




# Furkan Şahinuç

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🎓 <https://scholar.google.com/citations?user=D28sigkAAAAJ&hl=en>

## Education






- 2019 – 2021  **M.S., Bilkent University** Electrical and Electronics Engineering. Ankara/Turkey.  
GPA: 3.68/4.00  
Advisor: Asst. Prof. Aykut Koç, Co-advisor: Prof. Haldun Ozaktas  
Thesis title: *Disclosing Zipfian Regularities in Semantic Breadth of Words via Multimodal Gaussian Embeddings*.
- 2014 – 2019  **B.S., Bilkent University**, Electrical and Electronics Engineering. Ankara/Turkey.  
GPA: 3.71/4.00
- 2010 – 2014  **High School**, Suleyman Demirel Science High School. Afyonkarahisar/Turkey.  
GPA: 96.38/100

## Work Experience

- July 2019 – Present  **Research Engineer**, at ASELSAN Research Center
- Feb. 2019 – June 2019  **Candidate Engineer**, at ASELSAN Research Center
- July 2018 – Aug. 2018  **Summer Internship**, at ASELSAN Research Center
- July 2017 – Aug. 2017  **Summer Internship**, at Hercules Biomedical (Bilkent Cyberpark)
- June 2016 – Aug. 2016  **Volunteer Student**, at National Nanotechnology Research Center (UNAM)

## Research Publications

### Journal Articles

- 1 Şenel, L. K., Şahinuç, F., Yücesoy, V., Schütze, H., Çukur, T., & Koç, A. (2022). Learning interpretable word embeddings via bidirectional alignment of embedding dimensions with semantic concepts. *Information Processing & Management*, 59(3), 102925.  doi:10.1016/j.ipm.2022.102925
- 2 Sevim, N., Şahinuç, F., & Koç, A. (2022). Gender bias in legal corpora and debiasing it. *Natural Language Engineering*, 1–34.  doi:10.1017/S1351324922000122
- 3 Toraman, C., Şahinuç, F., Yilmaz, E. H., & Akkaya, I. B. (2022). Understanding social engagements: A comparative analysis of user and text features in twitter. *Social Network Analysis and Mining*, 12(1).  doi:10.1007/s13278-022-00872-1
- 4 Şahinuç, F., & Koç, A. (2021). Zipfian regularities in non-point word representations. *Information Processing & Management*, 58(3), 102493.  doi:10.1016/j.ipm.2021.102493
- 5 Şenel, L. K., Utlu, İ., Şahinuç, F., Ozaktas, H. M., & Koç, A. (2020). Imparting interpretability to word embeddings while preserving semantic structure. *Natural Language Engineering*, 27(6), 721–746.  doi:10.1017/S1351324920000315



## Conference Proceedings

- 1 Toraman, C., Şahinuç, F., & Yilmaz, E. H. (2022a). BlackLivesMatter2020: An analysis of deleted and suspended users in Twitter. Accepted and to be published in ACM Web Science Conference 2022. Retrieved from <https://arxiv.org/pdf/2110.00070.pdf>
- 2 Toraman, C., Şahinuç, F., & Yilmaz, E. H. (2022b). Large-scale hate speech detection with cross-domain transfer. Accepted and to be published in LREC 2022. Retrieved from <https://arxiv.org/pdf/2203.01111.pdf>
- 3 Şahinuç, F., & Toraman, C. (2021). Tweet length matters: A comparative analysis on topic detection in microblogs. In *Advances in Information Retrieval* (pp. 471–478). [doi:10.1007/978-3-030-72240-1\\_50](https://doi.org/10.1007/978-3-030-72240-1_50)
- 4 Şahinuç, F., Toraman, C., & Koç, A. (2021). Topic detection based on deep learning language model in Turkish microblogs. In *2021 29th Signal Processing and Communications Applications Conference (SIU)* (pp. 1–4). [doi:10.1109/SIU53274.2021.9477781](https://doi.org/10.1109/SIU53274.2021.9477781)
- 5 Şahinuç, F., Yücesoy, V., & Koç, A. (2020). Intent classification and slot filling for Turkish dialogue systems. In *2020 28th Signal Processing and Communications Applications Conference (SIU)* (pp. 1–4). [doi:10.1109/SIU49456.2020.9302308](https://doi.org/10.1109/SIU49456.2020.9302308)






## Manuscripts Under Review

- 1 Toraman, C., Şahinuç, F., Yilmaz, E. H., & Ozcelik, O. (2022). *Impact of tokenization on language models: An analysis for Turkish*. Under Review in The ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP). Retrieved from <https://arxiv.org/pdf/2204.08832.pdf>




## Skills

- Languages      Turkish (Native), English (TOEFL: 96), Basic Spanish.
- Coding         Python (Experience in PyTorch and Huggingface libraries), C, C++, Java, MATLAB,  $\LaTeX$

## Honors

-  **High Honor List** (×6), Semester GPA > 3.5/4.0.
-  **Honor List** (×2), 3.0/4.0 < Semester GPA < 3.5/4.0.
-  **Full Scholarship**, Bilkent University along with B.S, M.S. education
-  **Ranked 59th** among 2 million examinees in the nationwide university entrance examinations, Turkey, 2014.
-  **Top Scoring Student**, Suleyman Demirel Science High School, Afyonkarahisar, Turkey, 2014

## References

-  **Asst. Prof. Aykut Koç** (Advisor), Bilkent University, Ankara, Turkey.  
email: [aykut.koc@bilkent.edu.tr](mailto:aykut.koc@bilkent.edu.tr)
-  **Prof. Haldun Ozaktas** (Co-Advisor), Bilkent University, Ankara, Turkey.  
email: [haldun@ee.bilkent.edu.tr](mailto:haldun@ee.bilkent.edu.tr)
-  **Assoc. Prof. Tolga Çukur** (Instructor), Bilkent University, Ankara, Turkey.  
email: [cukur@ee.bilkent.edu.tr](mailto:cukur@ee.bilkent.edu.tr)