

# Christos Baziotis

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## CONTACT INFORMATION

 [cbaziotis.github.io](https://github.com/cbaziotis)  [github.com/cbaziotis](https://github.com/cbaziotis)  [christos.baziotis@gmail.com](mailto:christos.baziotis@gmail.com)  
 Edinburgh, UK  [papers on GScholar](#)  [linkedin.com/christosbaziotis](https://linkedin.com/christosbaziotis)

## RESEARCH INTERESTS

I am interested in text generation and multilingual NLP and in enabling models to learn with limited supervision by exploiting prior knowledge from unlabeled data.

## 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. "SEQ<sup>3</sup>: 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)