Alexandra Chronopoulou

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Research Interests

Efficient Transfer Learning, Machine Translation & Multilingual Natural Language Processing, Language Modeling, Domain Adaptation, Unsupervised & Low-Resource Learning

Education

PhD in Computer Science — **Munich, Germany**
University of Munich (Ludwig-Maximilians-Universität München) — *09/2019-present*

- Focus: Low-Resource Machine Translation and Efficient Transfer Learning
- Supervisor: Alexander Fraser

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 Topic: *Transfer Learning with Deep Neural Networks for Sentiment Analysis and Semantic Modeling*
- Supervisor: Alexandros Potamianos

Erasmus Exchange Student Program — **Barcelona, Spain**
Polytechnic University of Catalonia (UPC) — *01/2016-06/2016*

- Relevant Coursework: Pattern Recognition, Mobile Robots and Navigation

High School Diploma — **Athens, Greece**
Lycée Léonin Nea Smirni — *09/2009-06/2012*

- Highest Honors, top 1% in national qualification exams, GPA: $19.4/20$

Professional Experience

Applied Science Intern — **Santa Clara, USA**
Amazon Web Services — *08/2022-present*

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

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

I worked on parameter-efficient transfer learning for large language models with Jesse Dodge and Matt Peters (AllenNLP team).

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

I worked on efficient domain adaptation for large language models, supervised by Jesse Dodge and Matt Peters.

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

Basic emotion recognition from conversational data.

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

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

Publications

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

[2] **Chronopoulou, A.**, Stojanovski, D., and Fraser, A. (2022). Language-Family Adapters for Multilingual Neural Machine Translation. arXiv pre-print. **[paper]**

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

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

[5] **Chronopoulou, A.**, Stojanovski, D., and Fraser, A. (2020). Reusing a Pretrained Language Model on Languages with Limited Corpora for Unsupervised Neural Machine Translation. EMNLP 2020. **[paper] [code]**

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

[7] **Chronopoulou, A.**, Stojanovski, D., Hangya, V., and Fraser, A. (2020). The LMU Munich System for the WMT 2020 Unsupervised Machine Translation Shared Task. WMT 2020. **[paper] [code]**

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

[9] **Chronopoulou, A.***, Margatina ,K.*, Baziotis, C., and Potamianos, A. (2018). Ensemble of Neural Transfer Methods for Implicit Emotion Classification. WASSA (EMNLP) 2018. **[paper] [code]**

[10] Baziotis, C., Athanasiou, N. , **Chronopoulou, A.**, Kolovou, A., Paraskevopoulos, G., Ellinas, N., Narayanan, S., and Potamianos, A. (2018). NTUA-SLP at SemEval-2018 Task 1: Predicting Affective Content in Tweets with Deep Attentive RNNs and Transfer Learning. SemEval (NAACL) 2018. **[paper] [code]**

Honors and Awards

- **WMT 2020 Unsupervised Task**
  Ranked 1st in the competition. The task was translation for German-Sorbian in both directions.
- **EurNLP 2019**
  Recipient of travel grant from Facebook in order to attend the inaugural EurNLP summit in London, UK.
- **AthNLP Summer School 2019**
  Recipient of scholarship from the Hellenic Artificial Intelligence Society (EETN) to attend the 1st AthNLP Summer School in Athens, Greece.
- **NAACL 2019**
  Recipient of award from ACM-Women to attend NAACL 2019 conference in Minneapolis, USA.
- **WASSA IEST 2018**
  Ranked 3rd at the WASSA 2018 Implicit Emotion Shared Task (IEST).
- **SemEval 2018**
  Ranked 1st at the SemEval 2018 Task1E: Affect in Tweets.

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*)