Alexandra Chronopoulou

Oettingenstrasse 67, 80538 Munich, Germany

✉ achron@cis.lmu.de • alexandra-chron.github.io • google scholar • in linkedin

Research Interests

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

Education

PhD in Computer Science   **Munich, Germany**
Ludwig Maximilian University of Munich   *09/2019-present*

- Natural Language Processing Group (CIS)
- Focus: Data and Parameter Efficient Fine-tuning of Language Models
- Supervisor: Alexander Fraser
- Expected Graduation: October 2023

Visiting Student, MEng   **Barcelona, Spain**
Polytechnic University of Catalonia (UPC)   *01/2016-06/2016*

Diploma (BEng & MEng) in Electrical and Computer Engineering   **Athens, Greece**
National Technical University of Athens   *09/2012-02/2019*

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

Professional Experience

Google DeepMind   **Berlin, Germany**
Research Scientist Intern   *04/2023-07/2023*

Research on multilingual NLP using large language models

Amazon AI   **Santa Clara, CA, USA**
Applied Scientist Intern   *08/2022-12/2022*

Research on isochronous speech translation (Amazon Translate team)

Allen Institute for Artificial Intelligence   **Seattle, WA, USA (remote)**
Research Scientist Intern   *05/2022-08/2022*

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

Allen Institute for Artificial Intelligence   **Seattle, WA, USA (remote)**
Research Scientist Intern   *07/2021-01/2022*

Research on hierarchical adapters for domain adaptation (AllenNLP team)

Behavioral Signal Technologies Inc.   **Los Angeles, CA, USA (remote)**
Machine Learning Engineer   *11/2018-07/2019*

Basic emotion recognition from conversational data

NOKIA R&D   **Athens, Greece**
Software Engineer Intern   *07/2017-01/2018*

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

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] 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]

[4] **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]

[5] **Chronopoulou, A.**, Peters, M., Fraser, A., Dodge, J. (2023). AdapterSoup: Weight Averaging to Improve Generalization of Pretrained Language Models. EACL 2023 Findings. [paper]

[6] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2023). Language-Family Adapters for Low-Resource Multilingual Neural Machine Translation. LoResMT 2023. [paper]

[7] Lai, W., **Chronopoulou, A.**, Fraser, A. (2022). $m^4Adapter$: Multilingual Multi-Domain Adaptation for Machine Translation with a Meta-Adapter. EMNLP 2022 Findings. [paper] [code]

[8] **Chronopoulou, A.**, Peters, M., Dodge, J. (2022). Efficient Hierarchical Domain Adaptation for Pretrained Language Models. NAACL 2022. [paper] [code]

[9] **Chronopoulou, A.**, Stojanovski, D., Fraser, A. (2021). Improving the Lexical Ability of Pretrained Language Models for Unsupervised Neural Machine Translation. NAACL 2021. [paper] [code]

[10] **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]

[11] Vernikos, G., Margatina, K., **Chronopoulou, A.**, Androutsopoulos, I. (2020). Domain Adversarial Fine-Tuning as an Effective Regularizer. EMNLP 2020 Findings. [paper] [code]

[12] **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]

[13] **Chronopoulou, A.**, Baziotis, C., Potamianos, A. (2019). An Embarrassingly Simple Approach for Transfer Learning from Pretrained Language Models. NAACL 2019. [paper] [code]

[14] **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]

[15] 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 & Other Academic Experience

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

o **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.

o **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, Jax, Fairseq, HuggingFace, Tensorflow, Keras, AllenNLP

Languages

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