

ALİ EFE KIŞLAK

📍 Paris, France

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EDUCATION

Sorbonne Université

Master of Science in Physics – Paris Physics Master (PPM)

September 2026 - Expected June 2028

Izmir Institute of Technology

Bachelor of Science in Physics

September 2021 - June 2026

EXPERIENCE

IZTECH Integrated Research Centers

Research Intern

March 2026 - May 2026

- Conducted structural analysis using Transmission Electron Microscopy (TEM)

Paris Institute of NanoSciences, Sorbonne University

Research Intern

January 2026 - March 2026

- Investigated the surface and optical properties of low-dimensional oxide materials.

CENT Research Group

Research Intern

April 2023 - December 2025

- Density Functional Theory (DFT) calculations
- Developed a task manager app for internal communication and project tracking in the laboratory

Joint Institute for Nuclear Research, Moscow

Research Intern

August 2025 - October 2025

- Experimental nuclear physics, investigating radiation effects and defects in solids

AVCI Rocket Team

Team Member

November 2021 - October 2023

- Production & Recovery System Design
- Finalists at the Teknofest 2023 Rocket Competition

Teknoma Technological Materials Industrial and Trading Inc.

R&D Intern

April 2022 - September 2022

OZYUZER Research Group

Research Intern

October 2021 - September 2022

- Dielectric and Thin Film Laboratory

MANUSCRIPTS

- A Combined Theoretical and Experimental Study on the Nuclear Characteristics of B_4C (in preparation)
- From Bulk to Monolayer: A Comparative Study of Structural, Vibrational, and Electronic Properties in Possible Low-dimensional Phases of $PbSnS_2$ (in preparation)

PRODUCTS

GPA Wizard

Developed and published a GPA calculator app on the App Store using Swift and SwiftUI

LANGUAGES

Turkish: Native

English: Advanced

Mandarin Chinese: Elementary

Russian: Beginner

French: Beginner

TECHNICAL SKILLS

Software Skills VASP (The Vienna Ab initio Simulation Package) • Phonopy • P4Vasp • VESTA
Linux • MATLAB • OpenRocket • Adobe & MS Office

Programming Languages Python • Bash • Dart • Swift

Fabrication Methods Thin Film Deposition (DC/RF Sputtering & Thermal Evaporation)

Characterization Methods TEM • Raman & Photoluminescence (PL) • Vacuum FTIR (w/ Cryostat)
UV-VIS-NIR Spectroscopy • Thickness Profiler