

# ELISHA GOLDSTEIN

+972 50 3222832

elishagoldstein0308@gmail.com



## Professional Summary

Dedicated and passionate Data Scientist with three years of experience in data science, and machine learning in healthcare and biology. Eager to do meaningful things, learn and excel. Analytical, organized, costumer oriented, and willing to work as part of a team as well as independent.

## Skills

- Data Science
- Machine Learning
- Deep Learning
- Computer vision
- Healthcare
- Time series
- Python, R, SQL, Java, C++, MATLAB
- Linux, Git, LSF, Docker
- ML packages: PyTorch, Pandas, SciKit-Learn, Numpy, OpenCV, Matplotlib
- Team player
- Scientific research
- Strong Communication skills and Interpersonal skills
- Costumer oriented

## Work History

**DATA SCIENTIST**, 2020 - 2022

**Bioinformatics unit, Life Science Core Facilities**, at Weizmann Institute of Science

- Deployment of classification system in Beilinson medical center for detection of Covid-19 in patients.
  - Developed Convolutional Neuronal Network with **PyTorch** for chest X-ray images classification.
  - Created a standalone system for clinicians with adaptations to user's needs using **Python**.
- Analyzed clinical and biological images (placenta 3D MRI scans, cells images) with **OpenCV, Deep Learning** and **unsupervised clustering** algorithms, running on **Docker** and **Linux OS**.
- Developed PyPi package for detecting RNA editing using Bioinformatics (**Python, Bioconda**) on **Linux OS**.
- Performed analysis of big genomic data and built prognosis prediction models with classical ML models (XGBoody, SVM, Regressions), **Scikit-Learn, Numpy** and visualizations with matplotlib.
- Data exploration, visualization, and manipulation using **Pandas, Matplotlib, Plotly**.
- Teamwork and collaboration with both researchers and developers using **Git**.
- Member of s board at [EPMA Journal](#) (European Association for Predictive Preventing & Personalized Medicine), papers reviews and Scientific research.

**ACADEMIC EXCHANGE**, 2019

**NRW State - Israel program, Friedrich-Wilhelms-University Bonn**, Bonn, Germany

- Performed survival analysis and personalized medicine modeling of liver cancer patients with use of Cox regression and unsupervised hierarchical clustering in **R** programming language.
- Awarded 'Best Presentation for Young Professionals', EPMA Congress (European Association for Predictive Preventing & Personalized Medicine), **Pilsen, Czech Republic**.

## Education

**Bar-Ilan University - Bachelor of Science**, 2019

Computer science, Biology, and Bioinformatics

- Awarded 1st place final project presentations, with the topic "Comparison of visual information in lower and upper vision fields". Project written in **Matlab**.
- Won 3rd place in Intel Hackathon (Sheba medical center challenge) using Random Forest models.

## Publications

- [COVID-19 Classification of X-ray Images Using Deep Neural Networks](#)
- [Unsupervised machine learning and 3 PM recommendations for best survival outcome in palliative treatment of liver malignancies](#)

## Informal activity

- **Medical clown** - volunteering in hospitals, 2022
- **Spoken Word, Debate** - University clubs, 2017-2019.
- **Family economic coach** at Paamonim social non-profit organization, 2016

## Languages

**Hebrew:** Native language

**English:**  C2

**Danish:**  C2

**German:**  A2