Inbar Dahari

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EDUCATION

Ariel University

B.Sc. in Computer Science and Mathematics in Specialty Track of Bioinformatics.   **2020**
- **External course** Certificate in Biopython, Udemy online

SKILLS

Proficient in:
Python, Java, C++.
Familiar with:
Linux, Git, MySQL, MongoDB, Android Studio.
Bioinformatics information systems and applications:
- NCBI, BioEdit, Clustal Omega, BLAST, Needle, Water, LALIGN, UCSC table browser.
- Experience with Biopython.
- Knowledge of molecular biology and genomics.
- Knowledge in basic sequence alignment analysis; DNA, RNA and Protein.

ACADEMIC PROJECTS

Final Project Studies
- Automatic detection and analysis of parallel growth among neural dendritic branches by developed automatic quantification of the ratio in the neuronal networks and compared its value to that generated by combinatorial random growth simulation of dendritic branches. Using Python advanced frameworks, OpenCV libraries for segmentation process and GUI (PyQt4).
- The project is a part of a manuscript in preparation, that will be publish soon, by Prof. Danny Baranes Head of Molecular Biology Department and Dr. Rafael Mines, Physics Department, Ariel University.

Android application 'Carpool-U'
- An application for social hitchhiking where you can search and share rides for students and faculty members from a specific university. Using Android Studio and Firebase, NoSQL database type, to save information and publication.

Neuro-computational
- A Simulation of sending electrical signals in neurons by designing a simulator of a leaky integrate and fire neuron as a "bucket", when it reaches to the max capacity the threshold function is activating. Using java.

OTHER

Languages Hebrew - native | English - fluent | French - proficient
Work Experience Embassy of Israel in Paris, France.   **2014-2016**
National Service Ministry of Foreign Affairs, Jerusalem.   **2012-2014**

PROFESSIONAL SUMMARY

- o Extremely motivated to constantly grow professionally and to have an opportunity to promote scientific research that combines biology and computer science.
- o High work ethic, good interpersonal skills, and self-learning ability.
- o Excellent organizational skills.