

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 processing, machine understanding and reasoning, interpretability, language modeling, fairness

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 understanding
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.
Sep. 2015 - Jul. 2019	Freelancer, Athens, Greece <i>Private Tutor</i> <ul style="list-style-type: none">• Mathematics, Physics & Circuits Teacher

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

Publications

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| 2021 | 1. Margatina, K. , Barrault, L. & Aletras, N. <i>Bayesian Active Learning with Pretrained Language Models</i> in <i>ArXiv</i> (2021). |
| | 2. Margatina, K. , Vernikos, G., Barrault, L. & Aletras, N. <i>Active Learning by Acquiring Contrastive Examples</i> in <i>EMNLP</i> (2021). |
| | 3. Yamaguchi, A., Chrysostomou, G., Margatina, K. & Aletras, N. <i>Frustratingly Simple Alternatives to Masked Language Modeling</i> in <i>EMNLP</i> (2021). |
| 2020 | 4. Vernikos, G., Margatina, K. , Chronopoulou, A. & Androutsopoulos, I. <i>Domain Adversarial Fine-Tuning as an Effective Regularizer</i> in <i>Findings of EMNLP</i> (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 <i>ACL</i> (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 <i>Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis</i> (2018). |

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

Programming Skills

Languages (excellent): Python, C, MATLAB, Bash

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

Machine Learning Frameworks: PyTorch, Tensorflow, Keras

Other: \LaTeX , Unix, Git, Flask

Languages

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

Personal Interests

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