

Alexandra Chronopoulou

Oettingenstrasse 67, 80538 Munich, Germany

✉ achron@cis.lmu.de • alexandra-chron.github.io • [google scholar](#) • [in linkedin](#)

Research Interests

machine translation & multilingual natural language processing, domain adaptation, unsupervised & low-resource learning, modular representation learning, parameter-efficient fine-tuning

Education

PhD in Computer Science

Ludwig Maximilian University of Munich

Munich, Germany

09/2019-present

- Natural Language Processing Group (CIS)
- Focus: Low-Resource Machine Translation and Parameter-Efficient Transfer Learning
- Supervisor: [Alexander Fraser](#)

Visiting Student, MEng

Polytechnic University of Catalonia (UPC)

Barcelona, Spain

01/2016-06/2016

Diploma (BEng & MEng) in Electrical and Computer Engineering

National Technical University of Athens

Athens, Greece

09/2012-02/2019

- GPA : 8.0/10 (top 15%)
- Thesis title: "Transfer Learning with Deep Neural Networks for Sentiment Analysis and Semantic Modeling"
- Supervisor: [Alexandros Potamianos](#)

Professional Experience

Applied Scientist Intern

Amazon Research

Santa Clara, CA, USA

08/2022-12/2022

I worked on isochronous speech translation for automatic dubbing (Amazon Translate team).

Research Intern

Allen Institute for Artificial Intelligence

Seattle, WA, USA (remote)

05/2022-08/2022

I worked on domain adaptation for language models using weight-space averaging of adapters (AllenNLP team). The paper was accepted at the findings of EACL 2023.

Research Intern

Allen Institute for Artificial Intelligence

Seattle, WA, USA (remote)

07/2021-01/2022

I worked on efficiently adapting language models using a hierarchical clustering of domains (AllenNLP team). The paper was accepted at NAACL 2022.

Machine Learning Engineer

Behavioral Signal Technologies Inc.

Los Angeles, CA, USA (remote)

11/2018-07/2019

Basic emotion recognition from conversational data.

Software Engineer Intern

NOKIA R&D

Athens, Greece

07/2017-01/2018

Prediction of code fault-proneness based on data from internal team projects.

Publications

- [1] [Chronopoulou, A.](#), Thompson, B., Mathur, P., Virkar, Y., Lakew, S. M., Federico, M. (2023). Jointly Optimizing Translations and Speech Timing to Improve Isochrony in Automatic Dubbing. arXiv pre-print. [\[paper\]](#)
- [2] [Chronopoulou, A.](#), Peters, M., Fraser, A., Dodge, J. (2023). AdapterSoup: Weight Averaging to Improve Generalization of Pretrained Language Models. EACL 2023 Findings. [\[paper\]](#)

- [3] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2023). Language-Family Adapters for Low-Resource Multilingual Neural Machine Translation. LoResMT 2023. [\[paper\]](#)
- [4] Lai, W., **Chronopoulou, A.**, Fraser, A. (2022). m^4 Adapter: Multilingual Multi-Domain Adaptation for Machine Translation with a Meta-Adapter. EMNLP 2022 Findings. [\[paper\]](#) [\[code\]](#)
- [5] **Chronopoulou, A.**, Peters, M., Dodge, J. (2022). Efficient Hierarchical Domain Adaptation for Pretrained Language Models. NAACL 2022. [\[paper\]](#) [\[code\]](#)
- [6] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2021). Improving the Lexical Ability of Pretrained Language Models for Unsupervised Neural Machine Translation. NAACL 2021. [\[paper\]](#) [\[code\]](#)
- [7] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2020). Reusing a Pretrained Language Model on Languages with Limited Corpora for Unsupervised Neural Machine Translation. EMNLP 2020. [\[paper\]](#) [\[code\]](#)
- [8] Vernikos, G., Margatina, K., **Chronopoulou, A.**, Androutsopoulos, I. (2020). Domain Adversarial Fine-Tuning as an Effective Regularizer. EMNLP 2020 Findings. [\[paper\]](#) [\[code\]](#)
- [9] **Chronopoulou, A.**, Stojanovski, D., Hangya, V., Fraser, A. (2020). The LMU Munich System for the WMT 2020 Unsupervised Machine Translation Shared Task. WMT 2020. [\[paper\]](#) [\[code\]](#)
- [10] **Chronopoulou, A.**, Baziotis, C., Potamianos, A. (2019). An Embarrassingly Simple Approach for Transfer Learning from Pretrained Language Models. NAACL 2019. [\[paper\]](#) [\[code\]](#)
- [11] **Chronopoulou, A.***, Margatina, K.*, Baziotis, C., Potamianos, A. (2018). NTUA-SLP at IEST 2018: Ensemble of Neural Transfer Methods for Implicit Emotion Classification. WASSA 2018. [\[paper\]](#) [\[code\]](#)
- [12] 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. [\[paper\]](#) [\[code\]](#)

Invited Talks

Lilt AI: Efficient hierarchical domain adaptation of pretrained language models ([slides](#)) Sep 2022
ELRC Workshop on LLMs: Language-family adapters for multilingual machine translation ([slides](#)) Jun 2022

Teaching Experience

Ludwig Maximilian University of Munich **Munich, Germany**
Supervision of BA and MA thesis, tutor on Information Extraction, Machine Translation 09/2019-present

Honors and Awards

○ Competitions

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

○ 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 [AthNLP 2019](#).
 Awarded an [ACM-W scholarship](#) to attend [NAACL 2019](#).
 Erasmus Exchange Student Program (01/2016/-06/2016) to visit UPC in Barcelona, Spain.

Programming Skills

Languages: Python, Bash (excellent) / C, C++, Matlab, SQL, Java (familiar with)
ML & NLP frameworks: PyTorch, Fairseq, HuggingFace, Tensorflow, keras, AllenNLP

Languages

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