

# 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

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

**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** 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** 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** 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)** 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.** 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** 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.