

Guy Paiss

Physical Chemistry Graduate (MSc)

► 13.03.1993

Contact

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Skills

Software-Development
(Python/Matlab/C++)

Optoelectronics lab ex-
perience

Solid State science

Web-Developer
(HTML5/CSS3/React)

Electronic Microscopy
operation

Hebrew L1

English C1

Education

03/2018 - 06/2021

Physical Chemistry (M.Sc.)

Tel Aviv University

08/2011 - 08/2014

Computer Science + Chemistry
(B.Sc.)

Tel Aviv University

Objectives

Graduated from Tel Aviv University with a dual BSc degree in computer science and chemistry at part of the army "atuda". I served my mandatory military service and was discharged with excellence after three years. I have currently finished a master's research in optoelectronics at Professor Ori Cheshnovski's research group in the Chemistry Department. My research involved semiconductors and their characterization by optical means (Super Continuum Lasers). I am looking for a full-time position that utilizes my skills.

Work experience

Research assistant | MSc student

03/2018 - 06/2021

Department of Chemistry (Ori Cheshnovski)
Tel-Aviv University

As part of my MSc degree, I researched single particle microscopy on semiconductor nanowires. I gained experience in a variety of optomechanical parts, and electronic instruments such as oscilloscope, spectograph and lock-in amplifier. I have also gained experience with camera and image processing programs such as Basler Pylon and Gatan and experienced with programming and modelling in CVI/LabWindows (C), Spider (Python), Solidworks, Matlab and Lumerical.

Optical Technician

03/2018 - 06/2021

Department of Chemistry (Ori Cheshnovski)
Tel-Aviv University

In our lab, experiments were conducted via self built reverse microscope (mostly from Thorlabs optomechanical parts), and I was the sole person responsible to build, maintained and work with the microscope. Extra responsibilities were to program all of the hardware needed (such as Micronix Piezo-Electric Motors. NI DAQ) to a self programmed API

Teaching Assistant in Python

10/2018 - 10/2020

Tel Aviv University

I was a teaching assistant in python programming, it included lecturing in front of first year BSc students in chemistry and Math

Publication

- Author, Uri Hananel, Gal Schwartz, Guy Paiss, Lorenzo Arrico, Francesco Zinna, Lorenzo Di Bari, Ori Cheshnovsky, Gil Markovich(2020). "Time-resolved circularly polarized luminescence of Eu^{3+} - based systems".
- Author, Gyanendra Singh, Yossi Mosbacher, Ranit Roy, Dror Hershkovitz, Guy Paiss, Ori Cheshnovsky. "STEND: Stimulated emission non-linear-depletion super-resolution microscopy".