

# 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

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| <b>PhD in Computer Science</b><br><i>Ludwig Maximilian University of Munich</i> <ul style="list-style-type: none"><li>○ Natural Language Processing Group (<a href="#">CIS</a>)</li><li>○ Focus: Data and Parameter Efficient Fine-tuning of Language Models</li><li>○ Supervisor: <a href="#">Alexander Fraser</a></li><li>○ Expected Graduation: October 2023</li></ul>                | <b>Munich, Germany</b><br><i>09/2019-present</i>  |
| <b>Visiting Student, MEng</b><br><i>Polytechnic University of Catalonia (UPC)</i>  | <b>Barcelona, Spain</b><br><i>01/2016-06/2016</i> |
| <b>Diploma (BEng &amp; MEng) in Electrical and Computer Engineering</b><br><i>National Technical University of Athens</i> <ul style="list-style-type: none"><li>○ GPA : 8.0/10 (top 15%)</li><li>○ Thesis title: "Transfer Learning with Deep Neural Networks for Sentiment Analysis and Semantic Modeling"</li><li>○ Thesis Supervisor: <a href="#">Alexandros Potamianos</a></li></ul> | <b>Athens, Greece</b><br><i>09/2012-02/2019</i>   |

## Professional Experience

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| <b>Google DeepMind</b><br><i>Research Scientist Intern</i><br>Research on multilingual NLP using large language models  | <b>Berlin, Germany</b><br><i>04/2023-07/2023</i>               |
| <b>Amazon AI</b><br><i>Applied Scientist Intern</i><br>Research on isochronous speech translation (Amazon Translate team)   | <b>Santa Clara, CA, USA</b><br><i>08/2022-12/2022</i>          |
| <b>Allen Institute for Artificial Intelligence</b><br><i>Research Scientist Intern</i><br>Research on arithmetic (weight-space) composition of adapters (AllenNLP team) | <b>Seattle, WA, USA (remote)</b><br><i>05/2022-08/2022</i>     |
| <b>Allen Institute for Artificial Intelligence</b><br><i>Research Scientist Intern</i><br>Research on hierarchical adapters for domain adaptation (AllenNLP team)       | <b>Seattle, WA, USA (remote)</b><br><i>07/2021-01/2022</i>     |
| <b>Behavioral Signal Technologies Inc.</b><br><i>Machine Learning Engineer</i><br>Basic emotion recognition from conversational data                                    | <b>Los Angeles, CA, USA (remote)</b><br><i>11/2018-07/2019</i> |
| <b>NOKIA R&amp;D</b><br><i>Software Engineer Intern</i><br>Prediction of code fault-proneness based on data from internal team projects                                 | <b>Athens, Greece</b><br><i>07/2017-01/2018</i>                |

## Publications

- [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. arXiv pre-print. [\[paper\]](#)
- [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).  $m^4$ 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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**IWSLT 2023 Dubbing Shared Task** Toronto, Canada  
Workshop Co-Organizer ([website](#)) 07/2023

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

**Reviewer**  
ACL, EMNLP, NAACL, EACL, WMT, IWSLT 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](#).  
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

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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*)

## References

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**Alexander Fraser**  
**Jesse Dodge**

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**Matt Peters**  
**Sebastian Ruder**

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ruder@google.com