

Yasin Ilkagan Tepeli

Contact: +31 (6) 8248 3646 - y.i.tepeli@tudelft.nl - LinkedIn

Links: Github Scholar

RESEARCH INTERESTS

Therapeutic Target Prediction in Cancer, Synthetic Lethality, Sample Selection Bias, Semi-supervised Learning, Deep Learning, Natural Language Processing

EDUCATION AND RESEARCH VISITS

Ph.D. in Delft Bioinformatics Lab 2020-...

Faculty of EEMCS, TU Delft, NETHERLANDS

GPA: - 4th year **Supervisor:** Joana Gonçalves

Thesis: Computational Tools for Optimizing Targeted Cancer Treatments and Addressing Bias

Visiting Ph.D. in IorioLab (FHT) 2023-2024

Human Technopole, Milan, ITALY

GPA: - 3.5 months **Supervisor:** Francesco Iorio

Research: Stratifying Oncogene Addicted Cohorts by Drug Response

M.Sc. in Computer Science 2018-2020

Faculty of Engineering and Life Sciences, Sabanci University, TURKEY

GPA: 3.81/4 Graduated **Supervisor:** Oznur Tastan

Thesis: Discovering Cancer Patient Subgroups with Functional Graph Kernels

B.Sc. in Computer Science 2013-2018

Faculty of Engineering, Bilkent University, TURKEY

GPA: 3.57/4 **Ranking:** 14/229 **Supervisor:** Cigdem Gunduz Demir

Thesis: AeroCast - Forecasting Flight Prices for Fixed Travel Days

PUBLICATIONS

(In Submission) 2024

Tepeli, Y.I., de Wolf, M., Gonçalves, J. Metric-DST: Mitigating Selection Bias Through Diversity-Guided Semi-Supervised Metric Learning

(In Submission) 2024

Tepeli, Y.I., Gonçalves, J. DCAST: Diverse Class-Aware Self-Training Mitigates Selection Bias for Fairer Learning

(In Submission) 2024

Goossens, S., **Tepeli, Y.I.**, Gonçalves, J. Integrated learning of mutational signatures and prediction of DNA repair pathway deficiencies

(In Submission) 2024

Pillay, S., **Tepeli, Y.I.**, van Lent, P., Abeel, T. A Metagenomic Study of Antibiotic Resistance Across Diverse Soil Types and Geographical Locations

(Published - Oxford Bioinformatics) 2024

Tepeli, Y.I., Seale, C., Gonçalves, J. ELISL: Early-Late Integrated Synthetic Lethality Prediction in Cancer

(Published - Oxford Bioinformatics) **2022**
 Seale, C., **Tepeli, Y.I.**, Gonçalves, J. Overcoming Bias in Synthetic Lethality Prediction

(Published - Düzce Üniversitesi Bilim ve Teknoloji Dergisi) **2022**
 Kuru, H.I., **Tepeli, Y.I.**, Tastan, O. GEGE: predicting gene essentiality with graph embeddings

(Published - Bioinformatics) **2020**
Tepeli, Y.I., I., Unal, A.B., Akdemir, F.M., Tastan O. PAMOGK: a pathway graph kernel-based multiomics approach for patient clustering

AWARDS, HONORS AND SCHOLARSHIPS

HIBIT 2020 Poster Award **2020**
 3rd best poster for PAMOGK: a pathway graph kernel-based multiomics approach for patient clustering

M.Sc. 2210-National Scholarship **2018-2020**
 TUBITAK- Directorate of Science Fellowships and Grant Programmes (BİDEB)

B.Sc. Comprehensive 100% Education Scholarship **2013-2018**
 Bilkent University

INTERNSHIP AND ASSISTANT EXPERIENCE

Teaching Assistant Ph.D. **2020-...**
 TU Delft - EEMCS
 Machine Learning in Bioinformatics

Teaching Assistant M.Sc. **2018-2020**
 Sabanci University - Computer Science Department
 Artificial Intelligence, Algorithms, Data Science, Machine Learning

Summer Internship **2017**
 HAVELSAN - Big Data Department

TECHNICAL SKILLS

Language	Python, R, Html, Javascript
ML & Optimization	Sci-kit Learn, Keras, Tensorflow, Gurobi, Mosek, skopt

LANGUAGES

Turkish	Mother tongue
English	Fluent (TOEFL IBT: 101/120 (R:30, L:25, W:25, S:21))
Dutch	Basic