

Yasha Jacob Grobman – Resume

Date and place of birth: 1967, Moscow, Russia.

Married+3.

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Academic Degrees

- 2004-2008 PhD, Technion, Faculty of Architecture and Town Planning. Haifa, Israel.
- 2000-2002 M.Arch, Architectural Association School of Architecture, Design Research Laboratory (DRL). London, United Kingdom.
- 1992-1997 B.Arch. Bezalel Academy of Art and Design. Department of Architecture Jerusalem, Israel.
- 1985-1987 Graduate, Israeli Air-Force Aviation Academy. Hatzerim, Israel.

Academic Appointments

- 2018-present Associate Professor (tenured). Technion, Israel Institute of Technology. Faculty of Architecture and Town Planning. Israel.
- 2015-2016 Visiting Assistant Professor. Daniels School of Architecture. University of Toronto. Canada.
- 2015-2016 Visiting Assistant Professor. School of Architecture, Faculty of Engineering, McGill University. Canada.
- 2015-2016 Visiting Assistant Professor. School of Architecture. Waterloo University. Canada.
- 2010-2018 Assistant Professor. Technion, Israel Institute of Technology. Faculty of Architecture and Town Planning. Israel.
- 2009-2010 Post-Doctoral Fellow. Harvard University, Graduate School of Design (GSD). Cambridge. USA.
- 2009-2010 Studio Instructor. Boston Architecture College (BAC). Boston. USA.
- 2007-2009 Lecturer. The College of Management (COM), Interior Design department. Rishon Lezion. Israel.
- 2008-2009 Adjunct Lecturer. Tel Aviv University, the Porter School of Environment Studies. Israel.
- 2004-2009 Adjunct Teacher. Technion, Israel Institute of Technology. Faculty of Architecture and Town Planning. Israel.

Administrative Appointments

- 2019-present Dean. Faculty of Architecture and Town Planning. Technion.
- 2016-2018 Associate Dean for Student Affairs. Faculty of Architecture and Town Planning. Technion.
- 2013-2015, 2017-2019 Chair. Center for Architectural Research and Development. Faculty of Architecture and Town Planning. Technion.

Professional Registrations

- Licensed architect in Israel since 2001. License number 108298.
Official Israeli "Architects Trainer" since 2013.

Professional Experience

- 2003- 2016 Axelrod Grobman Architects, co-founder and principal, Tel Aviv, Israel.
- 2002 Zaha Hadid Architects, Architect, London, UK.
- 2000 Nir Chen Architects, Project Architect, Tel Aviv. Israel.
- 1999 - Today Grobman Architects, Founder and Principal, Tel Aviv, Israel.
- 1996 - 1999 Chyutin Architects Ltd, Architect. Givatayim, Israel.

Research Interests

- A - Design computation and performance-oriented architectural design.
- B - Sustainable architectural design.
- C - Computer aided manufacturing.
- D - The connection between digital design research and architectural practice.

Teaching Experience

Courses taught (last 3 years)

- 2017 BIM Studio – undergraduate selective experimental design research studio on cellular building and building envelopes, ~12 students (Heb).
- 2015-2020 Observation, Representation and Modeling 2 – Advance computational tools for Architecture and Landscape Architecture, ~100 students (Heb).
- 2013-present Observation, Representation and Modeling 1 – Introduction to Computational tools and theories in Architecture and Landscape Architecture, Undergraduate compulsory course, ~100 students (Heb).
- 2012-2018 Advanced Building Information Modeling - advanced concepts of Building Information Modeling. Graduate selective course (collaboration with Prof. Rafael Sacks, Civil Engineering faculty, Technion), ~25 students (Eng/Heb).
- 2017- present Performalism – graduate seminar on the connection between form, function and performance in digital architecture. ~20 students (Eng/Heb).
- 2011- present Computer based manufacturing methods in architecture. Graduate selective course. ~25 students (Eng/Heb).

Teaching in invited workshops and master classes abroad

- 2016 Invited workshop “Topological Interlocking in Architecture”. Inha University Department of Architecture. Incheon, Republic of Korea. ~50 graduate and undergraduate students (Eng).
- 2009 Invited workshop “Performatism - form and performance in contemporary architecture” generative use of simulation processes by architects. School of Architecture. University of Florida, Gainesville, USA. ~60 undergraduate students (Eng).
- 2007 Invited workshop “E-Architecture”. Xi'an University of Architecture and Technology (XAUAT), College of Architecture. Incheon, China. ~30 graduate and undergraduate students. In collaboration with Dr. Cesare Griffo (Eng).

Technion Activities

- 2015-2016 Member of the Technion Guangdong Building Coordination Committee
- 2015-2016 TechCity21 – Technion Campus strategic master plan until 2045. Co-Initiator and responsible (together with Prof. Sacks) on developing a strategy of moving the Technion design, construction and maintenance processes to be based on Building Information Modeling.
- 2011- 2015 Member of the Technion’s computer committee.

Departmental Activities

- 2018-2019 Elected Member of the Faculty of Architecture's Committees for Faculty Appointments and Promotions ("Faculty Preparatory Committee").
- 2017-2018 Member of the Faculty’s senior management committee.
- 2014-2015 Member and Chairman (from 7/2014) of the events Committee, Faculty of Architecture and Town Planning.
- 2014-2015 Responsible for the faculty industry relations.
- 2010-2015 Member and Chairman (from 10/2011) of the computing Committee, Faculty of Architecture and Town Planning.
- 2012 New faculty website – responsible for the design and content.
- 2011 Design, construction supervision, defining the machines configuration, purchasing and running the Faculty digital fabrication Lab.

Public Professional Activities**Editorial**

- 2017 – present Associate editor of Architectural Science Review journal (ASR).
- 2009 – 2018 Architecture of Israel Quarterly (AI) - Academic Editorial Board.

Occasional reviewer for journals and conference papers

- 2019 Journal of Biomimetics
- 2019 Association of Collegiate Schools of Architecture (ACSA) annual conference
- 2018 Journal of Architectural Education
- 2017 Architectural Science Review (ASR) journal

- 2017 Building and Environment journal
 2017 TAD - Technology| Architecture + Design journal
 2016 Sustainability journal
 2016 Buildings journal
 2016 ICord conference papers
 2015,2016,2017,2020 Automation in Construction journal
 2015 International Journal of Design Creativity and Innovation.
 2014-2016 Symposium on Simulation for Architecture and Urban Design (SimAUD) paper review.
 2013,2014,2016, 2018, 2019 ACADIA conference papers review.

Occasional recommendations for faculty promotion

Bezalel academy, IL; HIT, IL. Washington University in St. Louis, USA. Shenkar College, Israel.

Occasional reviewer for grants

- 2018 Social Sciences and Humanities Research Council of Canada
 2018 National Science Center, Poland

Invited guest juror in architectural schools' thesis project presentation/evaluation (graduate and undergraduate thesis projects)

- 2003-2016 Architectural Association (Design Research Laboratory), United Kingdom (2003). Architecture Faculty, Xian, China (2007). ETH Zurich, Switzerland (2008). Polytechnic University of Turin, Italy (2008). Harvard - GSD, Cambridge, USA (2009). Columbia University, NY. USA (2010). South Illinois University Carbondale, USA (2010). Northeastern University, Boston, USA (2010). Waterloo University School of Architecture, Cambridge. Canada. (2015, 2016). McGill University School of Architecture, Montreal, Canada (2016).
 2003-2018 Tel-Aviv University School of Architecture, Israel (2005, 2017, 2018). Bezalel Academy for Art and Design (Architecture Faculty), Israel (2007). Holon institute of technology, Israel (2007). The College of Management (COM), Interior Design department (2011, 2013, 2015). School of Architecture, University of Ariel (2012). NB Haifa, School of Design (2014).

Invited guest juror in architectural competitions

Abroad

- 2021 Czech Architecture Award 2021- invited jury member.
 2003 Miami Architectural Biennale Competition. Invited jury member.

In Israel

- 2019 Invited Jury member for 2019 best project award by the Israeli Association of United Architects in the future architecture category. May 2019.

- 2017 Design competition for a dormitory building, Technion, IIT. January 31st.
- 2017 Invited Jury member by the Israeli Ministry of Culture and Sports for selecting the curator and designer of the Israeli pavilion for the 2018 Venice Biennale. June 2017.
- 2004 Tel Aviv Museum new building competition. Jury member. 2004

Exhibition curating and organization

- 2011-2012 “5 Moments” – The inauguration exhibition of the new architectural wing at the new building of the Tel-Aviv museum of art. Initiator and co-curator with Arielle Blonder (catalogue book).
- 2008 Performalism – International Exhibition at the Tel-Aviv Museum of Art. Initiator and co-curator with Eran Neuman (catalogue). 6-9/2008
- 2003 Soft[ware] Boundaries – International Exhibition at the Israel Association of United Architects Gallery. Initiator and co-curator with Shelli Cohen.

Membership in Academic, Professional and Public Associations

- 2014-Today Member in the Israeli National Building Research Institute (NBRI).
- 2014-2016 Member in the CAADRIA (Computer aided design association Asia).
- 2015 Member of the Israeli Minister of Security building committee for developing a strategy of moving to Building Information Modeling (BIM).
- 2012-2013 Member of the professional committee nominated by the registrar of engineers and architects (Ministry of Industry, Trade and labor) for the development of a new examination for architects’ registrations. 2012-2013
- 2010 Member in the scientific committee of the annual Association for Computer Aided Design in Architecture (ACADIA) conference. New York. USA.
- 2009- 2011 Member in Education and research in Computer Aided Architectural Design in Europe organization (ECAADE).
- 2007 - 2011 OCEAN - Board member. OCEAN is trans-disciplinary international research network that conducts research by design in the intersection between architecture, urban and landscape design, industrial and product design, engineering, biology and musical composition (<http://www.ocean-designresearch.net/>).
- 2001- 2010 Member in the Israeli Association of United Architects.

Fellowships, Awards and Honors

1. Kolomiets, A.*, Sorkin, E., Tarazi, E. Grobman, Y.J. 3rd place in the GE-Arcam UGM Competition 2019 for the “Best Creative part” Design.
2. Honorable mentioned for excellence in teaching at the Technion (top 12%) for winter 2019 semester.
3. Jacobs Award for the Technion Best paper of 2018 (given to Guy Austern, a PhD candidate under my supervision for a paper I co-author, which presents his PhD research).

4. The Vanguard Award 2018 - Paul & Rodica Burg Fund (77,560 US\$). Technion.
5. Honorable mentioned for excellence in teaching at the Technion (top 12%) for winter 2018 semester.
6. First place in the 2017 AEC Excellence Awards in the sustainability category for the design of the Porter School for Environmental Studies building. Autodesk University. Las Vegas 12-16th November 2017.
7. Honorable mentioned for excellence in teaching at the Technion (top 12%) for winter 2017 semester.
8. International WAN Facade Award 2016 – Honorable mention for the Porter School of Environmental Studies Design.
9. First prize in the 2014 annual award by the Israel Builders Association for the best public building of 2014 (Porter School of Environmental Studies).
10. Technion's distinguish lecturer award (top 4%) for winter 2014 semester.
11. Best project award in the Ecologic Public buildings category for the design of the Porter School of Environmental Studies. Bait Vanoy. 25/11/2013.
12. Distinguished paper award in ICoRD 13 International Conference on Research into Design. 2013
13. Israel Design Award. Honorable Mentioned for the design of "Five Moments" exhibition in Tel Aviv Museum of Art. 2013
14. Ladislav & Vilma Segoe Academic Lectureship, Technion. 2010.
15. American Institute of Architects (AIA) Los Angeles Merit award for excellence in architectural design for the design of the Spitzer-Salant School of Social Work and the Deichman Center for Social Interaction at Ben-Gurion University of the Negev, Israel.
16. Third place in the AI Best Architectural Project of the Year 2009 competition.
17. World Architecture Community Award for the Eco Wall building (Porter School of Environmental Studies). 9/2009.
18. Scholarship granted by the Azrieli Foundation for Advanced Studies for post-doctoral studies at Harvard University Graduate School of Design. 2009.
19. Yuli Ofer Prize for Advancement of Architecture. First Prize. 2009.
20. World Architecture Community Award for the design of the Eco-Wall project (Porter School of environmental Studies). 2009.
21. Architecture Israel Best Architectural Project of the Year 2008/9
22. Academic Encouragement Award in the 3D VR Simulation Contest by UC-win/Road at "The 3rd International VR Symposium 11/2009, Tokyo, Japan
23. New England Fund Scholarship for post-doctoral studies at Harvard University Graduate School of Design. 2008.
24. Israel English Association Scholarship for master's studies in the Architectural Association School of Architecture. 2001.

Graduate students

Completed Thesis

PhD

1. **Guy Austern.** Year of graduation 2019. “Form Finding and Optimization for Digital Fabrication”. Principle supervisor Yasha J. Grobman. Co-supervisor Associate Prof. Guedi Capeluto.
2. **Arielle Blonder.** Year of graduation 2019. “The influence of computation on the use of composite materials in architecture”. Principle supervisor Yasha J. Grobman.
3. **Avishag Shemesh.** Year of graduation 2020. “The Effect of Space on Emotions – Exploring our Reaction to Different Geometries of Space”. Principle supervisor Yasha J. Grobman, Co-supervisor Professor Moshe Bar from Bar Ilan University.

Msc

4. **Polina Tener,** Year of graduation 2014. “Smart tile systems - Manufacturing surfaces based on tile systems without external joints”. Principle supervisor Yasha J. Grobman.
5. **Tanya Pankratov Yekutiel.** Year of Graduation 2016. “Parametric controlled responsive building envelopes”. Principle supervisor. Yasha J. Grobman.
6. **Hanna Levi.** Year of Graduation 2018. “Multipurpose Marine Infrastructure”. Principle supervisor Yasha J. Grobman.
7. **Anastasia A. Kolomiets,** Year of Graduation 2020. “Benefits of Titanium Powder Bed Additive Manufacturing for Industrial Design Development”. Principle supervisor Professor Ezri Tarazi (Faculty of Architecture and Town Planning), Co-supervisor Yasha J. Grobman.
8. **Cheli Hershovich,** Year of Graduation 2020. “Cellular building envelopes”. Principle supervisor Yasha J. Grobman.

ME

9. **Amit Dayan.** Year of Graduation 2017. “3D Visualizations as cognition enhancers for apartment customization”. Using BIM and virtual reality in apartment customization process. Principle supervisor Professor Rafael Sacks (Faculty of civil and Environmental Engineering, Technion). Co-supervisor Yasha J. Grobman.

Post Docs

10. **Nirit Philisof.** 2019-2020. Supervisor Yasha J. Grobman

In progress

PhD

11. **Michael Weizmann.** Starting year 2016 (move to a direct PhD track). “Topological Interlocking in Architectural Design and Fabrication”. Pre-candidacy exam. Principle

- supervisor Yasha J. Grobman, Co-supervisor - Dr. Oded Amir (Faculty of civil and Environmental Engineering, Technion). Expected year of graduation 2019.
12. **Noam Attias**, Starting year 2016. "Bio Composite Materials in Design: Developing Computer Aided Design and Fabrication Methods for Generating New Fungal Mycelium Based Products". Pre-candidacy exam. Principle supervisor Yasha J. Grobman, Co-supervisors – Professor Ezri Tarazi (Faculty of Architecture and Town Planning), Associate Professor: Ofer Danai, Northern R&D, MIGAL. Expected year of graduation 2020.
 13. **Hatzav Yoffee**, Starting year 2018. "Sustainable Urban Landscapes: Performance Evaluation Using Big-Data. Principle supervisor Yasha J. Grobman, Co-supervisors – Professor Pnina Plaut (Faculty of Architecture and Town Planning). Expected year of graduation 2021.
 14. **Stefanie Rückrich**, Starting year 2018. "Earthen and Fibrous Material for Use in Architecture, Possibilities of Machine-made and Computer-aided Design. Principle supervisor Yasha J. Grobman, Co-supervisors – Dr. Galit Agranati. Expected year of graduation 2021.

MSc

15. **Alex Gecht**, Starting year 2018. "Dynamic Extrusion Width in Pellet 3D Printing". Principle supervisor Professor Ezri Tarazi (Faculty of Architecture and Town Planning), Co-supervisor Yasha J. Grobman. Expected year of graduation 2020.
16. **Ryan Pourati**, Starting year 2019. "Architectural Scale Rotational Casting Methodology for Fabricating Lightweight High-Performance Hollow Concrete Building Elements". Principle supervisor Professor Aaron Sprecher (Faculty of Architecture and Town Planning), Co-supervisor Yasha J. Grobman. Expected year of graduation 2021.
17. **Maayan Fadida**, Starting year 2020. "COVID-19 transmission in public transportation and ways design can facilitate it". Principle supervisor Professor Yasha J. Grobman. Expected year of graduation 2021.

Research Grants

Sponsored

1. ECOlogical building enveLOPES: a game-changing design approach for regenerating urban ecosystems. In collaboration with TU Munich, University of Genua, TU Wien, Thomas Hauck – Studio animal aided design and MCneel Europe SL. **Horizon 2020 FET Open**. Proposal no. 964414. 2,999,383euro (637,000 euro for the Technion). In collaboration in the Technion with Prof. Assaf Shwartz and Arch. Shany Barath. 2020.
2. Pandemic and Elderly Housing Beyond Confinement, Isolation and Vulnerability: Reconsidering the Architecture of Aging Populations. In collaboration with Dr. Yael Allweil. **Israeli Ministry of Construction and Housing**. 386,282NIS (~112,000US\$). 2020
3. Bio composite materials in design: developing 3D printing methods for fungal mycelium-based materials. Principal investigator. **Israel Science Foundation (ISF)**. 600,000NIS (~169,000US\$). 2019
4. Superabsorbent bio nanocomposites from mycelium and nanocellulose. Collaborative partner/resource staff. In collaboration with; Dr. Tiffany Abitbol (PI); Dr. Jens

- Sommertune (resource staff); Dr. Anna Carlmark (resource staff) - RISE Research Institutes of Sweden; **Bo Rydin Foundation, Sweden**. 2MSEK (~220,000US\$). 2018
5. Residential buildings industrialization using 3D modular units – Architectural, engineering and construction aspects. Principal investigator together with Prof. Rachel Becker, Prof. Yehiel Rozenfeld and Dr. Gabi Raviv from the Faculty of Civil and Environmental Engineering, Technion. **Israeli Ministry of Construction and Housing**. 440,805NIS (~125,554US\$). 2017
 6. Developing building envelope cladding tiles based on complex geometry. Principal investigator. **Israeli Ministry of Construction and Housing**. 387,398NIS (~100,292US\$). 2015
 7. New strategy to the design of police stations in Israel. Israeli police. Principal investigator together with Dr. Dalit Sach Pinesly, 24,000NIS (~6,500US\$). 2014.
 8. Autonomous Movement of Kinetic Cladding Components in Building Facades. **Israel Science Foundation (ISF)**. 390,000NIS (~114,000US\$). 2014.

Significant Professional Architectural Projects

*These projects were published in international and local professional and daily publications – a list of selected publications is presented at the end of this document.

Public Buildings (built)

- 2008 – 2014 Porter School of Environmental Studies. 2000 sq. m. Design principal in collaboration with architects Joseph Cory and Nir Chen. Israel.
- 2007- 2014 Mevohot Yam High School. 7000 sq. m. Design principal in collaboration with Nir Chen Architects. Hefer Municipality. Israel.
- 2004-2007 Spitzer-Salant School of Social Work, Ben-Gurion University of the Negev – 2000 sq. m. Built – in use from 2007. Axelrod Grobman Architects in collaboration with architect Raquel Vert. Israel.
- 2004-2006 The Deichman Center for Social Interaction. Ben-Gurion University of the Negev -2200 sq. m. Built – in use from 2006. Design principal in collaboration with architect Raquel Vert. Israel.

Conceptual/case study research designs (unbuilt)

- 2009 Shader. Design research project for a new type of shading structure for the beach Tel-Aviv. Design principal.
- 2004 Israeli Pavilion for the Venice biennale Design competition - Israel Association of United Architects. Project. Design principal in collaboration with Eran Neuman, Gal Gaon, Tami Lapidot. Italy.
- 2003 Bussan International Competition. Project. Design principal in collaboration with Tomer Maymon and Tami Lapidot. South Korea.

Urban plans

- 2008 – 2013 Carmel Market urban plan (approved). Development of an urban plan for the renovation of Tel Aviv's main market for the municipality of the city of Tel Aviv. 75 dunam. A new approach to urban design process that involves the participation of the community in the design from day one. Design principal. Israel.

Interior design (built)

- 2011-2012 5 Moments exhibition exposition design. 450 sq. m. Design stage. Opening exhibition of the new architecture wing at the Herta and Paul Amir new building of Tel Aviv Museum of Art. Opening on October 2011. Design principal in collaboration with Arielle Blonder. Israel.
- 2008 Performalism exhibition design. 1200 sq. m. Built. Opened in September 2008. Design principal in collaboration with OSA Architects. Israel.

Publications

March Thesis

2001 Emergen-C Brand gallery. Examining the influence of hyper branding on architectural design. Case study - London Oxford street. Supervisor: Professor Brett Steele - Current director of the Architectural Association School of Architecture, London.

PhD Thesis

2008 Building the Digital World – Architectural Design Methods Based on the Use of Digital Tools – Performance Based Form Generation and Optimization. Supervised by Assistant Professor Abraham Yeziro and Associate Professor Isaac Guedi Capeluto.

Refereed Journals – Published

(* students under my supervision)

1. **Grobman, Y.J.**, Yeziro A. and Capeluto I.G. “Computer-based Form-generation in Architectural Design – A Critical Review”. *International Journal of Architectural Computing (IJAC)*, 7(4): 535-553. 2009.
2. **Grobman, Y.J.**, Yeziro A. and Capeluto I.G. “Non-Linear Architectural Design Process”. *International Journal of Architectural Computing (IJAC)*, 8(1): 41-53. 2010.
3. **Grobman, Y.J.**, Amster, E. "Implications of Green Buildings and Climate Change on Human Health in Israel". *Geography Research Forum (GRF)* 31: 70-82. 2011.
4. **Grobman, Y.J.** "New Directions in Agent-Based Generative Architectural Design". *Parc – Research in Architecture and Design*. 12(7): 1-21. 2011.
5. **Grobman, Y.J.** Kozlovsky, R. Wave Park: A Techno-biological Model for developing the Israel Shorelines. In *Ecology & Environment*, 5(1): 86-88. 2014.
6. **Grobman, Y.J.**, Elimelech, Y. Microclimate on building envelopes: testing geometry manipulations as an approach for increasing building envelopes' thermal performance. *Architectural Science Review*, 59:4, 269-278. 2015 DOI: 10.1080/00038628.2015.1025688
7. *Blonder, A. **Grobman, Y.J.** Design and fabrication with fiber-reinforced polymers in architecture: a case for complex geometry. *Architectural Science Review*, 59:4, 257-268. 2015 DOI: 10.1080/00038628.2015.1020479
8. **Grobman, Y.J.**, Empirical Methods for Measuring and evaluating Architectural Space. *Horizons in Geography*, 89: 150-162. 2016

9. *Weizmann, M., Amir, O. **Grobman, Y.J.** Topological Interlocking in Buildings: A Case for The Design and Construction of Floors. *Automation in Construction*. 72, Part 1: 18–25. 2016. DOI:10.1016/j.autcon.2016.05.014.
10. Kozlobsky R., **Grobman, Y.J.** The Blue Garden: Coastal Infrastructure as Ecologically Enhanced Wave-Scapes. *Landscape Research*. 42 (5): 439-454. 2016. DOI: 10.1080/01426397.2016.1260702
11. *Shemesh, A. Talmon, R. Karp, O. Amir, I. Bar, M. **Grobman, Y.J.** Affective Response to Architecture – Investigating Human Reaction to Spaces with Different Geometry. *Architectural Science Review*. 2: 116-125. 2016. DOI: 10.1080/00038628.2016.1266597
12. **Grobman, Y.J.** Capeluto, I.G. *Austern, G. External Shading in Office Buildings: Comparative Analysis of Daylighting Performance in Static and Kinetic Operation Scenarios. *Architectural Science Review*. Published online: 2: 126-136. 2016. DOI: 10.1080/00038628.2016.1266991
13. *Weizmann, M. Amir, O. **Grobman, Y.J.** Topological Interlocking in Architecture: A New Design Method and Computational Tool for Designing Building Elements. *Journal of Architectural Computing (IJAC)*. Published online 15(2) June. 2017. DOI: 10.1177/1478077117714913
14. **Grobman, Y.J.** Kozlobsky, R., *Levi, H. Multifunctional Computational Approach to Waterfront Design. *Architectural Science Review (ASR)*. Published online 60(6) October. 2017. DOI: 10.1080/00038628.2017.1383229
15. Van Hout, R. Rinsky, V. **Grobman, Y.J.**, Experimental Study of a Round Jet Impinging on a Flat Surface: Flow Field and Vortex Characteristics in the Wall Jet. *International Journal of Heat and Fluid Flow*. DOI: 10.1016/j.ijheatfluidflow.2018.01.010
16. *Austern, G. Capeluto, I.G, **Grobman, Y.J.**, Rationalization Methods in Computer Aided Fabrication: A Critical Review. *Automation in Construction journal*. 90, 281–293. 2018. DOI: 10.1016/j.autcon.2017.12.027. **Received the Technion Jacobs Award for the Best Paper of 2018.**
17. Van Hout, R. Rinsky, V. *Hershkovich, C., **Grobman, Y.J.**, Outer shear layer characteristics of a radially expanding wall jet on smooth and dimpled surfaces. *International Journal of Heat and Fluid Flow*. Volume 72, August 2018, 304-316. 2018. DOI: 10.1016/j.ijheatfluidflow.2018.06.011
18. Van Hout, R. Rinsky, V. Sasson N., *Hershkovich, C., Moshe Tshuva, **Grobman, Y.J.** Axisymmetric jet impingement on a dimpled surface: Effect of impingement location on flow field characteristics. *International Journal of Heat and Fluid Flow*. 17th September 2018.
19. *Attias, N. Danai, O., Tarazi, E. Pereman, I. **Grobman, Y. J.** Implementing bio-design tools to develop mycelium-based products. *The Design Journal*. 22(1) 1647-1657. 2019. DOI: 10.1080/14606925.2019.1594997
20. *Attias, N. Danai, O. Tarazi, E. Ezov, Pereman, I. **Grobman, Y. J.** Mycelium Bio-Composites in Industrial Design and Architecture: comparative review and analysis. *Journal of Cleaner Production*. Vol. 246. February 10th. 2020. DOI: 10.1016/j.jclepro.2019.119037
21. **Grobman, Y.J.** Capeluto, I.G, *Austern, G., Hatiel, Y. Evaluating the influence of varied external shading elements on internal daylight illuminances. *Buildings journal*. February 3rd, 2020. DOI: 10.3390/buildings10020022

22. *Kolomiets, A. **Grobman Y.J.** Popov, V. V. Jr. Strokin, E. Senchikhin, G. Tarazi, E. The Titanium 3D Printed Flute: new prospects of Additive Manufacturing for Musical Wind Instruments Design. *Journal of New Music*. September 28th. 2020. DOI: 10.1080/09298215.2020.1824240
23. * Attias, N. Reid, M. Mijowska, S.C. Dobryden, I. Isaksson, M. Pokroy, B. **Grobman, Y.J.** and Abitbol, T. Bio-fabrication of nanocellulose-mycelium hybrid materials. Accepted to *Advanced Sustainable Systems*. November 4th. 2020.

Refereed Books

24. **Grobman, Yasha. J.** Neuman, E. (Eds). *Performatism – Between Form, Function and Performance in Contemporary Architecture*". Routledge Press. The book is based on an exhibition and a catalogue that took place in Tel Aviv Museum of Art on 2008. ISBN 978-0-415-58361. 208 pages. 2011.
25. **Grobman, Yasha. J.** Blonder, A. (Eds). *Five Moments - Trajectories in the Architecture Design of the Tel Aviv Museum*. Tel Aviv Museum Press. ISBN 978-965-539-039-1. 256 pages (Hebrew & English). 2011.

Book Chapters

26. **Grobman, Yasha. J.** "Beyond the Program". In *A New Building Tel Aviv Museum of Art. The Herta and Paul Amir Architectural Competition*. Tel Aviv Museum of Art, cat. 3/2004. pp. 64-67. 2004.
27. **Grobman, Yasha J.** Ron. Ruth. *Turning Design on Its Head - Generative Use of Simulation Processes by Architects in the Early Stages of the Design Process*. Faculty of Architecture in the University of Florida Press. 2010.
28. **Grobman, Yasha. J.**, Sprecher Aaron. "Reflections on the Generation of the Exhibition Design". In *Performatism – Form and Performance in Digital Architecture*. Eds. Grobman, Yasha J. & Neuman, E. Tel Aviv Museum of Art, cat. 8/2008. pp. 34-39. 2008. Also published in *Performatism – Between Form, Function and Performance in Contemporary Architecture*". Routledge Press. 2011.
29. **Grobman, Yasha. J.** "The Various Dimensions of the Concept of "Performance" in Architecture". In *Performatism – Form and Performance in Digital Architecture*. Eds. Grobman, Yasha J. & Neuman, E. Tel Aviv Museum of Art, cat. 8/2008. pp. 13-17. 2008. Also published in *Performatism – Between Form, Function and Performance in Contemporary Architecture*". Routledge Press. 2011.
30. Neuman, E., **Grobman, Yasha. J.** "Performatism: A Manifesto for Architectural Performance". In *Performatism – Form and Performance in Digital Architecture*. Eds. Grobman, Yasha J. & Neuman E. Tel Aviv Museum of Art, cat. 8/2008. pp. 8-13. 2008. Also published in *Performatism – Between Form, Function and Performance in Contemporary Architecture*". Routledge Press. 2011.
31. **Grobman, Yasha. J.** Blonder, A. The nonlinear history of the Tel-Aviv museum's architecture. In *Five Moments - Trajectories in the Architecture Design of the Tel Aviv Museum*. Grobman, Yasha. J., Blonder, A. Eds. Tel Aviv Museum Press. 2011.

32. **Grobman, Yasha. J.** “Soft[ware] boundaries - complex geometry in architectural design.” In *The Beauty of Japheth in the Tents of Shem: Studies in Honor of Mordechai Omer*, Eds. Taragan, H. Gal, N. Assaph – Studies in Art History, vols. 13-14, Tel-Aviv University. Pp 585-599. 2011.
33. **Grobman, Yasha. J.** “The Evolution of Biological Dimensions in Israeli Architecture”. In “LifeObject – Emerging Biology and Architecture book”. Eds. Bachelet, I. Bauer, B. Blonder, A. Eylat, Y. Lazarovitch, N. Israeli Pavilion for the 2016 Venice Architectural Biennale. Stern-Thal Pres. Montreal. Canada. Pp155-161. 2016.

Refereed Papers in Conference Proceedings

(* students under my supervision)

Abroad

34. **Grobman, Y. J. & Neuman, Eran.** “Computer-Oriented Design Methods in the Digital Design Studio”. *Future and Character of Architectural Education. International Conference on Architectural Education. Beijing.* (Fully refereed paper) China Architecture & Building Press. pp. 284-289. 2007.
35. **Grobman, Y.J., Yezioro A. and Capeluto I.G.** "Building Form-generation Based on Multiple Performance Envelopes". *PLEA, Towards Zero Energy Building, 25th International Conference on Passive and Low Energy Architecture. Dublin. Ireland. 22nd-24th October. 2008.*
36. **Grobman, Y.J. and Ron, R.** Digital Form Finding: Generative use of simulation processes by architects in the early stages of the design process. *RESPECTING FRAGILE PLACES [29th eCAADe Conference], University of Ljubljana, Faculty of Architecture (Slovenia) 21-24 September 2011, pp.107-115. (Fully refereed paper). 2011.*
37. **Grobman, Y.J., *Pankratov Yekutieli, T.** 2013. “Autonomous Movement of Kinetic Cladding Components in Building Facades”. *ICoRD '13 International Conference on Research into Design. Indian Institute of Technology, Chennai, India. January 7-9, 2013. Proceedings: Chakrabarti, A., Prakash, R.V. (Eds.), ICoRD'13, Lecture Notes in Mechanical Engineering. Springer India, pp. 1051–1061. Chosen as one of the most distinguished papers in the conference (out of about 200 submitted papers. Fully refereed abstract and paper). 2013.*
38. *Tener, P.K., **Grobman, Y.J.** “Smart Tiles systems - Spatial Structures Based on Tile Systems without External Joints”. *Proceedings of the 19th International Conference on Engineering Design (ICED13), Design for Harmonies, Vol.9: Design Methods and Tools, Seoul, Korea. 19-22. August 2013 (Fully refereed paper). 2013.*
39. **Grobman, Y.J.** Cellular Building Envelopes. *ICoRD '13 International Conference on Research into Design. Indian Institute of Technology, Chennai, India. January 7-9, 2013 Proceedings: Chakrabarti, A., Prakash, R.V. (Eds.), ICoRD'13, Lecture Notes in Mechanical Engineering. Springer India, pp. 951–963. (Fully refereed abstract and paper). 2013.*
40. **Grobman, Y.J.** Teaching architectural design in the 21st century - form, performance and function. *Architectural education in the 21st century. School of Architecture, Southeast University, Nanjing, China. 15-16,6,2013.*

41. **Grobman, Y.J.** Kozlovsky, R. On the Shores of Architecture - Computational Fluid Dynamics. In Architectural Design. Rethinking Comprehensive Design: Speculative Counterculture, Proceedings of the 19th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2014) / Kyoto 14-16 May 2014, pp. 853–862 (Fully refereed abstract and paper). 2014
42. *Pankratov Yekutieli, T. **Grobman, Y.J.** Controlling Kinetic Cladding Components in Building Facades – A Case for Autonomous Movement. Rethinking Comprehensive Design: Speculative Counterculture, Proceedings of the 19th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2014) / Kyoto 14-16 May 2014, pp. 129–138. (Fully refereed abstract and paper). 2014.
43. *Ben-Alon, L. Sacks, R. **Grobman, Y.J.** Similarities and differences between humans' and social insects' building processes and building behaviors. Construction Research Congress (CRC). Georgia Institute of Technology, Atlanta, GA, USA. Pp. 51-60. (Fully refereed abstract and paper). 2014.
44. *Shemesh, A. Bar, M. **Grobman, Y.J.** Space and Human Perception – Exploring Our Reaction to Different Geometries of Spaces. In Y. Ikeda, C. M. Herr, D. Holzer, S. Kaijima, M. J. Kim. M, A, Schnabel (eds.), Emerging Experience in Past, Present and Future of Digital Architecture, Proceedings of the 20th International Conference of the Association for Computer-Aided Architectural Design Research in Asia CAADRIA 2015, 8-23 May 2015, Kyungpook National University, Daegu, Korea. Pp. 541–550. (Fully refereed abstract and paper). 2015
45. *Weizmann, M., Amir, O. **Grobman, Y.J.** Topological interlocking in architectural design. In Y. Ikeda, C. M. Herr, D. Holzer, S. Kaijima, M. J. Kim. M, A, Schnabel (eds.), Emerging Experience in Past, Present and Future of Digital Architecture, Proceedings of the 20th International Conference of the Association for Computer-Aided Architectural Design Research in Asia CAADRIA 2015, 8-23 May 2015, Kyungpook National University, Daegu, Korea. Pp. 107–116. (Fully refereed abstract and paper). 2015
46. *Blonder, A., **Grobman, Y.J.**, Alternative Fabrication Process for Free-Form FRP Architectural Elements Relying on Fabric Materiality Towards Freedom from Molds and Surface Articulation. The next city - New technologies and the future of the built environment [16th International Conference CAAD Futures 201. Sao Paulo, Brazil, July 8-10, 2015, pp. 397-410. (Fully refereed abstract and paper). 2015.
47. *Blonder, A., **Grobman, Y.J.** “Natural Complexity: Embedded Fabric Materiality in Fibre-Reinforced Polymer Fabrication”. Complexity and Simplicity, the 34th eCAADe annual Conference. Oulu School of Architecture. Finland. August 2016. Pp 581-589. (Fully refereed abstract and paper). 2016
48. *Blonder, A., **Grobman, Y.J.** “Crafted variation in FRP: Resilience by fabric materiality”. Spatial Structures in the 21st Century, the IASS 2016 Annual International Symposium. The University of Tokyo, Japan. September 2016. (Fully refereed paper). 2016
49. *Hershkovich, C. Van Hout, R. Rinsky, V. Laufer, M. **Grobman Y. J.** “Microclimate on building envelopes: wind tunnel and computational fluid dynamic analysis of basic and complex geometries”. SimAUD 2017 conference proceedings. May 22-24, 2017. Toronto. Canada.
50. *Attias, N. Danai, O. Tarazi, E. **Grobman, Y. J.** “Developing novel applications of mycelium based bio-composite materials for architecture and design”. Building with bio-

- based materials: Best practice and performance specification. September 6th-7th. Zagreb, Croatia. 2017
51. *Austern, G. Capeluto, I.G, **Grobman, Y.J.**, Evaluating the Buildability of Architectural Geometries: Embedding fabrication awareness into the design of concrete elements. Accepted to publication in the International Conference on Architecture and Civil Engineering proceedings (ACE). May 14-15th. Singapore. 2018. DOI: 10.5176/2301-394X_ACE18.38
 52. *Blonder, A., **Grobman, Y. J.**, Latteur, P., Pleated Facades: Layered Fabric Materiality in FRP Surface Elements. Accepted to the International Association for Shell and Spatial Structures (IASS 2018) Annual International Symposium, MIT. July 16-20th. Boston 2018.
 53. *Austern, G. Capeluto, I.G, **Grobman, Y.J.**, Fabrication Aware Design: A method for rationalizing concrete façade elements. In Kepczynska-Walczak, A, Bialkowski, S (eds.), Computing for a better tomorrow - Proceedings of the 36th eCAADe Conference - Volume 1, Lodz University of Technology, 19-21 September 2018, pp. 727-734, Lodz, Poland. 2018.
 54. *Austern, G. Capeluto, I.G, **Grobman, Y.J.**, Adapting architectural form to digital fabrication constraints. In Hesselgren, L., Killian, A., Malek, S., Olsson, K.G., Sorkine-Hornung, O., Williams, C., Eds. Proceedings of the international conference on Advances in Architectural Geometry (AAG). September 24-25th. Chalmers University of Technology in Gothenburg, Sweden. Pp. 10-29. 2018.
 55. *Austern, G. Capeluto, I.G, **Grobman, Y.J.**, Fabrication aware design of concrete façade panels to Re/calibration: on imprecision and infidelity. ACADIA Conference. 18-20th October. Universidad Iberoamericana. Mexico City 2018.
 56. *Weizmann, M., Amir, O. **Grobman, Y.J.** “Structural Performance of Semi-regular Topological Interlocking Assemblies”. SimAUD conference. 7-9th April. School of Architecture, Georgia Tech. USA. 2019.
 57. *Hershkovich, C. Van Hout, R. Rinsky, V. Laufer, M. **Grobman Y. J.** “Insulating with Geometry: Employing Cellular Geometry to Increase the Thermal Performance of Building Facades”. CAADRIA 2020 conference proceedings. August 5-6th, 2020. Bangkok. Thailand.
 58. *Geht, A. *Weizmann, M. **Grobman Y. J.** Tarazi, E. “Horizontal Forming in 3D Printing: Design and Architecture Perspective.”. CAADRIA 2020 conference proceedings. August 5-6th, 2020. Bangkok. Thailand.
 59. *Yoffe, H. Fried, S. Plaut, P. **Grobman Y. J.** “Enriching the Parametric Vocabulary of Urban Landscape Environments: A Framework for Computer-Aided Performance Evaluation of Sustainable Development Design Models.”. ECAADE 2020 conference proceedings. September 16-7th, 2020.

In Israel

60. **Grobman, Y. J.** “Virtual Museum”. Proceedings of the Israeli Museum Studies, conference. The Genia Schreiber University Art Gallery, Tel Aviv University. May 2003 (in Hebrew), pp. 39-45. 2003.

61. **Grobman, Y.J.**, “Architecture as an Expertise – A Shift from Modes of Representation to Modes of Simulation”. Expertise - Media Specificity and Interdisciplinary conference. Tel Aviv University (Fully refereed abstract and paper, proceeding includes only abstracts). 2009.
62. **Grobman, Y.J.** and Emster, E. “Effect of Green Buildings on Health in Israel”. Haifa University. (Fully refereed abstract). 2011.
63. **Grobman, Y.J.** “The impact of computation on architecture – the local and global dimensions”. Review Preview: The Arts in Israel in the 21st Century. The Israel Museum, Jerusalem, Israel. (in Hebrew) 18-19 December 2012.

Papers in Professional Journals and Other Publications

1. **Grobman, Y. J.** “The Digital Era in Architecture – Revolution or Evolution”. Israeli Architecture (AI). 63/2005 (in Hebrew and English), pp. 78-81. 2005.
2. **Grobman, Y. J.** “Archi-type & Archi-code”. 7/2006. Text for the Gen[h]ome workshop in Tel Aviv University. Published in T_CODE website - <http://tx.technion.ac.il/~tcode/>. 2006.
3. **Grobman, Y. J.** “Performance” XXI magazine, Turkey. 10/2008. Pp 54-56. (In Turkish). 2008.
4. Ferdman, A and **Grobman, Y.J.** “It is Not Just Jerusalem” Il Giornale Dell Architecture. Anno 7. N. 61. April 2008. (In Italian). 2008.
5. **Grobman, Y. J.** “Tomatoes Do Not Grow in Supermarkets”. In Fields of Tomorrow, Hagit Knafo klimor and Daviv Knafo. Eds. 2016. ISBN 978-965-91315-1-8

Patents

(* students under my supervision)

1. *Pourati, R., Larianovsky, P., Ben Tur, A., **Grobman, Y. J.**, Yizhar, D., Robins, D.S., Shaked, T. Perelshtein, Y., Andrea, T. Weissman, A., Masri, B., Eilat, I., Eilat,Z., Thin Shaped Structural Elements and Novel Method of Making Same. Provisional patent. 2018. USP Application No: 62716413
2. *Austern G., **Grobman Y.J.**, Capeluto I.G., Elber G., Real Time Evaluation Method for the Fabrication Resources of Complex Geometry Molds, 2018. Provisional Patent, EFS ID: 33471961, Application Number: 62719676
3. *Attias, N. Abitbol, T. **Grobman, Y.J.** Bio-fabrication of nanocellulose-mycelium. 9/2020. Provisional Patent, Application Number: 63076490

Scientific Reports

1. **Grobman, Y. J.**, Blonder, A. Green Retrofit – invited report for the municipality of Jerusalem. 2.2011 (In Hebrew).
2. **Grobman, Y. J.**, Shach-Pinsly, D. Police stations design - Invited report for the Israeli Police. 5.2015 (In Hebrew).

3. **Grobman, Y. J.**, Kozlovsky, R. Wave Park – Invited report for the Tel – Aviv Municipality that examines the potential of creating a new type of waterfront. 7.2015 (In Hebrew).
4. **Grobman, Y. J.**, *Hershkovich, C., Balsan, A., *Blonder, A., *Austern, G., *Weizmann, M., Perlstein, Y., – Developing building envelope cladding tiles based on complex geometry – final report for grant #2022402. Submitted to the Israeli Ministry of Construction and Housing. 6.2018 (In Hebrew).
5. Becker, R., **Grobman, Y. J.**, Rozenfeld, Y., Raviv, G., Chen, N., Leviathan, I., Maayan, A., Tavor, M., Trajtenberg, G., Residential buildings industrialization using 3D modular units – Architectural, engineering and construction aspects. Final report for grant # 2025217. Israeli Ministry of Construction and Housing. 9. 2019 (In Hebrew).

Win in Architectural Design Competitions

Abroad

1. Bussan International Competition. Honorary mention in an International open competition. Principal designer in collaboration with Tomer Maymon and Tami Lapidot. Jury chaired by Swiss Architect Mario Botta. 2003.
2. BMW Plant Central Building design competition. Leipzig, Germany - First prize in an invited competition as a member of the competition design team in Zaha Hadid Architects, London. 2002.

In Israel

3. Finalist in an open design competition - Israeli Pavilion for the Expo 2015 international exhibition. Finalist. Principal designer in collaboration with Yonatan Cohen and Davide Schumann. 2013
4. Forum TLV. Finalist in an Invited competition by the Tel-Aviv municipality for a new type of exhibition building. 6000sqm. Principal designer in collaboration with Nir Chen. 2012.
5. Porter School of Environmental Studies design competition. First prize in an open international competition for the design of the Porter School of Environmental Studies. Principal designer in collaboration with architects Joseph Cory and Nir Chen. Israel. 2008.
6. Hefer High school design competition. First prize in an invited competition. Grobman Architects in collaboration with Nir Chen. 2004.
7. Israeli Pavilion Design competition - Israel Association of United Architects. First prize in an invited competition. Principal designer in collaboration with Eran Neuman, Gal Gaon, Tami Lapidot. 2004.

Invited Participation in Architectural Exhibitions

Abroad

1. Design Computing 2018. Faculty of Architecture, Czech Technical University of Prague. Department of Architectural Modelling. 11-17/10/2018. Prague. Czech Republic. 2018

2. 2014 KIYFE invited International Exhibition. Munjeong-dong Raemian Gallery. Opening 20.11.2014. Seoul South Korea. 2014.
3. Boston Architecture College (BAC) Gallery. Change Order - The Futures of Design Learning. 11/2010-01/2011. Boston. USA. 2011.
4. DRL TEN. Architectural Association, London. Presentation of an entry to the DRL TEN design competition. London. UK. 2008.
5. OCEAN - Conception Performative. Fonds Régional d'Art Contemporain du Centre (FRAC Participation as Ocean member). Orleans, France. 2-6/2007
6. ARCHILAB. Brand Gallery. Emergen-C Project. Fonds Régional d'Art Contemporain du Centre (FRAC), Orleans, France. 2002.

In Israel

7. Cover Version – Israeli Icons Printed in 3D. With Ezri Tarazi and Michael Weizmann. Rishon Le Zion Museum. Curator Dana Arieli. 3/2019
8. The Human Parameter. ZeZeZe Gallery. Tel-Aviv. 7/ 2015.
9. Green Rifts. Porter School of Environmental Studies building. ZeZeZe Architectural Gallery. 11/2014.
10. Green Thoughts - Sustainable Space in Israel 2014. Israel Association of United Architects Gallery. Curator: Haidi Arad. Opening 10/4/2014
11. Sketchbooks - Sketch and drawing books by Israeli Architects. ZeZeZe gallery. Israel 1/2014.
12. AI - Project of the Year exhibition – The Porter School of Environmental Studies. ZeZeZe gallery. Israel 11/2010.
13. AI - Project of the Year exhibition. ZeZeZe gallery. Israel 6/2009.
14. ZeZeZe gallery. Israel. Geotectura exhibition. Presenting a design for a pavilion. Design collaboration with Geotectura. 2008.
15. Soft[ware] Boundaries. Israel Association of United Architects Gallery. Brand Gallery. Emergen-C Project. 2003.

Conferences - Keynote speaker

1. 3rd Architecture & Environment Symposium – keynote speaker. Architecture and Design Department. University of Genoa. 16th-17th September 2019.
2. Teaching architectural design in the 21st century - form, performance and function. Keynote speaker in conference on architectural education in the School of Architecture, Southeast University, Nanjing, China. 15-16th June 2013.
3. Methodologies and Tools for Design Management. Ar.Tec Conference - keynote speaker. Sapienza University of Rome. February 2011.

Invited Special Lectures in Architectural Schools and Faculties

Abroad

1. Between the How and The How much in Architectural Design. Waterloo University School of Architecture. November 19th, 2015. Lecture's online video: https://youtu.be/wYMZ3NzJQwA?list=PLS2zUtsjeelSXJY6eMyyZy9HRmL_PbmwS
2. Performalism: Challenges in the Design of High-Performance Green Buildings. The 7th National Architecture Symposium. Architecture Network (ARCHINET). College of Architecture. University of Santo Tomas. Royal and Pontifical Catholic University of the Philippines. March 21, 2015.
3. Performalism - Parametric Trajectories in Performance-based Architectural Design. March architectural school. Moscow. Dec 10. 2013 (<http://ncca.ru/en/events.text?filial=2&id=1131>).
4. "Performalism – performative dimensions in digital sustainable architectural design" – University of Florida School of Architecture. USA. 3/2009
5. "Performative dimensions in sustainable architectural design" – South Illinois University Carbondale, College of Applied Sciences & Arts, School of Architecture. USA. 4/2009
6. "Performalism - form and performance in contemporary architecture" – University of Florida School of Architecture. USA. 9/2009
7. "Generative architectural design" – Northeastern University Faculty of Architecture. USA. 10/2009
8. "From CAD to CAM". Xi'an University of architecture & Technology. Faculty of Architecture. Xi'an, China. 11/2006.
9. "Generative Architecture". ETH. Faculty of Architecture. Switzerland. 5/2006.
10. "From CAD to CAM". Central Academy of Fine Arts (CAFA), Beijing, China. 12/2006.

In Israel

11. From Design to Form Finding. Ariel University Center of Samaria, Department of Architecture. Israel, 5/2011.
12. From Design to Form Finding. Bezalel, Academy of art and Design. Architectural practice lecture series. Israel, 12/2010.
13. "Digital Design and Manufacturing" School of Architecture, Tel Aviv University. 3/2004.

Presentations (giving papers in conferences)

Abroad

- 2019 Microclimate on building facades. AE4 Conference. TU Wein. Germany. Dec 18-19th 2019.
- 2019 Scientific Research in Architecture – New modes of Simulation in the Architectural Design Process. Bauhaus 100 - What Now? Conference. Anhalt University. Germany. Dec 12-14th 2019.
- 2019 A shift from modes of representation to modes of simulation in the arch design process. DR_SoM "Digital Practice" Conference. TU Graz. Austria. Oct 24-26th 2019.

- 2015 Alternative Fabrication Process for Free-Form FRP Architectural Elements Relying on Fabric Materiality Towards Freedom from Molds and Surface Articulation. CaadFutures 2015 conference. Sao Paulo, Brazil. July 8-10, 2015.
- 2015 1) Topological Interlocking in Architecture 2) Space and Human Perception- Exploring Our Reaction to Different Geometries of Spaces. 20th International Conference of the Association of Computer-Aided Architectural Design Research in Asia CAADRIA 27. Daegu, South Korea. May 17-20th, 2015.
- 2014 1) On the Shores of Architecture - Computational Fluid Dynamics in Architectural Design. 2) Controlling Kinetic Cladding Components in Building Facades – A Case For Autonomous Movement. 19th International Conference of the Association of Computer-Aided Architectural Design Research in Asia CAADRIA. Kyoto. Japan. May 14th. 2014.
- 2013 1) Cellular Building Envelopes. 2) Autonomous Movement of Kinetic Cladding Components in Building Facades. ICoRD '13 International Conference on Research into Design. Indian Institute of Technology, Chennai, India. January 7-9, 2013.
- 2012 Performalism - trajectories in performance-based design. At Spatial Cognition and Architectural Design - Designing from the Inside Out Workshop at the SCAD-Case Bremen 2012, Bremen University. Germany. July 12 & 13, 2012.
- 2011 Digital Form Finding: Generative use of simulation processes by architects in the early stages of the design process. 29th eCAADe Conference], University of Ljubljana, Faculty of Architecture (Slovenia). 2011.
- 2007 “Computer-Oriented Design Methods in the Digital Design Studio”. Future and Character of Architectural Education. International Conference on Architectural Education. Beijing. 2007.

In Israel

- 2015 Wave Park. In “The PROCESS: Haifa Port – Clarifying Choices for Future Harbor and Waterfront Development”. Technion, Haifa. March 11-12, 2015.
- 2014 Cellular buildings studio. 2014 ILGBC Green Building conference. Tel-Aviv. Sep. 9th. 2014.
- 2013 The Porter LEED Platinum Green Building. In the Second Annual Conference of the Israel Green Building Council. 2.9.2013. Tel Aviv University. Tel Aviv. 2013.
- 2012 Fresh Blood Symposium. Performance Based Design of Complex Geometry. Innovative Advances for Biomedical Sciences. Technion, Haifa. December 25th, 2012.
- 2011 Effects of Green Buildings on Health in Israel. Healthy Building Syndrome Conference. The College of Management Academic Studies, Rishon LeZion. May 2011.
- 2011 Effect of Green Buildings on Health in Israel. Haifa University. Haifa. February 2011.
- 2010 Turning Design on Its Head – Performalism in Design and Manufacturing. Fabrication: New Technologies in Digital Architecture. Tel-Aviv University, Azrieli School of Architecture. Tel Aviv. June 2010.
- 2010 Green retrofitting. Green Jerusalem Conference. Jerusalem, December 2010.

- 2009 Performance-Oriented Sustainable Design - The case study of the Porter School of Environmental Studies, Tel-Aviv University. The Jerusalem Seminar in Architecture - Green Design: from Theory to Practice. Jerusalem. January 2009.
- 2009 Architecture as an Expertise – A Shift from Modes of Representation to Modes of Simulation. Expertise - Media Specificity and Interdisciplinary conference. Tel Aviv University. 2009.
- 2008 Performance and Computer-Generated Form. Seminar, Tel Aviv University, The Azrieli School of Architecture. Tel Aviv. June 2008.
- 2008 “The Computer as a Design Tool” in Israel association of United Architects annual conference – Architectural Education. Tel Aviv. March 2008.
- 2007 “Performance Based Form-Generation in Architectural Design - Using Performance Envelopes in a Generative Computer-Oriented Design Method“ in “Building the Digital World – Formal Complexity, Performance and the Use of Computer Code in the Design and Manufacturing of Computer-Oriented Design”. Workshop. Technion, Israel Institute of Technology. Faculty of Architecture and Town planning. November 2007.
- 2007 “Beyond Form - Performance Aspects of Digital Architecture “. OMNIDESK 2007 annual conference. Tel Aviv. November 2007.
- 2006 “Notes on Typologies of Computer-Generated Form” – plenary lecture at FORM-D4. Workshop. Technion, Israel Institute of Technology. Faculty of Architecture and Town Planning. Haifa. May. 2006.
- 2003 “The Virtual Museum and Brand Gallery“ - Israeli Museum Studies. Workshop, Tel Aviv University. May 2003.

Invited Public Lectures

Abroad

- 2019 “the Technion Connected World 'Man in the heart of a new e-Environment”. A lecture to the Technion France Organization. December 11, 2019, France. 2019
- 2019 “From Bauhaus to the startup nation - The avant-garde of Israeli architectural design. An invited lecture in the 27 International Architectural Festival. Russian Architect Association. October 17-19th. Moscow.
- 2016 “21st Century Architecture - New Technologies in Architectural Design and Research”. A lecture to the Technion Canada organization. May 1st. Montreal, Canada. 2016
- 2016 “Architecture and Technology - New Ideas in Architectural Design and Fabrication Research”. A lecture to the Technion Canada organization. March. 9th. Toronto. Canada. 2016
- 2015 “Beyond the architectural form: The implications of the new technologies in architectural design and fabrication. A lecture to the Technion Canada organization. Nov. 22th. Montreal. Canada. 2015
- 2013 “Performatism - Form and Performance in Contemporary Digital Architecture”. The National center for Contemporary Arts, Moscow (NCCA). Dec 11. 2013

In Israel

- 2019 Round table discussion with Naama Riba in “Real Estate City” event. Haifa. 24th September. 2019.
- 2019 Round table discussion with the heads of the architectural schools/faculties. In the Architecture festival by the Israeli Architect Association. Tel Aviv. June 4th. 2019.
- 2017 “Hi-Tech in architectural design and research”. Amdocs AR/VR Launchpad – from idea to storyboard. Raanana. September 14th. 2017.
- 2017 Architecture and computation – the various dimensions of using computer code in the architectural design process. Computer Science Faculty at the Technion Excellence Ceremony. Haifa. July 3rd. 2017
- 2017 “Paradigm shifts in architecture in the 21st century” – The Human Parameter Lecture Series. ZeZeZe gallery. Tel-Aviv. March 2017.
- 2014 “Performance based design – new directions in the design simulation and fabrication of architectural form”. The Real Estate City conference. Eilat. November 20th. 2014.
- 2014 “Changes in The Visualization of The Architectural Objects”. Visualization, and artificial environments conference. Isrotel, Ein Bokek. November 11th. 2014.
- 2014 “Advance Applications of Computer Based Design and Fabrication in Architectural Research and Practice”. Material and Technology conference, Domus Israel. Tel Aviv. September 18th. 2014.
- 2013 “The built environment – creativity and sustainability”. At MASHAV - Israel's Agency for International Development Cooperation. Haifa. February 2013.
- 2013 “Green until the roof” – on the design of the LEED platinum Porter School of Environmental studies. ZeZeZe gallery. Tel-Aviv. February 2013.
- 2013 “New technologies in architecture”. A lecture to Kiryat Ono high school students. Haifa. January 2013.
- 2012 “The Impact of the Digital Revolution on Architecture – The Local Context” in Creative Arts in Israel in the 21st Century Review and Preview conference, Jerusalem Museum. Jerusalem. December 2012.
- 2008 “Performatism – performance in contemporary architecture” – Archijob seminar. Tel-Aviv. September 2008.
- 2007 “The Computer as a Design Tool - A Critical Analysis of Advanced Form-Creating Uses of the Computer in Digital Architecture“. Upgrade Tel-Aviv Jerusalem. Jerusalem. August 2007.
- 2007 “The Computer as a Design Tool”. ZeZeZe Architecture Gallery Guest Lecture Series. Tel-Aviv. June 2007.
- 2007 Invited guest talk and participation in a panel discussion on “Sketches by Frank Gehry” film. In” Documenta” series, Israel Cinemateque. Tel-Aviv. January 2007.
- 2006 “Architecture in the Computer Era – Optimization Simulation and Generation of the “Architectural Form”. Kalisher Symposium. Tel-Aviv. May 2006.
- 2005 “Between Technology Form and Future Architectural Design”. Israeli Architect Convention. December 2005.
- 2005 “Computer-Oriented Form-Generation and Computer Aided Manufacturing”. Digital Forum. Tel Aviv University. Tel Aviv. July 2005.

- 2004 “Digital Architecture and the IT Revolution “Humanlike, Interdisciplinary Forum. Camera Obscura College. Tel Aviv. May 2004.

Conferences – organization

Abroad

- 2019 AE4. Architecture and Environment Symposium No.4. TU Vienna – 18th-19th December 2019 (together with Prof. Michael Hensel).

In Israel

- 2020 Invited steering committee member, 2020 Festival of Israeli Architecture – FIA. The Israel Association of Architects & Urban Planners.
- 2018 Israel BIM Symposium: The Building Information Revolution: Challenges and Innovations in Design, Simulation, Fabrication and Construction with BIM. Keynote speakers: Chuck Eastman, Georgia Tech. Philip Block, ETH. Filippo Innocenti, Zaha-Hadid. In collaboration with Prof. Rafael Sacks from the Faculty of Civil and Environmental Engineering at the Technion. February 2018.
- 2015 “forMAT - Computation, Materiality and Fabrication in Architecture”. International Symposium. In collaboration with Prof. Rivka Oxman. Technion, Israel Institute of Technology. Faculty of Architecture and Town Planning. May 2015.
- 2015 “The PROCESS: Haifa Port – Clarifying Choices for Future Harbor and Waterfront Development”. In collaboration with Prof. George Thrush, Head of the Architecture School at Northeastern University, Boston, Massachusetts. March 11-12th, 2015.
- 2009 “ARCH+20 - Architectural Education - The Next 20 Years”. International workshop on the future of architectural education. Initiation and Organization together with Prof. Gabriela Goldschmidt. December 2009. Technion, Israel Institute of Technology. Faculty of Architecture and Town Planning. 2009.
- 2007 “Building the Digital World – Formal Complexity, Performance and the Use of Computer Code in the Design and Manufacturing of Computer-Oriented Design”. Workshop. November 2007. Technion, Israel Institute of Technology. Faculty of Architecture and Town planning. 2007.
- 2007 Architecture and Phenomenology. International conference. 2007. Organizing committee. Technion, Israel Institute of technology. Faculty of Architecture and Town planning. (<http://arcphen.technion.ac.il/>). 2007.
- 2006 Form_D4 – Digital typologies. 2006. Workshop. Scientific and Organization committee. Technion, Israel Institute of technology. Faculty of Architecture and Town planning. 2006.
- 2005 Form_D3 – Beyond Morphogenesis, Developments in Digital Design. 2005. Workshop. Scientific and Organization committee. Technion - Israel Institute of technology. Faculty of Architecture and Town planning. 2005.

SPECIAL PROFESSIONAL ACTIVITIES

Role as a session chair in conferences

Abroad

- 2018 ACE 2018. Session chair. Singapore. Brazil. May 12th-15th. 2018.
 2015 CAAD Futures 2015. Session chair. San Paulo. Brazil. July 6th-10th. 2015.

In Israel

- 2015 “The PROCESS: Haifa Port - Clarifying Choices for Future Harbor and Waterfront Development. Technion Faculty of Architecture and Town Planning. Haifa. March 11-12th. 2015.
 2012 The international conference on the design of the 21st century hospital. Technion Faculty of Architecture and Town Planning. Haifa. 11th October 2012.
 2008 “Israeli Architectural Formalism” – session chair. Workshop. Tel Aviv University, The Azrieli School of Architecture. Tel Aviv. January 2008.
 2007 “Building the Digital World – Formal Complexity, Performance and the Use of Computer Code in the Design and Manufacturing of Computer-Oriented Design.” Workshop. November 2007. Technion, Israel Institute of Technology. Faculty of Architecture and Town Planning. Haifa. 2007.
 2006 Form_D4 – Digital typologies. 2006. Workshop co-chair together with Dr. Eran Neuman. Technion, Israel Institute of technology. Faculty of Architecture and Town Planning. Haifa. (<http://tx.technion.ac.il/~tcode/formd4.html>). 2006
 2005 Form_D3 – Beyond Morphogenesis, Developments in Digital Design. 2005. Workshop co-chair together with Dr. Eran Neuman. Technion, Israel Institute of technology. Faculty of Architecture and Town Planning. Haifa. (http://www.arch.technion.ac.il/formd/formd_files/frame.htm). 2005

Other Activities

Organization of Architectural Design Competitions

1. New Natural Gas Delivery Station Project – Ministry of Industry and Commerce. Grobman Architects. Organization of international design competition and member of the jury. 2004.
2. New Building for the Tel Aviv Museum of Art. Grobman Architects. Organization of international design competition and member of the jury. Winning projects design by Preston Scott Cohen. 2002-2003.

Selected Publication on me and my academic and professional work in professional books, journals and daily newspapers

Abroad

1. Arquine -” BrandGallery: Emerging Architects,” Autumn, No. 21. 2002 (In English).
2. World Architecture Review, Special Issue, The Architectural Association” Brand Gallery: Responsive Imagery,” Shenzhen University, Nos. 88/89. 2003 (In Chinese/English).
3. “Green Building Competition Winner“ by Maya Jordan. In DeZona. (<http://www.dezona.com>). 22.12.2008. (In English).

4. Performalism - A budding design movement asks: What does it mean for a building to perform? By Lance Hosey. In Architects the magazine of American institute of Architects. 24.5.2010. (In English)
3. Porter School of Environmental studies by Axelrod Grobman. In ArchiScene. November 9th. 2011 (Http://archiscene.net)
4. [Axelrod Grobman Architects: Porter School of Environmental Studies, Tel Aviv](#). In Designboom. 8.11.2011.
5. [In Progress: Porter School / Axelrod-Grobman Architects + NCArchitects + Geotectura](#). ArchDaily. June 15, 2013.
6. The Porter School of Environmental Studies. Archdaily. Aug. 11th. 2014.
7. The Porter School of Environmental Studies. Architizer. Aug. 22th. 2014.
8. 2014 International Architectural Exhibition for Youth Facility. Catalogue book. Korea Institute of Youth Facility & Environment. 31.1.2015. Pp 198-199. ISBN 978-89-966784-4-1.
9. [The Power of Place: 7 Projects from Tel Aviv](#). Architizer. June 29th. 2015.
10. [The Best of Modern Architects in Tel Aviv \(2015, 2016\)](#). The Culture trip. January 11th. 2016. (The porter building is selected as one of the five best modern building in Tel-Aviv 2015, 2016)
11. Topological Interlocking with Yasha Jacob Grobman (booklet). Department of Architecture, Inha University Press. South Korea. 2016
12. [Autodesk University 2017](#). AECbytes. November 30, 2017.
13. [Autodesk announces AEC Excellence Awards 2017/ Geospatial World](#). November 15th. 2017.
14. [The Best of BIM](#). Engineering.com. November 17, 2017.

In Israel

15. Grobman, Yasha. J. "Digital Architecture". Without Borders – Digital Art Magazine. No. 99 July. 2003 (In Hebrew).
16. "*The digital escape path*" By Ester Zandberg. In Haaretz newspaper. 29.5.2003 (In Hebrew).
17. Commerce House Competition. Israeli Architecture (AI). No. 5/2003 (In Hebrew).
18. "Blob Era". In Yediot Aachronot Weekend Supplement. 22.4.2005 (In Hebrew).
19. "Right click to close a balcony" By Ester Zandberg. In Haaretz newspaper. 17.9.2008 (In Hebrew).
20. "The Bellybutton of the form" By Ester Zandberg. In Haaretz newspaper. 21.8.2008 (In Hebrew).
21. "In search of 'personal' space" by Ziva Sternhell. In Haaretz international book supplement. 17.9.2008 (In English).
22. "The buildings that laugh at Azrieli towers" in Haaretz newspaper. 26.8.2008 (In Hebrew).
23. "My lover built my home" In Haaretz Weekend Supplement. 13.6.2008 (In Hebrew/English).

24. “Eco wall project” in Planet Building – Israeli portal for architecture design and construction. 11.2008. (<http://www.expositions.co.il/joseph%20cory/main.htm>). (In Hebrew).
25. “No construction is good construction” By Ester Zandberg. In Haaretz international book supplement. 11.12.2008 (in English).
26. “Project of the year award”. AI – Architecture of Israel Quarterly. Issue 02/2009. Issn-0792-1268. pp 10-15, 94 (in Hebrew).
27. “From Vision to Reality – Architecture at Ben-Guryon university of The Negev, 1990-2006”, Ed. Chyutin Architects. Ben-Guryon University Press. Pp 166-179. 2010. ISBN 978-965-555-461-8
28. “The Shades Arrive to the Beach” article by Noam Dvir in the Galleria section of Ha’aretz. 9.7.2010 (In Hebrew).
29. Economic effects in the "greenest " building in Israel by Eldar Katzevich. In Building Engineering and Infrastructure magazine. Issue 45. May 2011. Pp 13-20(In Hebrew).
30. “5 Moments in the Architecture of Tel Aviv Museum” by Noam Dvir. In Haaretz newspaper. 31.10.2011 (In Hebrew).
31. “The Tel Aviv Derby: On the new building of Tel Aviv Museum”. By Jontan Kinarti in Maariv newspaper. 27/10/2011 (In Hebrew).
32. Man, N. 2011. Culture Acropolis in the Hebrew City. Review on Five Moment book at Makor Rishon Literature supplement. (Heb) <http://musaf-shabbat.com/2011/12/08>
33. “[The next museum in Tel Aviv](#)”. By Naama Riba. In Xnet 12.12.2012
34. Five Moments exhibition. Domus magazine, Israel #018. 2012. Pp 32-33.
35. Five Moments exhibition. Architecture of Israel Quarterly (AI). #88 2/2012. Pp-18-19 (In Hebrew/English)
36. The most promising architectural project of the coming year (2013). September 2012. In Binyan Vedyur (<http://www.bvd.co.il>)
37. “[Our baskets are on our shoulders](#)” in Xnet (Yediot Haharonot), may25th 2013. (in Hebrew) 2013
38. “[Haifa Needs a Cultural-Architectural Icon](#)” in KolBO. 25.9.2019.

Interviews with me in printed and broadcasted media

1. “The functionalism is dead, long live the new discourse – an interview with the curators of Performalism “ By Noga Laser. In “Redesign” www.redesign.co.il. 18.8.2008
2. “How smart can a phone be” in Architecture of Israel Quarterly. Vol. 93. PP 19-31. 2013 (Hebrew).
3. Askimo mobile TV channel. Talking Design. <http://askimo.com/PlayVideo.aspx?vid=5058>. January 21st.2014 20:30 (Hebrew).
4. “Yasha Grobman was selected as the dean of the Faculty of Architecture and Town Planning at the Technion “ Haaretz. <https://xnet.ynet.co.il/articles/0,7340,L-5439705,00.html>. January 2nd 2019 (Hebrew).
5. [An interview with Prof. Yasha Grobman, the dean of the Faculty of Architecture and Town Planning](#). Archijob. June 2019. (Hebrew).

6. "A Whatsapping with Dean Grobman: Teach and Practice". In Architecture of Israel Quarterly (AI). 119. November 2019. Pp 86-94. ([Hebrew](#) and [English](#)).
7. "[Studying Architecture in Israel: The Senior Institute in Israel offers a long track](#)". An interview By Michael Jacobson. In Xnet. January 26th. 2020.
8. "In Copenhagen they Build a Ski Course on the Roof of a Power Station, but in Haifa it is not clear that an invested in the "Lebenia" is worthwhile". An interview by Ran Puny for Israel Today weekend supplement. June 18th 2020.
<https://www.israelhayom.co.il/article/77234>

Presentation/discussion on my work in broadcasted media

1. Reshet TV channel (Chanel 2). Morning show with Aviv Lavie on the Porter Building of Environmental Studies.
http://reshet.tv/Shows/your_family_Haolam_Haboker/videomarklist,234914. 27.5.2014
2. Reshet TV channel (Chanel 2). News (opening of the Capsule building).
<http://reshet.tv/חדשות/News/programs/SixWith/allsixwith/Article,166660.aspx>.
21.10.2014

Other Public and Professional Activities

1. Member of the steering committee for the construction of the new building – Tel Aviv Museum of Art. 2006 - 2011
2. "Zionut 2000" – Pro bono work as an architecture consultant to improve living conditions in poor neighborhoods. 2003-2005
3. Young Architects Forum. Organization of young architects' forum with Eyal Bar. 1999