# Maya Kovalevsky

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Maya Kovalevsky | LinkedIn

Driven scientist with a strong analytical mindset and hands-on experience across data analysis, data science and biomedical engineering.

## **SKILLS**

- Data Analysis Tools: SQL, Excel, Tableau, PowerBI
- Programming Languages: Python, MATLAB
- Databases: MySQL, PostgreSQL
- Data Processing and visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly

#### PROFESSIONAL EXPERIENCE

### 2025-Now - Research Assistant, Weizmann Institute of Science

- Analyze imaging and spectroscopy data using advanced signal and image processing techniques.
- Develop and implement deep learning models for denoising noisy MRI images to enhance image quality.
- Conduct preclinical studies using MRI and NMR to investigate DMI imaging to detect cancer.

### 2017-2025 - Data Analyst | Biomedical Engineer, Insightec

- Quantitative Data Analysis: Conducted data mining and quantitative analysis on clinical and pre-clinical datasets to derive actionable insights, utilizing Python scripting and SQL to support decision-making in product development.
- <u>Tool Development for Quality Assurance:</u> Built and maintained databases in Python and SQL, optimizing data quality, organization, and retrieval. Automated data collection and cleaning processes, which reduced preparation time and enhanced data integrity.
- Algorithm Testing & Validation: Performed validation testing to ensure accuracy and consistency in data analysis processes.
  Documented findings and quality checks, contributing to data-driven product improvement.
- <u>Data Visualization & Reporting:</u> Developed visualizations and reports using Python libraries (Matplotlib, Seaborn, plotly) and PowerBI to communicate trends, enabling data-driven decisions and enhancing transparency with stakeholders.
- <u>Cross-Team Collaboration:</u> Partnered with R&D and scientific teams to ensure alignment on data standards and quality requirements, translating complex data into clear insights for diverse stakeholders.

# 2014-2017 - Masters Researcher | Biomedical Engineering, Technion

- <u>Data Analysis & Statistical Application:</u> Designed and analyzed in-vivo experiments, applying statistical principles to extract meaningful insights from physiological data. Developed signal processing algorithms in Matlab to assess complex biomedical data
- <u>Visualization & Reporting:</u> Created visual representations of data findings, effectively communicating complex results to support academic publications and further research objectives.

## 2016-2017 - Teaching assistant, Biomedical Engineering, Technion

- Taught the "Introduction to Control in Biomedical Systems" course frontal lectures
- Instructed the "Muscle Physiology" laboratory course designed/prepared experiments

# 2013-2014 - Quality and Operation Engineer, Ascent Medical Israel

- Prepared and submitted registrations for medical device import to the Ministry of Health, ensuring adherence to quality standards (ISO 9001:2008) and maintenance of quality control documents.
- Provided training to sales representatives on new medical equipment.

### **EDUCATION**

## 2014-2017 - M.Sc. in Biomedical Engineering, Technion-Institute of Technology

Thesis: A novel cardiac reserve index of monitoring cardiac function, based on the interplay between external work and pressure-time integral. (Advisor: Assoc. Prof. Amir Landesberg). (Final Grade: 91)

2012 - Clinical research associate (CRA) certificate, "Pharma Job" Bio-Medical college.

2008-2012 - B.Sc. in Biomedical Engineering (Biomechanics track), Ben-Gurion University.

## **MILITARY SERVICE & OTHER**

2006-2008 - Military service: sport instructor, Israeli Air Force.

2012-Today member of the Masters swimming team