jul. 2012	Arsakeio Psychikou, Greece <i>Secondary Education</i> <ul style="list-style-type: none">GPA: 19.8/20 (excellent)Nationwide University Entrance Examination: 19.25/20 (top 1% nationwide)

Work Experience

Feb. 2020 - Ongoing	University of Sheffield, UK <i>Teaching Assistant at the Department of Computer Science</i> <ul style="list-style-type: none">• COM4513/6513 Natural Language Processing (Feb. 2020 - Jun. 2020)• COM3110/4115 Text Processing (Oct. 2020 - Feb. 2021)• COM6513 Natural Language Processing (Feb. 2021 - Jun. 2021)
Nov. 2018 - Jul. 2019	DeepSea Technologies, Piraeus, Greece <i>Machine Learning Engineer</i> <ul style="list-style-type: none">• Researched AI-driven models for vessel performance optimisation and voyage optimisation, with and without sensor data.• Implemented supervised and unsupervised deep neural models and deployed them on the AI platform.

Publications

2021	1. Margatina, K. , Barrault, L. & Aletras, N. <i>Bayesian Active Learning with Pretrained Language Models</i> in ArXiv (2021).
	2. Margatina, K. , Vernikos, G., Barrault, L. & Aletras, N. <i>Active Learning by Acquiring Contrastive Examples</i> in EMNLP (2021).
	3. Yamaguchi, A., Chrysostomou, G., Margatina, K. & Aletras, N. <i>Frustratingly Simple Alternatives to Masked Language Modeling</i> in EMNLP (2021).
2020	4. Vernikos, G., Margatina, K. , Chronopoulou, A. & Androutsopoulos, I. <i>Domain Adversarial Fine-Tuning as an Effective Regularizer</i> in Findings of EMNLP (2020).
2019	5. Margatina, K. <i>Transfer Learning and Attention-based Conditioning Methods for Natural Language Processing</i> . Thesis, NTUA (2019).
	6. Margatina, K. , 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

2021 - Ongoing	MSc. Dissertation Co-Supervisor <ul style="list-style-type: none">• Co-supervised Atsuki Yamaguchi (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>.
2019 - Ongoing	Teaching Assistant <ul style="list-style-type: none">• Assisted students during the lab sessions of the Text Processing and Natural Language Processing modules.• Marked lab reports following a pre-determined scheme set by the Course Leader.• Experience in face-to-face teaching with students that needed extra guidance.
2018 - Ongoing	Program Committee/Reviewer <ul style="list-style-type: none">• ACL, EMNLP, NAACL, EACL, AACL, WASSA, NLLP

Honors & Awards

- 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 3rd out of 30 participants at the WASSA 2018 Implicit Emotion Shared Task (**IEST**) conducted by the **EMNLP 2018** Conference.

Programming Skills

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: \LaTeX , Unix, Git, Flask

Languages

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

Personal Interests

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