

# Alexandra Chronopoulou

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## Research Interests

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

## Education

### PhD in Computer Science

Ludwig Maximilian University of Munich

Munich, Germany

09/2019-present

- Natural Language Processing Group (CIS)
- Supervisor: [Alexander Fraser](#)
- Thesis: "Efficient Multilingual and Domain Adaptation of Language Models under Resource Constraints"
- Expected Graduation: January 2024

### 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 : "Transfer Learning with Deep Neural Networks for Sentiment Analysis and Semantic Modeling"
- Thesis Supervisor: [Alexandros Potamianos](#)

## Professional Experience

### Google DeepMind

Research Scientist Intern

Berlin, Germany

04/2023-07/2023

Research on multilingual NLP using large language models

Supervisors: [Sebastian Ruder](#), [Priyanka Agrawal](#)

### Amazon AI

Applied Scientist Intern

Santa Clara, CA, USA

08/2022-12/2022

Research on isochronous speech translation (Amazon Translate team)

Supervisors: [Prashant Mathur](#), [Brian Thompson](#), [Marcello Federico](#)

### Allen Institute for Artificial Intelligence

Research Scientist Intern

Seattle, WA, USA (remote)

05/2022-08/2022

Research on arithmetic (weight-space) composition of adapters (AllenNLP team)

Supervisors: [Jesse Dodge](#), [Matthew E. Peters](#)

### Allen Institute for Artificial Intelligence

Research Scientist Intern

Seattle, WA, USA (remote)

07/2021-01/2022

Research on hierarchical adapters for domain adaptation (AllenNLP team)

Supervisors: [Jesse Dodge](#), [Matthew E. Peters](#)

### Behavioral Signal Technologies Inc.

Machine Learning Engineer

Los Angeles, CA, USA (remote)

11/2018-07/2019

Basic emotion recognition from conversational data

### NOKIA R&D

Software Engineer Intern

Athens, Greece

07/2017-01/2018

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

## Publications

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- [1] Agarwal, M., ..., **Chronopoulou, A.**, et al. (2023). Findings of the IWSLT 2023 Evaluation Campaign. (50+ authors). IWSLT 2023. [\[paper\]](#)
- [2] Liu, Y., **Chronopoulou, A.**, Schütze, H., Fraser, A. (2023). On the Copying Problem of Unsupervised NMT: A Training Schedule with a Language Discriminator Loss. IWSLT 2023. [\[paper\]](#)
- [3] Lai, W., **Chronopoulou, A.**, Fraser, A. (2023). Mitigating Data Imbalance and Representation Degeneration in Multilingual Machine Translation. EMNLP 2023 Findings. [\[paper\]](#)
- [4] Pal, P., Thompson, B., Virkar, Y., Mathur, P., **Chronopoulou, A.**, Federico, M. (2023). Improving Isochronous Machine Translation with Target Factors and Auxiliary Counters. INTERSPEECH 2023. [\[paper\]](#)
- [5] **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. [\[paper\]](#)
- [6] **Chronopoulou, A.**, Peters, M., Fraser, A., Dodge, J. (2023). AdapterSoup: Weight Averaging to Improve Generalization of Pretrained Language Models. EACL 2023 Findings. [\[paper\]](#)
- [7] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2023). Language-Family Adapters for Low-Resource Multilingual Neural Machine Translation. LoResMT 2023. [\[paper\]](#)
- [8] Lai, W., **Chronopoulou, A.**, Fraser, A. (2022). *m<sup>4</sup>Adapter*: Multilingual Multi-Domain Adaptation for Machine Translation with a Meta-Adapter. EMNLP 2022 Findings. [\[paper\]](#) [\[code\]](#)
- [9] **Chronopoulou, A.**, Peters, M., Dodge, J. (2022). Efficient Hierarchical Domain Adaptation for Pretrained Language Models. NAACL 2022. [\[paper\]](#) [\[code\]](#)
- [10] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2021). Improving the Lexical Ability of Pretrained Language Models for Unsupervised Neural Machine Translation. NAACL 2021. [\[paper\]](#) [\[code\]](#)
- [11] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2020). Reusing a Pretrained Language Model on Languages with Limited Corpora for Unsupervised Neural Machine Translation. EMNLP 2020. [\[paper\]](#) [\[code\]](#)
- [12] Vernikos, G., Margatina, K., **Chronopoulou, A.**, Androutsopoulos, I. (2020). Domain Adversarial Fine-Tuning as an Effective Regularizer. EMNLP 2020 Findings. [\[paper\]](#) [\[code\]](#)
- [13] **Chronopoulou, A.**, Stojanovski, D., Hangya, V., Fraser, A. (2020). The LMU Munich System for the WMT 2020 Unsupervised Machine Translation Shared Task. WMT 2020. [\[paper\]](#) [\[code\]](#)
- [14] **Chronopoulou, A.**, Baziotis, C., Potamianos, A. (2019). An Embarrassingly Simple Approach for Transfer Learning from Pretrained Language Models. NAACL 2019. [\[paper\]](#) [\[code\]](#)
- [15] **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. [\[paper\]](#) [\[code\]](#)
- [16] 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

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**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 & Other Academic Experience

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- **Program Committee**

The 20th International Conference on Spoken Language Translation ([IWSLT 2023](#))  
8th Workshop on Representation Learning for NLP ([Repl4NLP 2023](#))

- **Teaching**

Supervision of BA/MA theses at LMU Munich (2019-present)  
Tutor on courses: Information Extraction, Machine Translation at LMU Munich (2019-present)

- **Reviewer**

ACL, EMNLP, NAACL, EACL, WMT, IWSLT, Repl4NLP (2018-present)

## Honors & Awards

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

## Programming Skills

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**Languages:** Python, Bash (excellent) / C, C++, Matlab, SQL, Java (familiar with)

**ML & NLP frameworks:** PyTorch, Jax, Fairseq, HuggingFace, Tensorflow, Keras, AllenNLP

## Languages

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