

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

University of Munich (Ludwig-Maximilians-Universität München)

Munich, Germany

09/2019-Today

- Focus: Low-Resource/Unsupervised Machine Translation
- Supervisor: [Alexander Fraser](#)

BSc & MSc Diploma in Electrical and Computer Engineering

National Technical University of Athens

Athens, Greece

09/2012-02/2019

- GPA : 8.0/10 (top 15% of class)
- Specialization: Systems, Control & Robotics
- Thesis Topic: Transfer Learning with Deep Neural Networks for Sentiment Analysis and Semantic Modeling
- Supervisor: [Alexandros Potamianos](#)

Erasmus Exchange Student Program

Polytechnic University of Catalonia (UPC)

Barcelona, Spain

01/2016-06/2016

- Relevant Coursework: Pattern Recognition, Mobile Robots and Navigation

High School Diploma

Lycée Léonin Nea Smirni

Athens, Greece

09/2009-06/2012

- GPA: 19.4/20 (Highest Honors)
- Nationwide University Entrance Examination. GPA: 19.38/20 (top 1% nationwide)

Professional Experience

Research Science Intern

Allen Institute for Artificial Intelligence

Seattle, USA

07/2021-01/2022

I worked on efficient domain adaptation for large language models in the AllenNLP team. I was supervised by [Jesse Dodge](#) and [Matt Peters](#).

Machine Learning Engineer

Behavioral Signal Technologies Inc.

Los Angeles, USA

11/2018-07/2019

- Built text classification models for emotion recognition from conversational data.
- Built neural models using PyTorch for basic emotion recognition.
- Developed machine learning infrastructure framework.

Software Engineer Intern

NOKIA R&D

Athens, Greece

07/2017-01/2018

- Assisted in coding a supervised machine learning algorithm based on Random Forest to predict code fault-proneness on internal team projects using a Cassandra NoSQL database.
- Coded in Python, used scikit-learn. Front-end with Flask.

Publications

- [1] **Chronopoulou, A.**, Peters, M., Dodge, J. (2021). Efficient Hierarchical Domain Adaptation for Pretrained Language Models. NAACL 2022. [\[paper\]](#)[\[code\]](#)

- [2] **Chronopoulou, A.**, Stojanovski, D., and Fraser, A. (2021). Improving the Lexical Ability of Pretrained Language Models for Unsupervised Neural Machine Translation. NAACL 2021. [\[paper\]](#) [\[code\]](#)
- [3] **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. [\[paper\]](#) [\[code\]](#)
- [4] Vernikos, G., Margatina, K., **Chronopoulou, A.**, and Androutsopoulos, I. (2020). Domain Adversarial Fine-Tuning as an Effective Regularizer. Findings of ACL: EMNLP 2020. [\[paper\]](#) [\[code\]](#)
- [5] **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. [\[paper\]](#) [\[code\]](#)
- [6] **Chronopoulou, A.**, Baziotis, C., and Potamianos, A. (2019). An Embarrassingly Simple Approach for Transfer Learning from Pretrained Language Models. NAACL 2019. [\[paper\]](#) [\[code\]](#)
- [7] **Chronopoulou, A.***, Margatina, K.*, Baziotis, C., and Potamianos, A. (2018). Ensemble of Neural Transfer Methods for Implicit Emotion Classification. WASSA (EMNLP) 2018. [\[paper\]](#) [\[code\]](#)
- [8] 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, UNIX Bash |
| ○ Languages (familiar with): | C, C++, Matlab, SQL |
| ○ Machine learning frameworks: | PyTorch, Tensorflow, keras |
| ○ Natural language processing frameworks: | fairseq, HuggingFace transformers |
| ○ Project Management/Development: | Git, JIRA, Scrum, Jenkins, Docker |

Languages

Greek	●●●●●
English	●●●●●
French	●●●●●
Spanish	●●●●●
German	●●●●●