

Shira Zion
Haifa, Israel
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EDUCATION

PhD Degree in Medicine **2021 – present**

Technion – Israel Institute of Technology, Haifa, Israel

Supervisor: Associate Professor Ruth Hershberg

Laboratory of Evolutionary Genomics, Department of Genetics, Faculty of Medicine

Bachelor's Degree in Biology **2013 – 2017**

Lomonosov Moscow State University, Moscow, Russia

Supervisor: Associate Professor Irina V. Elanskaya

Laboratory of Genetics, Genomics and Genetic Engineering of Bacteria, Department of Genetics, Faculty of Biology

Master's Degree in Biology **2017 – 2019**

Lomonosov Moscow State University, Moscow, Russia

Supervisor: Associate Professor Irina V. Elanskaya

Laboratory of Genetics, Genomics and Genetic Engineering of Bacteria, Department of Genetics, Faculty of Biology

EXPERIENCE

WORK EXPERIENCE

Software developer (Python) **July 2019 – August 2020**

IT-Razrabotki, Moscow, Russia

- Participated in development of Geographic Information System (GIS) for urban pipe network modelling
- Developed software for different data types and file formats conversion
- Created software for hydraulic analysis of pipe network using graphs-theoretic approach
- Visualized modelling and analysis results
- Developed a service for automatic report generation in .docx and .xls formats

RESEARCH EXPERIENCE

Graduate Research Assistant

September 2017 – June 2019

Lomonosov Moscow State University, Moscow, Russia

- Completed Master's research on expression of *ndh* genes and photosynthetic activity in mutants strains of cyanobacterium *Synechocystis* sp. PCC6803
- Created numerous mutant strains of *Synechocystis* sp. PCC6803
- Performed comparative analysis of kinetics of photosystem I reaction center P700 reduction-oxidation in wild type and in different mutants of *Synechocystis* sp. PCC6803
- Maintained laboratory's collection of different strains of *Synechocystis* sp. PCC6803 and *Escherichia coli*

SKILLS

TECHNICAL SKILLS

- DNA and RNA analysis
- Maintaining microbiological cultures
- Plasmid vector engineering
- Experience in Python programming
- Experience in automatic data processing

PERSONAL SKILLS

- Problem solving
- Public speaking
- Collaborative and enthusiastic