

Christos Baziotis

CONTACT INFORMATION

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Publications: [Google Scholar](#)

RESEARCH INTERESTS

Natural Language Generation, Machine Translation & Multilingual NLP, Representation Learning, Latent Structure, Unsupervised & Low-Resource Learning

EDUCATION

Ph.D. Candidate 2019 - Present

University of Edinburgh (ILCC), UK
Topic: Low-Resource/Unsupervised Machine Translation
Supervisors: Dr. [Barry Haddow](#), Dr. [Alexandra Birch](#)

M.Sc. in Advanced Computing and Informatics Systems 2017

University of Piraeus, Greece, Department of Informatics (GPA 9.46/10)
Thesis: “*Sentiment Analysis in Twitter with Deep Neural Networks*”
Supervisors: Prof. [Nikos Pelekis](#), Prof. [Christos Doulkeridis](#)
- Top scoring system in Semeval 2017, Task4A “Sentiment Analysis in Twitter”

B.Sc. in Computer Science 2014

University of Piraeus, Greece, Department of Informatics

WORK EXPERIENCE

External Research Collaborator Jan 2022 - Apr 2022

[Facebook AI Research](#) (FAIR) at Menlo Park, CA, USA (remote)
I resumed and concluded my internship research project (accepted to EMNLP2022).

Research Scientist Intern Sep 2021 - Dec 2021

[Facebook AI Research](#) (FAIR) at Menlo Park, CA, USA (remote)
I worked on parameter-efficient multilingual machine translation, with [Shruti Bhosale](#), [Mikel Artetxe](#), and [James Cross](#).

Applied Scientist Intern May 2021 - Aug 2021

[Amazon Research](#) at Palo Alto, CA, USA (remote)
I worked on idiom translation with [Prashant Mathur](#) and [Eva Hasler](#).

Software Engineer 2014 - 2016

[Profile Systems and Software S.A.](#) - Banking & Investment Management
- Web software engineer (lead front-end), at Profile’s R&D department.
- Developed [Axia](#), Profile’s cloud-based solution for wealth management.

SELECTED PUBLICATIONS

[Baziotis, C.](#), Mathur, P., Hasler, E. “Automatic Evaluation and Analysis of Idioms in Neural Machine Translation”. Preprint. [\[paper\]](#)

[Baziotis, C.](#), Artetxe, M., Cross, J. and Bhosale, S. “Multilingual Machine Translation with Hyper-Adapters”. EMNLP 2022. [\[paper\]](#)

[Baziotis, C.](#), Titov, I., Birch, A. and Haddow, B. “Exploring Unsupervised Pretraining Objectives for Machine Translation”. ACL 2021 (Findings). [\[paper\]](#) [\[code\]](#)

[Baziotis, C.](#), Haddow, B. and Birch, A. “Language Model Prior for Low-Resource Neural Machine Translation”. EMNLP 2020. [\[paper\]](#) [\[code\]](#)

[Baziotis, C.](#), Androutsopoulos, I., Konstas, I., and Potamianos, A. “SEQ³: Differentiable Sequence-to-Sequence-to-Sequence Autoencoder for Unsupervised Abstractive Sentence Compression”. NAACL 2019. [\[paper\]](#) [\[code\]](#)

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

Margatina, A., **Baziotis, C.**, and Potamianos, A. (2019). “Attention-based Conditioning Methods for External Knowledge Integration”. ACL 2019. [\[paper\]](#) [\[code\]](#)

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

Baziotis, C., Pelekis, N., and Doukeridis, C. “DataStories at SemEval-2017 Task 4: Deep LSTM with Attention for Message-level and Topic-based Sentiment Analysis”. SemEval (ACL) 2017. [\[paper\]](#) [\[code\]](#)

RESEARCH EXPERIENCE

Teacher Assistant Jan 2022 - May 2022
University of Edinburgh (ILCC), UK

Course (M.Sc.): “Natural Language Understanding, Generation, and Machine Translation”
- Designed and organized the labs, tutorials, and assignments

Research Assistant 2017 - 2019
National Technical University of Athens (NTUA), Greece

Research Topic: Low-Resource Neural Text Generation, Transfer Learning
Supervisors: Prof. [Alexandros Potamianos](#), Prof. [Ion Androutsopoulos](#)
- Teacher Assistant in Speech and Language Processing
- Leader of NTUA-SLP Team for SemEval 2018 in Tasks 1, 2, 3 (*1st in Task1E*)

Research Assistant 2017 - 2019
Institute of Communication and Computer Systems (ICCS), Athens, Greece
Project: “[BabyRobot](#): Child-Robot Communication and Collaboration” (EU Horizon 2020)
- Object Recognition, for enabling the robots to identify children’s workspace.
- Speech Emotion Recognition, for tracking children’s emotions.
- Text Affect Recognition, for monitoring children’s affective state (ASR transcripts).

COMPETITIONS

- 1st place in Semeval 2017, Task4A “Sentiment Analysis in Twitter”
- 1st place in Semeval 2018, Task1E “Affect in Tweets”
- 2nd place in Semeval 2017 Task4 [B, C, D] (*Sentiment Analysis*), Semeval 2017 Task6A (*Humor*), Semeval 2018 Task2 (*Emoji Prediction*), Semeval 2018 Task3 (*Irony Detection*)

OPEN-SOURCE PROJECTS

[ekphrasis](#) (Text Preprocessing)
Text processing tool, targeted at messages from social networks (e.g. Twitter)
[NeAt-Vision](#) (Visualization / Model Analysis)
Visualization of the behaviour of deep-learning models for NLP (attention, predictions)

PROGRAMMING SKILLS

Proficient: Python (machine learning stack; PyTorch, NumPy/SciPy, scikit-learn, Keras), JavaScript (front-end stack; AngularJS, VueJS)
Familiar: Java, C/C++, SQL, RegEx, Linux Shell

LANGUAGES

Greek (native), **English** (fluent)