Katerina Margatina

Ph.D. Student in Natural Language Processing

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🐦 Twitter   Github   🔗 LinkedIn   G Scholar   🌐 https://katerinamargatina.github.io

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	**University of Sheffield**, UK
	Ph.D. in Computer Science
	• Natural Language Processing Group (SheffieldNLP)
	• Supervisors: Dr. Nikolaos Aletras & Dr. Loïc Barrault
	• Funding: Amazon Alexa Fellowship
	• Focus: active learning, data collection, uncertainty estimation, language modeling
	• Expected Graduation: August 2023
Jan. 2016 – Jul. 2016	**Universidad Carlos III de Madrid**, Spain
	MEng in Computer Engineering (Erasmus Mobility in Masters)
Sep. 2012 – Jul. 2019	**National Technical University of Athens**, Greece
	MEng & BEng in Electrical and Computer Engineering
	• GPA: 8.06/10 (top 15%)
	• Major: Electronics and Systems
	• Speech & Natural Language Processing Group (SLP@NTUA)
	• Thesis: "*Transfer Learning and Attention-based Conditioning Methods for Natural Language Processing*" - supervised by Prof. Alexandros Potamianos

Professional Experience

Jun. 2021 – Feb. 2022	**University of Copenhagen**, Denmark
	Research Intern, Visiting Ph.D. in Computer Science
	• Natural Language Processing Group (CoAStaL)
	• Supervisor: Prof. Anders Søgaard
	• Focus: learning from disagreement, fairness, crowdsourcing, cross-cultural NLP
Feb. 2020 - Jun. 2021	**University of Sheffield**, UK
	Teaching Assistant at the Department of Computer Science
	• 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
	Machine Learning Engineer
	• 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

2022

1. Hershcovich, D. *et al. Challenges and Strategies in Cross-Cultural NLP* in *ACL* (2022).

2. **Margatina, K.**, Barrault, L. & Aletras, N. *On the Importance of Effectively Adapting Pretrained Language Models for Active Learning* in *ACL* (2022).

2021

3. **Margatina, K.**, Vernikos, G., Barrault, L. & Aletras, N. *Active Learning by Acquiring Contrastive Examples* in *EMNLP* (2021).

4. Yamaguchi, A., Chrysostomou, G., **Margatina, K.** & Aletras, N. *Frustratingly Simple Alternatives to Masked Language Modeling* in *EMNLP* (2021).

2020

5. Vernikos, G., **Margatina, K.**, Chronopoulou, A. & Androutsopoulos, I. *Domain Adversarial Fine-Tuning as an Effective Regularizer* in *Findings of EMNLP* (2020).

2019

6. **Margatina, K.** *Transfer Learning and Attention-based Conditioning Methods for Natural Language Processing. Thesis, NTUA* (2019).

7. **Margatina, K.**, Baziotis, C. & Potamianos, A. *Attention-based Conditioning Methods for External Knowledge Integration* in *ACL* (2019).

2018

8. Chronopoulou*, A., Margatina*, K., Baziotis, C. & Potamianos, A. *NTUA-SLP at IEST 2018: Ensemble of Neural Transfer Methods for Implicit Emotion Classification* in *Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis* (2018).

Teaching & Other Academic Experience

2022 - Ongoing

Workshop Co-Organiser
- DADC: The First Workshop on Dynamic Adversarial Data Collection at NAACL 2022 (website)

2021

MSc. Dissertation Co-Supervisor
- Co-supervised Atsuki Yamaguchi (with George Chrysostomou and Dr. Nikolaos Aletras), a MSc student from the University of Sheffield with the project *Frustratingly Simple Alternatives to Masked Language Modeling*.

2019 - Ongoing

Teaching Assistant
- 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
- ACL, EMNLP, NAACL, EACL, AACL, WASSA, NLLP

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, AllenNLP
Other: LaTeX, Unix, Git, Flask

Languages

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

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 3$^{\text{rd}}$ out of 30 participants at the WASSA 2018 Implicit Emotion Shared Task (IEST) conducted by the EMNLP 2018 Conference.