# **Wael Mattar**

 ▼ Tel Aviv, IL
 Image: Waselmattar.95@gmail.com
 +972 52 6870 221

 Ø waselmattar.com
 in waselmattar.

### Profile \_\_\_\_\_

Applied mathematician with extensive knowledge and enthusiasm to solve real-life problems. Currently pursuing my Ph.D. at Tel Aviv University under the supervision of Prof. Nir Sharon.

#### Education \_\_\_\_\_

**Ph.D.** in Applied Mathematics at **Tel Aviv University** 2022 – present M.Sc. in Applied Mathematics at Tel Aviv University, Magna Cum Laude 2018 - 2021

- 97 thesis grade and 91 GPA
- Thesis topic: Multiscale Representations of Manifold-valued Data Via Subdivision Operators
- Coursework: Mathematical Foundation of Machine Learning, Optimization, Spectral Methods in Data Analysis

**B.Sc.** in Applied Mathematics at **Ort Braude College**, Cum Laude 2015 - 2018

- 86 GPA
- Final project: Analyticity of Semigroups
- Coursework: Data Structures, Algorithms, Numerical Analysis and Approximation Theory
- 2 research-level seminars in Complex Analysis

## Experience \_\_\_\_\_

<ul> <li>Tel Aviv University, Teaching Assistant</li> <li>Teaching Harmonic Analysis and Ordinary Differential Equations to Engineering students, and Scientific Computing for Mathematicians.</li> </ul>	Tel Aviv, IL 2022 – present
<ul> <li>Nemodata, Data Scientist</li> <li>Developing mathematical models to predict vehicle malfunctions based on acquired data and scheduling preventive maintenance accordingly.</li> </ul>	Tel Aviv, IL 2021 – 2022
Ort Braude College, Teaching Assistant  • Teaching Calculus, Algebra and Differential Equations to Engineering students.	Tel Aviv, IL 2018 – 2021

#### P

2025
2025
_

2023

## Pyramid Transform of Manifold Data via Subdivision Operators

W. Mattar, N. Sharon

IMA Journal of Numerical Analysis, Volume 43, Issue 1, Pages 387 - 413, 2023.

## Awards and Scholarships \_\_\_\_\_\_

- 1. Excellence in Doctoral Research Award granted by the School of Mathematical Sciences, TAU (July 2025)
- 2. The Nehemia Levtzion Scholarship for Outstanding Doctoral Students From the Periphery (August 2023)
- 3. Excellence in Research, granted by the faculty of Exact Sciences, TAU (April 2023)
- 4. The Council for Higher Education Scholarship for Arab Students in Graduate Studies (December 2018)

#### Skills \_\_\_\_\_

**Programming:** C, Python, MATLAB and LaTeX

Languages: Arabic as a native language, English and Hebrew in full proficiency.