

Christos Baziotis

CONTACT INFORMATION

Location: Edinburgh, UK
Email: christos.baziotis@gmail.com

Publications: [Google Scholar](#)
Website: cbaziotis.github.io

RESEARCH INTERESTS

Natural Language Generation, Machine Translation & Multilingual NLP, Unsupervised & Low-Resource Learning, Transfer Learning, Exploiting Prior Knowledge

EDUCATION

Ph.D. Candidate 2019 - Present
University of Edinburgh (ILCC), UK
Topic: Low-Resource 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
[Meta AI](#) (FAIR) at Menlo Park, CA, USA (remote)
I resumed and concluded my internship research project (accepted to EMNLP 2022).

Research Scientist Intern Sep 2021 - Dec 2021
[Meta AI](#) (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 the translation of figurative language 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.
- I developed [Axia](#), Profile’s cloud-based solution for wealth management.

SELECTED PUBLICATIONS

Christos Baziotis, Prashant Mathur, and Eva Hasler. “Automatic Evaluation and Analysis of Idioms in Neural Machine Translation”. Under Review. [\[paper\]](#) [\[code\]](#)

Christos Baziotis, Mikel Artetxe, James Cross, and Shruti Bhosale. “Multilingual Machine Translation with Hyper-Adapters”. EMNLP 2022 (oral). [\[paper\]](#) [\[code\]](#)

Christos Baziotis, Ivan Titov, Alexandra Birch, and Barry Haddow. “Exploring Unsupervised Pretraining Objectives for Machine Translation”. ACL 2021 (Findings). [\[paper\]](#) [\[code\]](#)

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

Christos Baziotis, Ion Androutsopoulos, Ioannis Konstas, and Alexandros Potamianos. “SEQ³: Differentiable Sequence-to-Sequence-to-Sequence Autoencoder for Unsupervised Abstractive Sentence Compression”. NAACL 2019 (oral). [\[paper\]](#) [\[code\]](#)

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

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

Christos Baziotis, Nikos Athanasiou, Alexandra Chronopoulou, Athanasia Kolovou, Georgios Paraskevopoulos, Nikolaos Ellinas, Shrikanth Narayanan, and Alexandros Potamianos. “NTUA-SLP at SemEval-2018 Task 1: Predicting Affective Content in Tweets with Deep Attentive RNNs and Transfer Learning”. SemEval (NAACL) 2018 — **1st place at Task1E**. [\[paper\]](#) [\[code\]](#)

Christos Baziotis, Nikos Pelekis, and Christos Doukeridis. “DataStories at SemEval-2017 Task 4: Deep LSTM with Attention for Message-level and Topic-based Sentiment Analysis”. SemEval (ACL) 2017 — **1st place at Task4A**. [\[paper\]](#) [\[code\]](#)

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)