Alexandra Chronopoulou

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Research Interests

Machine Translation & Multilingual Natural Language Processing, Unsupervised & Low-Resource Learning, Transfer Learning, Representation Learning

Education

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

- Focus: Low-Resource/Unsupervised Machine Translation
- Supervisor: Alexander Fraser

BEng & MEng Diploma in Electrical and Computer Engineering — **Athens, Greece**
National Technical University of Athens — *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 — **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*

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

Publications

[1] **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]**

[2] **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]**

[3] 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]**

[4] **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]**

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

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

[7] 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

- **Facebook Scholarship for Attendance at EurNLP 2019**
  Recipient of travel grant in order to attend the inaugural EurNLP summit in London, UK.
- **EETN Scholarship for Attendance at AthNLP Summer School 2019**
  Recipient of scholarship from the Hellenic Artificial Intelligence Society (EETN) to attend the 1st AthNLP Summer School in Athens, Greece.
- **ACM-W Scholarship for Attendance at NAACL 2019**
  Recipient of award from ACM-Women to attend NAACL 2019 conference in Minneapolis, USA.

Competitions

- 1st place in WMT 2020 Unsupervised Task, Translation in German-Sorbian in both translation directions.
- 3rd place in WASSA 2018, Implicit Emotion Classification Shared Task.
- 1st place in SemEval 2018, Task1E: Affect in Tweets.

Professional Experience

Machine Learning Engineer — **Los Angeles, USA (remote)**
Behavioral Signal Technologies Inc. — *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) — **Athens, Greece**
NOKIA R&D — *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.

Programming skills

- **Languages:** Python, Matlab, C, UNIX Bash, Assembly
- **Frameworks/Libraries:** PyTorch, Tensorflow, scikit-learn
- **Project Management:** Git, JIRA, Scrum, Jenkins

Languages

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

References

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