Selahaddin HONİ

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Daejeon, Korea

**EDUCATION**

**KAIST** **— Korea Advanced Institute of Science and Technology** Daejeon, Korea

Joint Master & PhD **·** School of Computing since 2024

**Advisor:** Prof. Junehwa Song

**Research Interest:** Human-centered computing · Interactional & Social Computing · Mobile Computing · Applied AI

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**KAIST** ·Exchange Student & Visiting Student Researcher 2023

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**Istanbul Technical University** Istanbul, Turkiye

Bachelor **·** Electronics & Communications Engineering **·** GPA: 3.54 / 4.00 2022

**Advisor:** Prof. Bilge Günsel **Thesis:** Deep learning for long-term visual tracking of people

**EXPERIENCE**

[**Graduate Student Researcher in KAIST**](https://nclab.kaist.ac.kr/)Daejeon, Korea

**NC Laboratory** Apr 2024 to Present

I research on the design of human-centered computational systems in collaboration with AI to drive meaningful societal impact.

[**Visiting Student Researcher in KAIST**](https://vllab.kaist.ac.kr/)Daejeon, Korea

**Vision and Learning Laboratory** Jul 2023 to Dec 2023

Visual Token Matching (ICLR’23) is a general-purpose few-shot learner for arbitrary visual dense prediction tasks. To address its limitation in modeling temporal information, I integrated temporal attention into its framework. On the DAVIS2016 benchmark, the improved model outperformed the baseline by 8.89% in 1-shot and 4.37% in 2-shot settings.

[**Undergraduate Researcher in Istanbul Technical University**](https://mspritu.github.io/)Istanbul, Turkiye

**Multimedia Signal Processing and Pattern Recognition Research Group** Aug 2021 to Mar 2022

We developed a novel inference architecture using re-identification features for data association in long-term visual object tracking. Our tracker achieved competitive performance on person tracking in the VOT-LT 2021 benchmark.

[**Intern in TUBITAK BILGEM (Sci. & Tech. Research Council of Turkiye)**](https://bilgem.tubitak.gov.tr/en)Kocaeli, Turkiye

**Communication & Signal Processing Lab.** Jul 2020 to Sep 2020

Our team created an end-to-end communication channel for a control model using GNU Radio. We built physical, data link, network, and transport layers and applied basic modulations on LimeSDR hardware.

[**Intern in HAVELSAN Inc.**](https://www.havelsan.com.tr/en)Ankara, Turkiye

**Big Data & Artificial Intelligence Section** May 2020 to Jun 2020

I led a visual gesture recognition project, created a custom dataset and a real-time app, and won an innovation award.

[**Intern in BAYKAR Technologies**](https://www.baykartech.com/en/)Istanbul, Turkiye

**Control Simulation & Embedded Software Dept.** Jun 2019 to Sep 2019

My team deployed a web platform for converting embedded C code to C# code.