

Kerem Ayöz

Computer Scientist

Aim to go beyond the limits of Computer Science with utilizing my education, experience and passion. Interested in Theory of Computation, Deep Learning and Algorithmic Game Theory.

Contact

✉ kerem.ayoz@bilkent.edu.tr

👤 keremayoz.github.io

☎ +905078763048

in 🗨 keremayoz

Skills

Programming

Python C C++ Java Scheme

Machine Learning

Keras PyTorch TensorFlow MATLAB

Computer Engineering

Unix System Verilog MIPS

Web Development

SQL JavaScript HTML/CSS Flask

Other

LaTeX Node-RED Git Gambit

Language

Turkish English

Exams

TOEFL iBT

Reading: 25 Listening: 26 Speaking: 25 Writing: 28
Total Score: 104

GRE General Test

Verbal: 142 Quantative: 170 Analytical: 3.5

Education

M.Sc. Computer Science

Bilkent University

01/2020 - 06/2021

Ankara, Turkey

- CGPA: 4.00 / 4.00, Research Scholarship
- Working under supervision of A. Ercument Cicek on genome privacy.
- Thesis: "Genome Reconstruction Attacks Against Genomic Data-Sharing Beacons"

B.Sc. Computer Science

Bilkent University

08/2015 - 01/2020

Ankara, Turkey

- CGPA: 3.72 / 4.00, Major GPA: 3.89 / 4.00, Comprehensive Scholarship
- Received the Theorist Award in CS Fair 2019.

Science High School Diploma

Meram Science High School

08/2011 - 08/2015

Konya, Turkey

- ÖSYM Exam Rank: 871th among 2 million candidates, Score: 93.47

Experience

Teaching Assistant

Bilkent University

02/2020 - Present

Ankara, Turkey

- Assisting to CS-476 Automata Theory and Formal Languages course.
- Received the Outstanding Teaching Assistant Award in CS Fair 2020.

Undergraduate Researcher

CICEKLAB

02/2018 - 02/2020

Ankara, Turkey

- Took part in development of a Prize-Collecting Steiner Tree based gene discovery algorithm.
- Studied privacy risks of gene sharing beacon systems, designed genome reconstruction algorithms.

Candidate Software Engineer

HAVELSAN

09/2018 - 09/2019

Ankara, Turkey

- Built an image classification application at Command and Control Department using Java and Python.

Software Engineering Intern

IBM

07/2018 - 08/2018

Istanbul, Turkey

- Completed IoT projects, used IBM Watson and Node-RED services with Arduino Yun and Raspberry Pi.

Publications

Genome Reconstruction Attacks Against Genomic Data-Sharing Beacons

Kerem Ayož, Erman Ayday, A. Ercument Cicek
arXiv preprint, under review

The Effect of Kinship in Re-identification Attacks Against Genomic Data Sharing Beacons

Kerem Ayož, Miray Aysen, Erman Ayday, A. Ercument Cicek
Bioinformatics 2020, to appear in the Proceedings of ECCB 2020

Academic Activities

- Presented my work "The Effect of Kinship in Re-identification Attacks Against Genomic Data Sharing Beacons" at GenoPri'20, HIBIT 2020, ECCB 2020.
- Did a joint paper review with A. Ercument Cicek in ISMB 2020.