

Alperen Karan

Curriculum Vitae

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Research Interests

- Machine learning, Deep learning
- Topological data analysis, Persistent homology
- Cognitive psychology, Music cognition

Computer skills

- Python (*fluent*) - hands-on experience in libraries such as numpy, pandas, matplotlib, seaborn, scikit-learn, keras, tensorflow etc.
- PyCharm, DataGrip, MATLAB, SPSS
- (Postgre)SQL, L^AT_EX
- AWS (experience with S3 and Step Functions)

Education

- Present **PhD**, *Mathematical Engineering*, Istanbul Technical University, Turkey.
2019 **M.A.**, *Psychology*, Boğaziçi University, Turkey.
2015 **M.S.**, *Mathematics*, Boğaziçi University, Turkey.
2013 **B.S.**, *Mathematics*, Boğaziçi University, Turkey.

Work Experience

- 09.2021 - Present Data Scientist, *Getir*, Turkey.
12.2013 - 09.2021 Research assistant, *Istanbul Technical University*, Turkey.

Publications

1. Karan, A., & Kaygun, A. (2021). Time Series Classification via Topological Data Analysis. *Expert Systems with Applications*, 115326.
2. Karan, A., & Mungan, E. (2018). In Further Search of Tonal Grounds in Short Term Memory of Melodies. In R. Parncutt & A. Schiavio (Ed.), *Proceedings of the Fifteenth International Conference on Music Perception and Cognition* (p. 237-243), Karl-Franzens Universitaet Graz.
3. Gillam, W. D., & Karan, A. (2017). The Hausdorff topology as a moduli space. *Topology and its Applications*, 232, 102-111.

Languages

- Turkish (*native*)
- English (*fluent*)
- French (*beginner*)