













Furkan Şahinuç

 <https://furkansahinuc.github.io/>
 furkansahinuc19@gmail.com
 <https://www.linkedin.com/in/furkan-sahinuc/>
 <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 Şahinuç, F., Yilmaz, E. H., Toraman, C., & Koç, A. (2022). The effect of gender bias on hate speech detection. *Signal, Image and Video Processing*.  doi:10.1007/s11760-022-02368-z
- 2 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
- 3 Sevim, N., Şahinuç, F., & Koç, A. (2022). Gender bias in legal corpora and debiasing it. *Natural Language Engineering*, 1–34.  doi:10.1017/S1351324922000122
- 4 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(47).  doi:10.1007/s13278-022-00872-1
- 5 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

- 6 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 Ozcelik, O., Yilmaz, E. H., Şahinuç, F., & Toraman, C. (2022). Slot filling for voice assistants. In *2022 30th signal processing and communications applications conference (siu)* (pp. 1–4).
doi:10.1109/SIU55565.2022.9864737
- 2 Toraman, C., Ozcelik, O., Şahinuç, F., & Sahin, U. (2022b). ARC-NLP at CheckThat! 2022: Contradiction for harmful tweet detection. In *Working notes of CLEF 2022 - conference and labs of the evaluation forum*, Bologna, Italy. Retrieved from <http://ceur-ws.org/Vol-3180/paper-59.pdf>
- 3 Toraman, C., Şahinuç, F., & Yilmaz, E. H. (2022a). BlackLivesMatter2020: An analysis of deleted and suspended users in Twitter. In *14th ACM Web Science Conference 2022* (pp. 290–295).
doi:10.1145/3501247.3531539
- 4 Toraman, C., Şahinuç, F., & Yilmaz, E. H. (2022b). Large-scale hate speech detection with cross-domain transfer. In *Proceedings of the language resources and evaluation conference* (pp. 2215–2225). European Language Resources Association. Retrieved from <http://www.lrec-conf.org/proceedings/lrec2022/pdf/2022.lrec-1.238.pdf>
- 5 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
- 6 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
- 7 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

Arxiv Preprints



- 1 Sevim, N., Özyedek, E. O., Şahinuç, F., & Koç, A. (2022). Fast-FNet: Accelerating transformer encoder models via efficient Fourier layers. Retrieved from <https://arxiv.org/abs/2209.12816>
- 2 Toraman, C., Ozcelik, O., Şahinuç, F., & Can, F. (2022a). Not good times for lies: Misinformation detection on the Russia-Ukraine war, COVID-19, and refugees. Retrieved from <https://arxiv.org/abs/2210.05401>
- 3 Toraman, C., Yilmaz, E. H., Şahinuç, F., & Ozcelik, O. (2022). Impact of tokenization on language models: An analysis for Turkish. Retrieved from <https://arxiv.org/abs/2204.08832>

Skills

Languages  Turkish (Native), English (TOEFL: 96), Basic Spanish.

Coding  Python (Experience in PyTorch and Huggingface libraries), C, C++, Java, MATLAB, \LaTeX

Honors

-  **Ranked 1st** in Turkish Harmful Tweet Detection Competition at CheckThat! Lab on Fighting the COVID-19 Infodemic and Fake News Detection.
-  **High Honor List** (×6), Semester GPA > 3.5/4.0.

Honors (continued)

- **Honor List** (×2), $3.0/4.0 < \text{Semester GPA} < 3.5/4.0$.
- **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
- **Prof. Haldun Ozaktas** (Co-Advisor), Bilkent University, Ankara, Turkey.
email: haldun@ee.bilkent.edu.tr
- **Assoc. Prof. Tolga Çukur** (Instructor), Bilkent University, Ankara, Turkey.
email: cukur@ee.bilkent.edu.tr