

# MERVE ÜNLÜ MENEVŞE (SHE/HER)

Ph.D. Student | Computer Engineer

[in linkedin.com/in/merve-unlu-menevse](https://www.linkedin.com/in/merve-unlu-menevse)

[github.com/mmerveunlu](https://github.com/mmerveunlu)

<https://mmerveunlu.github.io>

[m.merve.unlu@gmail.com](mailto:m.merve.unlu@gmail.com)

Santa Clara, CA, USA

## EDUCATION

Current	Ph.D. Computer Engineering, Boğaziçi University
2019	MSc Computer Engineering, Boğaziçi University
2014	Master 2 Fundamental Computer Science, ENS-Lyon
2012	BS Computer Engineering, Galatasaray University

## EXPERIENCE

2022 2014	<b>Research/ Teaching Assistant, GALATASARAY UNIVERSITY, Turkey</b> <ul style="list-style-type: none"><li>Assisted around 40 students each semester with various needs from putting on coats to go outside to reviewing homework assignments</li><li>Supported classroom activities, tutoring, and reviewing work</li></ul> <p>C C++ MPI Algorithms Python</p>
Jan 2022 Jul 2021	<b>Applied Scientist Intern, AMAZON, ALEXA, Aachen, Germany</b> <ul style="list-style-type: none"><li>Researched, designed and implemented non-autoregressive error correction model and obtained 3% improvement in terms of inference time</li><li>Quickly learned new skills and applied them to daily tasks, improving efficiency and productivity.</li></ul> <p>Python Tensorflow Amazon AWS ASR Language Modelling</p>
Jun 2014 Jan 2014	<b>Research Intern, INRIA, Lyon, France</b> <ul style="list-style-type: none"><li>Gathered, arranged and corrected research data to develop parallel version of Aevol, in-silico experimental environment for bacteria evolution</li><li>Proposed scheduler strategy to handle messaging between nodes in parallel version and obtained 10% improvement in terms of temporal complexity</li></ul> <p>C C++ MPI Bioinformatics Parallel Systems</p>
2013 2012	<b>Developer, ARSKOM, Turkey</b> <ul style="list-style-type: none"><li>Revised, modularized and updated old code bases to modern development standards, reducing operating costs and improving functionality</li><li>Contributed to open source project in Python</li></ul> <p>Python Open Source RestApl</p>
Sep 2011 Apr 2011	<b>Developer Intern, SIEMENS, Turkey</b> <ul style="list-style-type: none"><li>Worked on communication systems on mobile devices, developed source management system</li><li>Maintained positive work atmosphere by building relationships with co-workers, customers, clients and management</li></ul> <p>C C++ MPI Bioinformatics Parallel Systems</p>

## SKILLS

Programming	Python, C, C++, Matlab
Library	Tensorflow, Pytorch, Keras, Numpy, Pandas, Seaborn, Scikit-Learn
Operating Systems	Linux, Mac OS
Others	Git, HTML, CSS, Javascript

French ●●●○○  
 English ●●●●○  
 Turkish ●●●●●

- > Machine Translation (CmpE 510), Natural Language Processing (CmpE 561 ), Advanced topics in Speech Processing (EE 683)
- > Bayesian Statistics and Machine Learning (CmpE 547), Pattern Recognition (CmpE 544), Deep Learning (CmpE 597)
- > Introduction to Language and Linguistics(Ling101)

 PUBLICATIONS

<b>A FRAMEWORK FOR AUTOMATIC GENERATION OF SPOKEN QUESTION-ANSWERING DATA</b>	2022
Ünlü Merve, Manav Yusufcan, Arisoy Ebru, Ozgur Arzucan EMNLP Findings 2022	
<div style="display: flex; justify-content: space-between; gap: 10px;"> <span>Spoken Question Answering</span> <span>Turkish SQA</span> <span>Transformers</span> <span>Question Generation</span> </div>	
<b>UNCERTAINTY-AWARE REPRESENTATIONS FOR SPOKEN QUESTION ANSWERING</b>	2021
Ünlü Merve, Arisoy Ebru IEEE Workshop on Spoken Language Technology (SLT)	
<div style="display: flex; justify-content: space-between; gap: 10px;"> <span>Spoken Question Answering</span> <span>Turkish SQA</span> <span>English SQA</span> <span>Speech Recognition</span> <span>Transformers</span> </div>	
<b>QUESTION ANSWERING FOR SPOKEN LECTURE PROCESSING.</b>	2019
Ünlü Merve, Arisoy Ebru, Saraçlar Murat IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)	
<div style="display: flex; justify-content: space-between; gap: 10px;"> <span>Spoken Question Answering</span> <span>Turkish SQA</span> <span>Recurrent Neural Networks</span> </div>	
<b>A QUESTION ANSWERING SYSTEM FOR SPOKEN LECTURES IN TURKISH</b>	2019
Ünlü Merve, Arisoy Ebru, Saraçlar Murat IEEE 27th Signal Processing and Communications Applications Conference (SIU)	
<div style="display: flex; justify-content: space-between; gap: 10px;"> <span>Spoken Question Answering</span> <span>Turkish SQA</span> <span>Recurrent Neural Networks</span> </div>	
<b>DEEP LEARNING FOR QUESTION ANSWERING</b>	2019
Ünlü Merve MSc Thesis, Boğaziçi University, Computer Engineering	
<div style="display: flex; justify-content: space-between; gap: 10px;"> <span>Deep Learning</span> <span>Spoken QA</span> <span>Dataset Annotation</span> <span>Machine Comprehension</span> </div>	