

Alexandra Chronopoulou

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Research Interests

Efficient Transfer Learning, Machine Translation & Multilingual Natural Language Processing, Modular Representation Learning, Domain Adaptation, Unsupervised & Low-Resource Learning

Education

- PhD in Computer Science** **Munich, Germany**
University of Munich (Ludwig-Maximilians-Universität München) *09/2019-present*
- Natural Language Processing Group ([CIS](#))
 - Focus: Low-Resource Machine Translation and Parameter-Efficient Transfer Learning
 - Supervisor: [Alexander Fraser](#)
- Erasmus Exchange Student Program** **Barcelona, Spain**
Polytechnic University of Catalonia (UPC) *01/2016-06/2016*
- Relevant Coursework: Pattern Recognition, Mobile Robots and Navigation
- Diploma (BEng & MEng) in Electrical and Computer Engineering** **Athens, Greece**
National Technical University of Athens *09/2012-02/2019*
- GPA : 8.0/10 (top 15%)
 - Thesis: [Transfer Learning with Deep Neural Networks for Sentiment Analysis and Semantic Modeling](#)
 - Supervisor: [Alexandros Potamianos](#)

Professional Experience

- Applied Science Intern** **Santa Clara, CA, USA**
Amazon Web Services *08/2022-12/2022*
- I worked on speech translation with [Prashant Mathur](#), [Brian Thompson](#) and [Marcello Federico](#) (Amazon AI language technology group).
- Research Intern** **Seattle, WA, USA (remote)**
Allen Institute for Artificial Intelligence *05/2022-08/2022*
- I worked on parameter-efficient transfer learning for large language models with [Jesse Dodge](#), [Matt Peters](#), and my advisor Alex Fraser. Our paper will be published in EACL 2023 (findings).
- Research Intern** **Seattle, WA, USA (remote)**
Allen Institute for Artificial Intelligence *07/2021-01/2022*
- I worked on efficient domain adaptation for large language models, supervised by Jesse Dodge and Matt Peters (AllenNLP team). Our paper was published in NAACL 2022.
- Machine Learning Engineer** **Los Angeles, CA, USA (remote)**
Behavioral Signal Technologies Inc. *11/2018-07/2019*
- Basic emotion recognition from conversational data.
- Software Engineer Intern** **Athens, Greece**
NOKIA R&D *07/2017-01/2018*
- Prediction of code fault-proneness based on data from internal team projects.

Publications

- [1] [Chronopoulou, A.](#), Peters, M., Fraser, A., Dodge, J. (2023). AdapterSoup: Weight Averaging to Improve Generalization of Pretrained Language Models. EACL 2023 Findings. [\[paper\]](#)

- [2] Lai, W., **Chronopoulou, A.**, Fraser, A. (2022). *m⁴Adapter*: Multilingual Multi-Domain Adaptation for Machine Translation with a Meta-Adapter. EMNLP 2022 Findings. [\[paper\]](#)
- [3] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2022). Language-Family Adapters for Multilingual Neural Machine Translation. arXiv pre-print. [\[paper\]](#)
- [4] **Chronopoulou, A.**, Peters, M., Dodge, J. (2022). Efficient Hierarchical Domain Adaptation for Pretrained Language Models. NAACL 2022. [\[paper\]](#) [\[code\]](#)
- [5] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2021). Improving the Lexical Ability of Pretrained Language Models for Unsupervised Neural Machine Translation. NAACL 2021. [\[paper\]](#) [\[code\]](#)
- [6] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2020). Reusing a Pretrained Language Model on Languages with Limited Corpora for Unsupervised Neural Machine Translation. EMNLP 2020. [\[paper\]](#) [\[code\]](#)
- [7] Vernikos, G., Margatina, K., **Chronopoulou, A.**, Androutsopoulos, I. (2020). Domain Adversarial Fine-Tuning as an Effective Regularizer. EMNLP 2020 Findings. [\[paper\]](#) [\[code\]](#)
- [8] **Chronopoulou, A.**, Stojanovski, D., Hangya, V., Fraser, A. (2020). The LMU Munich System for the WMT 2020 Unsupervised Machine Translation Shared Task. WMT 2020. [\[paper\]](#) [\[code\]](#)
- [9] **Chronopoulou, A.**, Baziotis, C., Potamianos, A. (2019). An Embarrassingly Simple Approach for Transfer Learning from Pretrained Language Models. NAACL 2019. [\[paper\]](#) [\[code\]](#)
- [10] **Chronopoulou, A.***, Margatina, K.*, Baziotis, C., Potamianos, A. (2018). Ensemble of Neural Transfer Methods for Implicit Emotion Classification. WASSA 2018. [\[paper\]](#) [\[code\]](#)
- [11] Baziotis, C., Athanasiou, N., **Chronopoulou, A.**, Kolovou, A., Paraskevopoulos, G., Ellinas, N., Narayanan, S., Potamianos, A. (2018). NTUA-SLP at SemEval-2018 Task 1: Predicting Affective Content in Tweets with Deep Attentive RNNs and Transfer Learning. SemEval 2018. [\[paper\]](#) [\[code\]](#)

Honors and Awards

○ Competitions

Ranked 1st in [WMT 2020 Unsupervised Task](#). The task was translation for German-Sorbian in both directions.
 Ranked 3rd at the [WASSA 2018 Implicit Emotion Shared Task \(IEST\)](#).
 Ranked 1st at the [SemEval 2018 Task1E: Affect in Tweets](#).

○ Travel awards

Travel grant from Facebook to attend inaugural [EurNLP 2019](#) summit in London, UK.
 Awarded a scholarship from the [Hellenic Artificial Intelligence Society](#) to attend the 1st Athens Natural Language Processing Summer School ([AthNLP 2019](#)).
 Awarded an [ACM-W scholarship](#) to attend the conference of the North American Chapter of the Association for Computational Linguistics in Minneapolis, MN, USA ([NAACL 2019](#)).

Programming Skills

- **Languages (excellent):** Python, Bash
- **Languages (familiar with):** Matlab, SQL
- **Machine learning frameworks:** PyTorch, Tensorflow, keras
- **Natural language processing frameworks:** fairseq, HuggingFace
- **Other:** Git, Docker

Languages

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