

Nikolaos Korakis

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Education

NATIONAL KAPODISTRIAN UNIVERSITY OF ATHENS

BS IN CHEMISTRY

Sep 2020 - Jun 2024

- Grade 9.3/10
- 1st amongst graduates of 2024
- Thesis:** Theoretical review of radioactive beta decay and spectral derivation of nuclear matrices

Fundamentals Overview

- Physical Chemistry, Quantum Mechanics, Nuclear Chemistry, Fundamentals of spectroscopy
- Inorganic Chemistry, Chemistry of MOFs, Analytical Chemistry, Organic Chemistry

Courses - Seminars

- Demokritos - summer school, 2022, 2023, 2024
- Seminar: "Advancements in Transmission Electron Microscopy and Spectroscopy: Exploring Analytical and In-Situ Techniques"

Skills

PROGRAMMING

Python • Matlab

USER OF:

Chemdraw • Quantum Espresso • MolPro • Matlab • Origin • Igor

LANGUAGES

Greek (Native)
English (C2 - 104 TOEFL IBT)

ADDITIONAL

Windows/Linux OS • \LaTeX • Microsoft Office

Awards

ACADEMIC PERFORMANCE

- Awarded for excellent academic performance for graduating 1st in 2024.

Research experience

RESEARCH ASSOCIATE

PROF. DEMETER TZELI'S GROUP - THEORETICAL CHEMISTRY

July 2024 - Currently

Attica, GR

- Contributing research on Electronic Structure and bonding analysis of transition metal compounds

RESEARCH ASSISTANT

NATIONAL HELLENIC RESEARCH FOUNDATION

- Contributed in developing a novel ab initio model of Thermoluminescence
- publication:
(<https://doi.org/10.1016/j.physb.2024.416700>)
- conference presentation:
(<https://doi.org/10.2139/ssrn.4809121>)
- presented poster in 7th Hellenic Institute of Nuclear Physics:
(<https://doi.org/10.1051/epjconf/202430401016>)
- poster presentation: "Electronic structure of the MoLi, MoBe, and RuB molecules: Ground and Low-Lying States" at ACAC

Volunteering experience

VOLUNTEER

ATHENS SCIENCE FESTIVAL

2022

Attica, GR

2024

Attica, GR

- Participated as volunteer in organizing different events
- Presented chemistry experiments to a wide audience

Army Service

GREEK SPECIAL FORCES

Sep 2024 - Jun 2025

Rhodos, GR

- Served as Amphibious Commando specialized as transmitter/cryptographer