Maya Kovalevsky

maria.kovalevsky@gmail.com 050-5748483  [Maya Kovalevsky | LinkedIn](https://www.linkedin.com/in/maya-kovalevsky-a9331115/)

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.
* Tool Development for Quality Assurance: 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.
* Data Visualization & Reporting: Developed visualizations and reports using Python libraries (Matplotlib, Seaborn, plotly) and PowerBI to communicate trends, enabling data-driven decisions and enhancing transparency with stakeholders.
* Cross-Team Collaboration: 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*

* Data Analysis & Statistical Application: 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.
* Visualization & Reporting: 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