

Yuval Ayali

Industrial designer, researcher, and educator working at the intersection of computation, material research, and experimental fabrication. My work focuses on developing custom tools, machines, and workflows that rethink how materials, technologies, and communities interact with design and architecture.

Experience

2025–present | Industrial Designer | Davidson Institute of Science Education, Weizmann Institute of Science, Rehovot

- Collaborate with scientists, educators, and engineers to design and build interactive systems that translate complex scientific ideas into tangible, engaging experiences.
- Lead the full development arc from ideation and R&D through design, prototyping, fabrication, and on-site installation—meeting strict institutional standards for safety, accessibility, reliability, and long-term maintenance.

2024–present | Lecturer | Negev School of Architecture, Sami Shamoon College

- Teaching mandatory second- and third-year undergraduate courses in Digital Fabrication and Digital Material Culture, emphasizing research-through-making and experimental fabrication workflows.
- Facilitated and led academic seminars on computational design and large-scale 3D printing.
- Guided students in implementing computational workflows through 1:1 scale manufacturing, moving beyond digital models to full-scale architectural applications.

2024–present | Freelance Product & Exhibition Designer | Tel Aviv & Jerusalem

- Tetro (Industrial OEM) — Product designer specializing in technology implementation (CFPM and TFP), supporting the integration of advanced manufacturing processes.
- Jerusalem Municipality – Department of Culture — Art-directed and curated the permanent exhibition for the Department’s new building.
- Hebrew University — Edmond & Lily Safra Center for Brain Sciences (ELSC) — Collaborated on the design and production of an exhibition project.

2023–present | Research Associate | Negev School of Architecture, Sami Shamoon College, Be’er Sheva

- Working under PI Nof Nathansohn on large-scale 3D printing of soil and organic materials.
- Responsible for both parametric design workflows (Grasshopper, computational modeling) and technical development of custom machinery.
- Research showcased at the Venice Architecture Biennale 2025, in collaboration with WASP (Italy).

Yuval Ayali
+972 52-487-1750
@ayali_yuvali
yuvalayali@gmail.com

Based in
Tel Aviv - Jaffa, Israel

Education

-B.Des in Industrial Design
Bezalel Academy of Art and Design,
Jerusalem.
2020-2024
GPA 91.52
-Exchange Student,
Escola Massana,
Barcelona, Spain

Scholarships and awards

Erasmus+ KA107 Scholarship.
(2022-2023)
Bezalel Sustainability Excellence
Award. (2024)

Skills

Computational Design & Prototyping,
Technological/Material Research,
Sustainable Design,
Interdisciplinary Collaboration

Technical Skills

Hardware & Software Integration,
Digital Fabrication, CAD Modeling,
3D Rendering

Languages

Hebrew (Native)
English (Fluent)
Spanish (Proficient)

2018–2019 | Field Operations Specialist | CropX, Wichita, Kansas, USA

- Oversaw product shipments, installation, and calibration for U.S. clients of an Israeli agri-tech startup.
- Conducted software and hardware diagnostics, identifying and resolving bugs to ensure reliable system performance.
- Interfaced directly with clients, providing technical support and on-site training.

2016–2018 | National Service | Construction Team Coordinator | Hava ve Adam Ecological Educational Center, Modiin

- Led a team of 8 in designing and constructing sustainable outdoor classrooms.
- Integrated ecological principles into functional learning spaces used by hundreds of students annually.
- Coordinated planning, material sourcing, and on-site execution.

Selected Exhibitions

- 2025 Forms of Query, Clore Gallery, Jerusalem. Curated by Marin Zorea.
- 2025 Intelligens. Natural. Artificial. Collective. Curated by Carlo Ratti. Venice Architecture Biennale. Venice, Italy. Research Associate under PI Nof Nathansohn.
- 2025 Human Nature, Clore Gallery, Jerusalem. Curated by Or Shoshani & Itay Ohali.
- 2024 Forecastshadowing, Rothschild Foundation Gallery, Tel Aviv. Curated by Asaf Inden.
- 2023 Falsehoods, Jerusalem Design Week, Hansen House, Jerusalem. Curated by Dana Ben-Shalom & Sonia Oltyski.

Publications

Peer-reviewed

- Nathansohn, N., Gillis, E., Ayali, Y., Linker, G., Faraj, T., Lifshitz, D., Bakun-Mazor, D., & Mayzlish-Gati, E. (2025). Form to Table: Integrating soil 3D printing and botanical science for urban agriculture. CAADRIA 2025 Proceedings, Vol. 2, pp. 79–88..

Reports & Surveys

- Nathansohn, N., Gillis, E., Ayali, Y., & Linker, G. (2023). To Grow a Building. In: Additive Manufacturing in Construction – Global Survey of Practices. Danish Technological Institute, Government of Denmark.