

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

University of Munich (Ludwig-Maximilians-Universität München)

Munich, Germany

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

Polytechnic University of Catalonia (UPC)

Barcelona, Spain

01/2016-06/2016

- Relevant Coursework: Pattern Recognition, Mobile Robots and Navigation

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](#)
- Supervisor: [Alexandros Potamianos](#)

Professional Experience

Applied Science Intern

Amazon Web Services

Santa Clara, CA, USA

08/2022-12/2022

I worked on speech translation with [Prashant Mathur](#), [Brian Thompson](#) and [Marcello Federico](#) (Amazon AI language technology group).

Research Intern

Allen Institute for Artificial Intelligence

Seattle, WA, USA (remote)

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

Allen Institute for Artificial Intelligence

Seattle, WA, USA (remote)

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

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 and Preprints

- [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] Lai, W., **Chronopoulou, A.**, Fraser, A. (2022). *m⁴Adapter*: Multilingual Multi-Domain Adaptation for Machine Translation with a Meta-Adapter. EMNLP 2022 Findings. [\[paper\]](#)
- [4] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2022). Language-Family Adapters for Multilingual Neural Machine Translation. arXiv pre-print. [\[paper\]](#)
- [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). 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. [\[paper\]](#) [\[code\]](#)

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*)