

## Education

**2014: The Dr. Moses Strauss Department of Marin Geosciences, Leon H. Chamey School of marine sciences at the University of Haifa**, started my PhD in geophysics and marine science.

**2010: Technion**, Israel Institute of Technology, finished my M.Sc. in particles and high energy physics (Experimental).

**2006: Technion**, Israel Institute of Technology, finished my B.Sc. in physics.

## Courses

**2020:** Infinity labs R&D four months course: The open lab covers a full range of development tools, technologies and techniques. From embedded targets, Linux kernel & drive development, C system programming, participant used a wide range of development, integration and testing tools and techniques, and image processing.

**2006-2010: in my B.Sc. :** physical chemistry, biology, biophysics courses.

## Programming Background

Programming languages: know C, basic knowledge in C++.  
Familiar with Linux environment. MATLAB, COMSOL.

## Projects:

- Methane gas bubble rise within fine-grained aquatic sediments, writing mathematical model sported with comsol simulations, during my PhD. **Fields of knowledge: biochemistry, gas dynamics, and fracture mechanics.**
- Validation and performance improvement of ATLAS muon chambers chips, during my M.S.c. **Fields of knowledge: particle physics - supersymmetry models, programming and experimental validation.**
- Working on ATLAS detector in CERN, during my M.S.c
- OS schaguler, in Infinity Labs course.

## Work Experience

**2010-2021** Research at The Technion and The Dr. Moses Strauss Department of Marin Geosciences, Leon H. Chamey School of marine sciences at the University of Haifa.

**2018 -2020** Physics lecturer in Ort Braude Karmiel

**2010 – 2018: Ministry of Education, IT-Works Association, AXIOMA:** teaching and guiding high school students in physics and physics research.

## Volunteering

**2014 :** initiating " Halom" teaching program in Druze schools.

**2013 :** Technion Department of Education - a member of a commission, that counsel and promote projects that can improve the education in Israel

**2011 – 2013:** partner in initiating the first space center in the Druze community.

**2008 – 2011:** Technion, Student Promotion Unit – assistance Druze girls to blind in academic life

**2005 -2011:** Maghar community center – taught flute, physics, chemistry and math.

### **Languages**

Arabic: my first language, Hebrew : very good, English : very good

### **Published Articles**

<http://www.springerlink.com/content/n68r779083645251/>

<http://arxiv.org/abs/1106.4495>

<https://doi.org/10.1021/acs.est.8b06848>