Ariel Amsalem - Curriculum Vitae

Department of Mathematics · University of Haifa
Haifa, Israel
rel011235@gmail.com
+97252-4585715

RESEARCH INTERESTS

Representation Theory, Separable deformations of algebras (the Donald–Flanigan Problem), Graded Algebras, Fell bundles. Specifically interested in analytic applications for theories in graded modules.

EDUCATION

Ph.D. in Mathematics May 2026
University of Haifa Haifa, Israel

- **Advisor:** Prof. Yuval Ginosar, Dr. Ofir Schnabel, Dr. Ami Viselter
- **Thesis:** *The Mackey analysis of Hilbert bundles over Fell bundles*

M.Sc. in Mathematics, Awarded with distinction September 2019
University of Haifa Haifa, Israel

- **Advisor:** Prof. Yuval Ginosar
- **Thesis:** *Separable deformations for a family of metacyclic group algebras*

B.Sc in Mathematics, Cum Laude June 2015
University of Haifa Haifa, Israel

PUBLICATIONS AND PREPRINTS

Published

An inductive method for separable deformations, with Y. Ginosar, The Quarterly Journal of Mathematics (2024), no. 2, 749–755.

In preparation

1. *Hilbert bundles over Fell bundles - correspondence with graded modules*
2. *The Mackey analysis of Hilbert bundles over Fell bundles*

AWARDS AND FELLOWSHIPS

Professor Dan Botanario's Excellence Award 2018

SELECTED TALKS

- *The Mackey analysis of Hilbert bundles over Fell bundles*, University of Haifa, Israel 2026
- *An inductive method for the Donald–Flanigan Problem*, The Yang–Baxter equation Conference, Blankenberg, Belgium 2023
- *Separable deformations of some metacyclic group algebras*, IMU Student talks day, Ben-Gurion University, Israel 2021

TEACHING EXPERIENCE (AS A LECTURER)

Yezreel Valley College Yezreel Valley, Israel

- Discrete mathematics for Information Systems (2024, 2025, 2026)
- Calculus A for Information Systems (2023, 2024, 2025)
- Linear algebra for Economics (2020)

University of Haifa Haifa, Israel

- Calculus A for Statistics (2022, 2023)
- Calculus A for Information Systems (2021)
- Calculus A for Economics (2020)
- Linear algebra A for Computer Science (2021)