

# Alexandra Chronopoulou

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## Research Interests

LLM instruction following and evaluation, parameter-efficient fine-tuning, domain adaptation, machine translation & multilingual natural language processing

## Employment

<b>Google DeepMind</b> <i>Research Scientist</i>	<b>New York, NY, USA</b> 01/2024-present
<b>Google DeepMind</b> <i>Research Scientist Intern</i> Supervisors: <a href="#">Sebastian Ruder</a> , <a href="#">Priyanka Agrawal</a>	<b>Berlin, Germany</b> 04/2023-07/2023
<b>Amazon AWS</b> <i>Applied Scientist Intern</i> Supervisors: <a href="#">Prashant Mathur</a> , <a href="#">Brian Thompson</a> , <a href="#">Marcello Federico</a>	<b>Santa Clara, CA, USA</b> 08/2022-12/2022
<b>Allen Institute for Artificial Intelligence (AI2)</b> <i>Research Scientist Intern</i> Supervisors: <a href="#">Jesse Dodge</a> , <a href="#">Matthew E. Peters</a>	<b>Seattle, WA, USA (remote)</b> 05/2022-08/2022
<b>Allen Institute for Artificial Intelligence (AI2)</b> <i>Research Scientist Intern</i> Supervisors: <a href="#">Jesse Dodge</a> , <a href="#">Matthew E. Peters</a>	<b>Seattle, WA, USA (remote)</b> 07/2021-01/2022
<b>Behavioral Signal Technologies Inc.</b> <i>Machine Learning Engineer</i>	<b>Los Angeles, CA, USA (remote)</b> 11/2018-07/2019
<b>NOKIA</b> <i>Software Engineer Intern</i>	<b>Athens, Greece</b> 07/2017-01/2018

## Education

<b>Ludwig Maximilian University of Munich</b> <i>PhD in Computer Science</i> ○ Supervisor: <a href="#">Alexander Fraser</a> ○ Thesis: "Efficient Multilingual and Domain Adaptation of Language Models under Resource Constraints"	<b>Munich, Germany</b> 09/2019-10/2024
<b>National Technical University of Athens</b> <i>Diploma (BEng &amp; MEng) in Electrical and Computer Engineering</i> ○ GPA : 8.0/10 (top 15%) ○ Thesis: "Transfer Learning with Deep Neural Networks for Sentiment Analysis and Semantic Modeling" ○ Thesis Supervisor: <a href="#">Alexandros Potamianos</a>	<b>Athens, Greece</b> 09/2012-02/2019

## Publications

1. [What Matters for Model Merging at Scale?](#)  
Yadav, P., Vu, T., Lai, J., **Chronopoulou, A.**, Faruqui, M., Bansal, M., Munkhdalai, T.  
arXiv 2024
2. [Gemini 1.5: Unlocking multimodal understanding across millions of tokens of context](#)  
Reid, M., ..., **Chronopoulou, A.**, et al. (Gemini Team Google)  
arXiv 2024

3. [Language and Task Arithmetic with Parameter-Efficient Layers for Zero-Shot Summarization](#)  
**Chronopoulou, A.**, Pfeiffer, J., Maynez, J., Wang, X., Ruder, S., Agrawal, P.  
Workshop on Multilingual Representation Learning@EMNLP 2024 **Best Paper Award**
4. [Findings of the IWSLT 2023 Evaluation Campaign](#)  
Agarwal, M., ..., **Chronopoulou, A.**, et al. (50+ authors)  
IWSLT 2023
5. [On the Copying Problem of Unsupervised NMT: A Training Schedule with a Language Discriminator Loss](#)  
Liu, Y., **Chronopoulou, A.**, Schütze, H., Fraser, A.  
IWSLT 2023
6. [Mitigating Data Imbalance and Representation Degeneration in Multilingual Machine Translation](#)  
Lai, W., **Chronopoulou, A.**, Fraser, A.  
EMNLP 2023 Findings
7. [Improving Isochronous Machine Translation with Target Factors and Auxiliary Counters](#)  
Pal, P., Thompson, B., Virkar, Y., Mathur, P., **Chronopoulou, A.**, Federico, M.  
INTERSPEECH 2023
8. [Jointly Optimizing Translations and Speech Timing to Improve Isochrony in Automatic Dubbing](#)  
**Chronopoulou, A.**, Thompson, B., Mathur, P., Virkar, Y., Lakew, S. M., Federico, M.  
arXiv 2023
9. [AdapterSoup: Weight Averaging to Improve Generalization of Pretrained Language Models](#)  
**Chronopoulou, A.**, Peters, M., Fraser, A., Dodge, J.  
EACL 2023 Findings
10. [Language-Family Adapters for Low-Resource Multilingual Neural Machine Translation](#)  
**Chronopoulou, A.**, Stojanovski, D., Fraser, A.  
Workshop on Technologies for Machine Translation of Low-Resource Languages@EACL 2023
11. [m<sup>4</sup> Adapter: Multilingual Multi-Domain Adaptation for Machine Translation with a Meta-Adapter](#)  
Lai, W., **Chronopoulou, A.**, Fraser, A.  
EMNLP 2022 Findings
12. [Efficient Hierarchical Domain Adaptation for Pretrained Language Models](#)  
**Chronopoulou, A.**, Peters, M., Dodge, J.  
NAACL 2022
13. [Improving the Lexical Ability of Pretrained Language Models for Unsupervised Neural Machine Translation](#)  
**Chronopoulou, A.**, Stojanovski, D., Fraser, A.  
NAACL 2021
14. [Reusing a Pretrained Language Model on Languages with Limited Corpora for Unsupervised Neural Machine Translation](#)  
**Chronopoulou, A.**, Stojanovski, D., Fraser, A.  
EMNLP 2020
15. [Domain Adversarial Fine-Tuning as an Effective Regularizer](#)  
Vernikos, G., Margatina, K., **Chronopoulou, A.**, Androutsopoulos, I.  
EMNLP 2020 Findings
16. [The LMU Munich System for the WMT 2020 Unsupervised Machine Translation Shared Task](#)  
**Chronopoulou, A.**, Stojanovski, D., Hangya, V., Fraser, A.  
WMT 2020
17. [An Embarrassingly Simple Approach for Transfer Learning from Pretrained Language Models.](#)

**Chronopoulou, A.**, Baziotis, C., Potamianos, A.  
NAACL 2019

18. [NTUA-SLP at IEST 2018: Ensemble of Neural Transfer Methods for Implicit Emotion Classification](#)  
**Chronopoulou, A.\***, Margatina, K.\*, Baziotis, C., Potamianos, A.  
Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis@EMNLP 2018.
19. [NTUA-SLP at SemEval-2018 Task 1: Predicting Affective Content in Tweets with Deep Attentive RNNs and Transfer Learning](#)  
Baziotis, C., Athanasiou, N., **Chronopoulou, A.**, Kolovou, A., Paraskevopoulos, G., Ellinas, N., Narayanan, S., Potamianos, A.  
International Workshop on Semantic Evaluation@NAACL 2018

## Teaching

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Supervision of BA/MA theses at LMU Munich (2019-2023)

Tutor on courses: Information Extraction, Machine Translation at LMU Munich (2019-2023)

## Academic Service

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- **Area Chair**  
ACL Rolling Review (2024-)
- **Program Committee / Reviewer**  
ACL, EMNLP, NAACL, EACL, WMT, IWSLT, Repl4NLP (2018-present)

## 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

## 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

## Languages

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