

RESUME

January 2024

1. PERSONAL DETAILS

Full name: Or Aleksandrowicz
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2. ACADEMIC DEGREES

- 2012-2015 Dr.techn. (magna cum laude) in **Engineering Sciences Architecture**, supervisor: Prof. Ardeshir Mahdavi, Faculty of Architecture and Planning, Vienna University of Technology
- 2009-2012 M.Sc. (magna cum laude) in **Building Science and Technology**, supervisor: Prof. Ardeshir Mahdavi, Faculty of Architecture and Planning, Vienna University of Technology
- 1997-2002 B.Arch. (magna cum laude) in **Architecture**, the David Azrieli School of Architecture, Tel Aviv University

3. ACADEMIC APPOINTMENTS

- 2019-Present Assistant Professor (tenure-track), Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology
- 2017-2019 Senior Lecturer (adjunct), Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology
- 2015-2017 Post-doctoral Fellow, Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology
- 2012-2014 Project Assistant in EU project 3CE292P3 (Development and Application of Mitigation and Adaptation Strategies and Measures for Counteracting the Global Urban Heat Islands Phenomenon), Department of Building Physics and Building Ecology, Faculty of Architecture and Planning, Vienna University of Technology
- 2005-2006 Assistant Lecturer, Department of Architecture, Bezalel Academy of Arts, Jerusalem

4. PROFESSIONAL EXPERIENCE (outside academia)

- 2018-2020 Project consultant to Tel Aviv-Yafo Municipality on the development of a strategic plan for the C40 Cool Cities initiative
- 2008-2009 Dunsky Architects, Ramat Gan, senior architect (project manager)
- 2000-2007 JP Friedman & Associates, Tel Aviv, senior designer and architect (project manager)

5. RESEARCH INTERESTS (briefly)

- Urban microclimate: the climatic aspects of urban planning and design, including their effect on outdoor thermal comfort of individuals and energy consumption in buildings
- Bioclimatic building design: the effects of indoor climate on thermal, visual, and energy building performance and occupants' wellbeing
- Building performance simulation: the application of computational tools in the analysis of varied aspects of building performance
- History of modern architecture and urban planning
- History of building science and technology: the historical developments and transformation of building technologies and building science, focusing on their relation to planning and design practices

- Digital humanities: the application of digital analysis tools and big data processing in the writing of urban and architectural history

6. TEACHING EXPERIENCE

Technion – Israel Institute of Technology

206959 **Technological history of architecture** (teacher), newly constructed course
 Graduate Years 1 and 2 and Undergraduate Years 3 and 4, 3 credits
 Enrolment: 33 students
 Period: Spring 2023

206101 **Architectural research** (teacher), newly constructed course
 Graduate Year 2 (final year), 2 credits
 Enrolment: 51-59 students
 Period: Winter 2020-21, Winter 2021-22, Winter 2022-23

208800 **Architecture and town planning seminar** (teacher), newly constructed course
 Graduate Year 2 (final year), 3 credits
 Enrolment: 50 students
 Period: Spring 2021, Spring 2022, Spring 2023

206566 **Urban microclimate**, newly constructed course
 Graduate Years 1 and 2 and Undergraduate Years 3 and 4, 3 credits
 Enrolment: 39 students
 Period: Spring 2021, Spring 2022

208800 **Architecture and town planning seminar** (teaching assistant)
 Graduate Year 2 (final year), 3 credits
 Enrolment: 9 students
 Period: Spring 2020

206101 **Architectural research** (teaching assistant)
 Graduate Year 2 (final year), 2 credits
 Enrolment: 16 students
 Period: Spring 2019

206007 **Multi-stage illumination design with computational tools**, new course
 Graduate and Undergraduate Years 3 and 4, 3 credits
 Enrolment: 20 students
 Period: Spring 2019

205701 **Subjects in comprehensive planning** (teaching assistant)
 Graduate Year 2 (final year), 3 credits
 Enrolment: 18 students
 Period: Winter 2018-19

206007 **Advanced energy modelling of buildings**, new course
 Graduate and Undergraduate Years 3 and 4, 3 credits
 Enrolment: 12 students
 Period: Winter 2017-18

Bezalel Academy of Arts**Building analysis 2** (teaching assistant)

Undergraduate Year 3, 3 credits

Enrolment: 21 students

Period: Spring 2006

8 cubic meters (design studio)

Undergraduate Year 3, 6 credits

Enrolment: 17 students

Period: Winter 2005-6

7. TECHNION ACTIVITIES

2023-Present Member of the Technion's Sustainability Frontier Council

2020-Present Member of the Technion's computer committee

8. DEPARTMENTAL ACTIVITIES

2023-Present Head of the Architecture Track Sustainable Architecture Topic

2022-Present Head of the Architecture Track Research Coordination subcommittee

2022 Head of the Yuval Amir prize committee

2021-Present Member of the Architecture Track search committee for faculty open positions

2020-Present Member of the board of directors of the Built Heritage Research Center, Faculty of Architecture and Town Planning

2020-Present Member of the David Azrieli Fellowship committee

2020-Present Member of the Architecture Track graduate admission committee

2019-Present Developer of the Faculty's new internet site, including its ongoing management, coordination, and content editing

2019 Member of the Glass Balaban Scholarship committee

9. PUBLIC PROFESSIONAL ACTIVITIES2023 Consultation for the project *A Quantification Tool for Sustainable Landscape Architecture*, the Israeli Association of Landscape Architects, supported by the Ministry of Housing

2023 Review of a research proposal for Holon Institute of Technology (HIT)

2023 Invited member of the promotion committee of a Lecturer at the Architecture Department of Bezalel Academy of Arts, Jerusalem

2023 Ad-hoc reviewer for the following peer-reviewed journal: *Buildings & Cities, Building and Environment, Urban Climate* (two reviews)2022-2023 Member of the scientific committee of the *UHI 2023 - The 6th International Conference on Countermeasures to Urban Heat Islands* conference, RMIT University, Melbourne, Australia, including abstract and paper reviews

2022 Member of one of the stirring groups of the National Program for Outdoor Shade in Israel

2022 Ad-hoc reviewer for the following peer-reviewed journal: *Planning Perspectives*2021 Ad-hoc reviewer for the following peer-reviewed journals: *Building and Environment* (two reviews), *Sustainable Cities and Society*

2020-2023 Member of the Public Council on the Establishment of the Tel Aviv-Yafo City Museum

2020 Ad-hoc reviewer for the following peer-reviewed journals: *Building and Environment; Computers, Environment and Urban Systems; Energy and Buildings; Environment and Planning B: Urban Analytics and City Science*

- 2019 Ad-hoc reviewer for the following peer-reviewed journals: *Building and Environment*; *Energies*
- 2018 Ad-hoc reviewer for the following peer-reviewed journals: *Applied Energy*; *Architectural Research Quarterly*; *Architectural Science Review*; *Sustainable Cities and Society*
- 2016-Present Member of the Tel Aviv District Activists Committee of the Council for Conservation of Heritage Sites in Israel
- 2016 Ad-hoc reviewer for the following peer-reviewed journal: *Planning Perspectives*
- 2014-2016 Member of the Committee for Architecture Terminology at the Academy of the Hebrew Language, Jerusalem (the committee was disassembled)
- 2013 Ad-hoc reviewer for the following peer-reviewed journal: *Teorya U-Vikoret* (Theory and Criticism, Hebrew)

10. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- IAUC – International Association for Urban Climate
- Registered architect in Israel, registration number 00115650

11. FELLOWSHIPS, AWARDS AND HONORS

- 2022 Finalist in the National Library of Israel's and Yad Hanadiv's **tarboot competition** on digital tools for cultural assets dissemination, team leader (members: Daniel Rosenberg, Elad Horn, Yoav Orion), awarded 10,000 USD for initial development of a computational tool
- 2018 The David J. Azrieli Central Archives and Israeli Research Center for Architecture fellowship for a research project on shading elements in the architecture of Arie Sharon and Dov Karmi, 27,000 NIS
- 2016-2018 Glass-Balaban Foundation fellowship for a research project on the history of modern building technologies in Palestine and Israel, 58,150 NIS
- 2015-2017 Post-doctoral fellowship at the Faculty of Architecture and Town Planning, the Technion
- 2015-2017 Post-doctoral fellowship for returning scientists from the Center for Absorption in Science in the State of Israel's Ministry of Aliyah and Immigrant Absorption

12. GRADUATE STUDENTS

Completed MSc theses

- 2019-2021 Michelle Levenson, *Pedestrian behavior and thermal perception under varying urban microclimatic conditions*, Ben Gurion University of the Negev. Supervisors: David Pearlmuter (primary supervisor), **Or Aleksandrowicz** (secondary supervisor)
- 2020-2023 Yoav Orion, *The history of street trees in Tel Aviv, 1909-1948*, Technion. Supervisor: **Or Aleksandrowicz**
- 2021-2023 Tamar Levinger, *Before it was digital: Exhibitions as a prism of digital ideas in architecture between 1968 and 1970*, Technion. Supervisors: Aaron Sprecher (primary supervisor), **Or Aleksandrowicz** (secondary supervisor)

PhD theses in progress

- 2020-2024 Elad Horn, *Neoliberal architectural change in Tel Aviv-Yafo, 1977-1991: A spatial humanities approach to architectural historiography*, Technion. Supervisor: **Or Aleksandrowicz**
- 2021-2025 Samuel Giler, *The development of Jaffa and Tel Aviv ports during 1920-1939: Imperial considerations, political struggle and planning and engineering innovations*, University of Haifa. Supervisors: Moshe Naor (primary supervisor), **Or Aleksandrowicz** (secondary supervisor)

2023-2027 Hadar Porat, *Material Flux: The history of energy-intensive building technologies in Israel, 1948-2009*, Technion. Supervisor: **Or Aleksandrowicz**

MSc theses in progress

2021-2024 Motti Ruimy, *An empirical examination of the effect of shade on walkability in Israeli towns*, Technion. Supervisor: **Or Aleksandrowicz**

2022-2024 Yosef Mor, *Urban renewal as a tool for microclimatic improvement*, Ben Gurion University of the Negev. Supervisors: David Pearlmutter (primary supervisor), **Or Aleksandrowicz** (secondary supervisor)

2023-2025 Sivan Sharabi, *Calculating street tree planting density benchmarks based on their effect on outdoor shade provision*, Technion. Supervisor: **Or Aleksandrowicz**

2023-2025 Hadas Siyonov, *Street trees and housing prices in Israeli cities*, Technion. Supervisors: Dani Broitman (primary supervisor), **Or Aleksandrowicz** (secondary supervisor)

13. SPONSORED LONG-TERM VISITORS AND POST-DOCTORAL ASSOCIATES

2023-2024 Talia Kaufmann, post-doc, *Development of an urban-scale building electricity consumption model based on building characteristics, climatic conditions and occupant behavioural profiles*, Supervisor: **Or Aleksandrowicz**

2023 Rona Aviram, post-doc, *Researching contemporary history of urban climatology and urban planning using Wikipedia's archives*, Supervisor: **Or Aleksandrowicz**

2023 Anat Goldman, post-doc, *Finding the first modernist building in Tel Aviv: A data science approach*, Supervisor: **Or Aleksandrowicz**

14. RESEARCH GRANTS

Competitive

2023-2027 Israel Science Foundation, *The climates we have built: Historicizing urban climates as products of urban planning*, PI, 640,000 NIS.

2023-2025 Israel Ministry of Innovation, Science and Technology, *Development of a novel method for calculating and high-resolution mapping of urban tree planting potential*, PI, 499,040 NIS.

2019-2023 Israel Science Foundation, *Development of an integral microclimatic analysis tool for combating urban heating*, research associate with Prof. David Pearlmutter (PI), 840,000 NIS.

Industrial and other sources

2024-2026 Ministry of Energy and Infrastructure, *Development of a hi-res spatial and temporal electricity demand model in Israel*, PI1 with Prof. Avigdor Gal (PI2), 450,000 NIS.

2023-2024 Environment and Sustainability Research Center, *Optimizing the spatio-climatic accessibility conditions to public transport: A data-driven approach*, PI with Prof. David Pearlmutter (co-PI), 25,000 NIS.

2023 Higher Education Planning and Resource Allocation Committee, *Digitization and Distribution of Historical Photography Collections*, PI, 10,000 NIS.

2023 Tel Aviv-Yafo Municipality, *Formulation of urban design guidelines for urban cooling*, PI, 127,060 NIS (contract pending).

2022-2024 Israel Innovation Authority, *Development of a Hebrew textual database on the built environment – construction, planning and architecture*, PI, 439,600 NIS.

2022-2023 Yad Hanadiv Foundation, *Development of a quantitative framework for evaluation and enhancement of urban shade and urban forestry*, PI with Prof. David Pearlmutter (co-PI), 210,000 NIS.

- 2022-2023 Center for Humanities and AI (University of Haifa and the Technion), *Finding the first modernist building in Tel Aviv: A data science approach*, PI with Prof. Maoz Azaryahu (co-PI), 60,000 NIS.
- 2022 Netivot Municipality, *Strategic plan for climatic resilience (first phase)*, PI, 108,000 NIS.
- 2021-2024 Technion's GTEP-MLIS, *Development of an urban-scale building electricity consumption model based on building characteristics, climatic conditions and occupant behavioural profiles*, PI1 with Prof. Avigdor Gal (PI2), 50,000 USD.
- 2021 Israel100 Initiative, *Development of a computational tool for interactive evaluation of street shading*, PI, 10,000 NIS.
- 2020-2022 Technion Data Science Initiative, *Deciphering energy consumption and visual comfort in buildings through analysis of large datasets of real-world adjustable sun protections operation*, PI with Prof. Avigdor Gal (co-PI), 20,000 NIS.
- 2019-2020 Tel Aviv-Yafo Municipality, *Quantification, analysis and evaluation of the environmental aspects in Tel Aviv's historic core (second phase)*, PI with Shachar Zur (co-PI), 40,000 NIS.
- 2017-2019 Tel Aviv-Yafo Municipality, *Quantification, analysis and evaluation of the environmental aspects in Tel Aviv's historic core (first phase)*, PI with Shachar Zur (co-PI), 80,000 NIS.

15. PUBLICATIONS

Theses

- 2012 Thermal Performance Analysis of Central Hall Houses in the Israeli Coastal Plain (Master Thesis), Vienna University of Technology
- 2015 Architecture's Unwanted Child: Building Climatology in Israel, 1940-1977 (Doctoral Dissertation), Vienna University of Technology

Refereed papers in professional journals

Published papers

1. **Or Aleksandrowicz**, The camouflage of war: Planned destruction in Jaffa and Tel Aviv, 1948, *Planning Perspectives* 32(2): 175-198, 2017, DOI: 10.1080/02665433.2016.1185962.
2. **Or Aleksandrowicz**, Milena Vuckovic, Kristina Kiesel, Ardeshir Mahdavi, Current trends in urban heat island mitigation research: Observations based on a comprehensive research repository, *Urban Climate* 21: 1-26, 2017, DOI: 10.1016/j.uclim.2017.04.002.
3. **Or Aleksandrowicz**, Appearance and performance: Israeli building climatology and its effect on local architectural practice (1940–1977), *Architectural Science Review* 60(5): 371-381, 2017, DOI: 10.1080/00038628.2017.1354812.
4. Jonathan Natanian and **Or Aleksandrowicz**, Environmental education of an architect: The case of final-year design studio at the Technion, Israel, *Archnet-IJAR* 12(1): 356-366, 2018, DOI: 10.26687/archnet-ijar.v12i1.1305.
5. **Or Aleksandrowicz** and Abraham Yezioro, Mechanically ventilated double-skin facade in a hot and humid climate: Summer monitoring in an office tower in Tel Aviv, *Architectural Science Review* 61(3): 171-188, 2018, DOI: 10.1080/00038628.2018.1450726.
6. **Or Aleksandrowicz** and Ardeshir Mahdavi, The application of building performance simulation in the writing of architectural history: Analysing climatic design in 1960s Israel, *Frontiers of Architectural Research* 7(3): 367-382, 2018, DOI: 10.1016/j.foar.2018.06.003.
7. **Or Aleksandrowicz**, Claudia Yamu and Akkelies van Nes, Spatio-syntactical analysis and historical spatial potentials: The case of Jaffa-Tel Aviv, *Journal of Interdisciplinary History* 49(3):445-472, 2018, DOI: 10.1162/jinh_a_01304.

8. Jonathan Natanian, **Or Aleksandrowicz** and Thomas Auer, A Parametric Approach to Optimizing Urban Form, Energy Load Match and Environmental Quality: The Case of Hot and Dry Mediterranean Districts, *Applied Energy* 254, 2019, DOI: 10.1016/j.apenergy.2019.113637.
9. **Or Aleksandrowicz**, Shachar Zur, Yonatan Lebendiger and Yoav Lerman, Shade maps for prioritizing municipal microclimatic action in hot climates: Learning from Tel Aviv-Yafo, *Sustainable Cities and Society* 53: 101931, 2020, DOI: 10.1016/j.scs.2019.101931.
10. **Or Aleksandrowicz** and David Pearlmutter, The significance of shade provision in reducing street-level summer heat stress in a hot Mediterranean climate, *Landscape and Urban Planning* 229: 104588, 2023, DOI: 10.1016/j.landurbplan.2022.104588.
11. **Or Aleksandrowicz**, Tanya Saroglou and David Pearlmutter, Evaluation of summer mean radiant temperature simulation in ENVI-met in a hot Mediterranean climate, *Building and Environment* 245: 110881, 2023, DOI: 10.1016/j.buildenv.2023.110881.
12. **Or Aleksandrowicz**, Forget and rewrite. Unearthing the history of Manshiya/Neve Shalom, *architectura: Journal of the History of Architecture* [forthcoming].

Published papers in Hebrew periodicals

13. **Or Aleksandrowicz**, Kurkar, cement, Arabs, Jews: How to construct a Hebrew city [in Hebrew], *Teorya U-Vikoret (Theory and Criticism)* 36: 61-87, 2010.
14. **Or Aleksandrowicz**, Civilian demolition: The premeditated destruction of Manshiya neighborhood in Jaffa, 1948-1949 [in Hebrew], *Iyunim Bitkumat Israel (Studies in Israeli and Modern Jewish Society)* 23: 274-314, 2013.
15. **Or Aleksandrowicz**, Paper boundaries: The erased history of the neighborhood of Neveh Shalom [in Hebrew], *Teorya U-Vikoret (Theory and Criticism)* 41: 165-197, 2013.
16. **Or Aleksandrowicz**, The Vanishing House: Jewish Pioneers and Historiographic Blindness in Northern Jaffa [in Hebrew], *Cathedra* 156: 101-128, 2015.
17. **Or Aleksandrowicz**, The façade of building: Exposed building envelope technologies in modern Israeli architecture [in Hebrew], *Iyunim Bitkumat Israel (Studies in Israeli and Modern Jewish Society)* 31: 306-348, 2019.

Refereed chapters in academic books

18. **Or Aleksandrowicz** and Samuel Giler, The new gate of Jaffa during the late Ottoman period, in Aaron A. Burke, Kathrine Strange Burke, Martin Peilstöcker (eds.), *History and Archaeology of Jaffa 2*, Costen Institute of Archaeology, UCLA, pp. 175-186, 2017.
19. **Or Aleksandrowicz**, The other side of climate: The unscientific nature of climatic architectural design in Israel, in Inbal Ben-Asher Gitler and Anat Geva (eds.), *Israel as a Modern Architectural Experimental Lab, 1948-1978*, Intellect Books, pp. 277-301, 2019.
20. **Or Aleksandrowicz**, Facing the Sun: German-Speaking Émigrés and the Roots of Israeli Climatic Building Design, in Elana Shapira (ed.), *Designing Transformation*, Bloomsbury, London, 253-266, 2021.
21. **Or Aleksandrowicz**, Mapping and management of urban shade assets: a novel approach for promoting climatic urban action, in Ansar Khan et al. (eds.), *Global Urban Heat Island Mitigation*, Elsevier, Amsterdam, 1-27, 2022.
22. Yoav Orion and **Or Aleksandrowicz**, Street trees in Tel Aviv, 1909-1948: Competing ideals and the triumphs of climate, in Gadi Algazi, Roi Ball and Sagi Schaefer (eds.), *Entangled Woods/Verflochtene Waldgeschichten: Tel Aviver Jahrbuch für Deutsche Geschichte*, Wallstein Verlag, Göttingen, Germany [forthcoming 2024].
23. **Or Aleksandrowicz**, Drawing the Line: Reshaping Spatial Distinctions and Historical Memory in Jaffa and Tel Aviv, in Anna Hofmann and Guy Rak (eds.), *History Takes Place: Tel Aviv*, JOVIS [forthcoming].

Refereed papers in conference proceedings

24. **Or Aleksandrowicz** and Ardeshir Mahdavi, Thermal performance analysis of central hall houses in the Israeli coastal plain, Proceedings of BauSIM 2012: 4th German-Austrian IBPSA (International Building Performance Simulation Association) Conference, pp. 13-22, 2012.
25. **Or Aleksandrowicz** and Ardeshir Mahdavi, The impact of building climatology on architectural design: a simulation-assisted historical research of an Israeli case study, Proceedings of BS2015: 14th Conference of International Building Performance Simulation Association, pp. 2150-2157, 2015.
26. **Or Aleksandrowicz**, Claudia Yamu and Akkelies van Nes, The socio-spatial development of Jaffa-Tel Aviv: The emergence and fade-away of ethnic divisions and distinctions, Proceedings of SSS11: 11th International Space Syntax Symposium, 2017.
27. Jonathan Natanian, **Or Aleksandrowicz**, Articulation, space and sustainability: A report on diploma student projects at the Technion, Israel, Proceedings of PLEA 2017: 33rd International Conference on Passive Low Energy Architecture, 2017.
28. **Or Aleksandrowicz**, Shachar Zur, Yonatan Lebendiger, Yoav Lerman, Shade maps for climatically-aware urban design in Tel Aviv-Yafo, Proceedings of the 1st Regional Conference of the Cyprus Network for Urban Morphology (CyNUM), 2018.
29. **Or Aleksandrowicz** and Ezra Ozery, A Parametric Tool for Outdoor Shade Design: Harnessing Quantitative Indices and Visual Feedback for Effective and Efficient Climatic Design of Streets, Proceedings of CAAD Futures 2023: Computer-Aided Architectural Design. INTERCONNECTIONS: Co-computing Beyond Boundaries, 2023, DOI: 10.1007/978-3-031-37189-9_20.

Research reports and other publications

Research reports

1. **Or Aleksandrowicz** and Abraham Yezioro, *Examination of the Thermal Performance of the Double Skin Façade at the First International Bank Tower* [in Hebrew], Center for Architecture Research and Development, the Technion, 2016.
2. **Or Aleksandrowicz**, *Cool Cities: Action Road Map for Tel Aviv-Yafo* [in Hebrew], Tel Aviv-Yafo Municipality, 2019.
3. **Or Aleksandrowicz**, Shachar Zur, Yonatan Lebendiger, Yoav Lerman, *Shade Maps and their Application for Shade Conservation and Intensification in Tel Aviv-Yafo* [in Hebrew], Tel Aviv-Yafo Municipality, 2019.
4. David Pearlmutter, **Or Aleksandrowicz** and Michelle Levenson, *Development of an Integral Microclimatic Analysis Tool for Combating Urban Heating – Interim Report*, submitted to Israel Science Foundation, 2021.
5. **Or Aleksandrowicz**, Shachar Zur, *Shade Maps and their Application for Shade Conservation and Intensification in Tel Aviv-Yafo – second part* [in Hebrew], Tel Aviv-Yafo Municipality, 2021.

Monographs and textbooks

6. **Or Aleksandrowicz** and Israel Architecture Archive, *Daring the Shutter: The Tel Aviv Idiom of Solar Protections*, Public School Editions, Tel Aviv, 2015.
7. **Or Aleksandrowicz**, *From Within the Box: The Architecture of Bar Orian* [in Hebrew], Babel Publishers, Tel Aviv [forthcoming 2024].

Edited Books

8. Yosef Eliyahu Chelouche, *Reminiscences of My Life* [in Hebrew], revised and annotated edition of the 1931 original edited by **Or Aleksandrowicz**, Babel Publishers, Tel Aviv, 2005.
9. Yosef Eliyahu Chelouche, *Reminiscences of My Life*, annotated English translation edited by Michelle Campos and **Or Aleksandrowicz**, Brandeis University Press, Waltham, MA [forthcoming].

Chapters in books

10. **Or Aleksandrowicz**, That thing that we live in [in Hebrew], introduction to *Land City: Local Essays* by Esther Zandberg, Babel Publishers, Tel Aviv, pp. 11-16, 2012.
11. **Or Aleksandrowicz**, No building has no end, in Erez Ella, Milana Gitzin-Adiram, Dan Handel (eds.), *Aircraft Carrier: American Ideas and Israeli Architecture after 1973*, Hatje Cantz, Ostfildern, Germany, 2012, pp. 52-61, 2012.
12. **Or Aleksandrowicz**, A wish for destruction: The life and death of the Herzliya Gymnasium building [in Hebrew], in Guy Raz (ed.), *Gymnasium Days: The Herzliya Hebrew Gymnasium, 1905-1959*, Eretz Israel Museum, Tel Aviv, pp. 26-47, 2013.
13. **Or Aleksandrowicz**, Postscript: a breath of non-intelligence [in Hebrew], postscript to the Hebrew edition of *The Architecture of the Well-Tempered Environment* by Reyner Banham, Babel Publishers, Tel Aviv, pp. 363-387, 2014.
14. **Or Aleksandrowicz**, Deconstructing Reconstruction: Planung und Zerstörung in Jaffa und Tel Aviv um 1948 [in German], in Hanno Loewy and Hannes Sulzenbacher (eds.), *All about Tel Aviv-Jaffa: Die Erfindung einer Stadt*, Jüdisches Museum Hohenems, pp. 321-341, 2019.
15. **Or Aleksandrowicz**, As if tomorrow would never come: a technological history of rural grain elevators in Israel [in Hebrew], in Joseph P. Friedman and Tzachi Ostrovsky, *Israeli Silos*, pp. 65-100, 2019.
16. **Or Aleksandrowicz**, Using street- and neighbourhood-level shade maps for prioritising urban action on climate, in Regina Vetter (ed.), *Neighbourhood level cooling: Experiences from C40's Cool Cities Network*, pp. 8-9, C40, 2021.

Other publications

17. **Or Aleksandrowicz**, A journey in the wake of a forgotten yesteryear, *Sharsheret Hadorot: Jewish Genealogy Research* 19(3): 14-19, 2005.
18. **Or Aleksandrowicz**, Kurkar, ciment, Arabes, Juifs: comment construit-on une ville hébraïque?, *Tsafon* 55: 21-60, 2008 [earlier and shorter version of the Hebrew publication under a similar name in *Teorya U-Vikoret*].
19. **Or Aleksandrowicz**, Khvoynik's balcony [in Hebrew], *Domus Israel* 2: 125-129, 2009.
20. **Or Aleksandrowicz**, Undelirious Tel Aviv [in Hebrew], *Time Out Tel Aviv*, 15.7.2010.
21. **Or Aleksandrowicz**, [Any building has its end](#) [in Hebrew], *Alaxon*, 2014.
22. **Or Aleksandrowicz**, [Windy with little intelligence](#) [in Hebrew], *Alaxon*, 2014.
23. **Or Aleksandrowicz**, Milena Vuckovic, Kristina Kiesel, Ardeshir Mahdavi, Mitigating urban heat islands: Does research support the needs of policy makers? *International Association for Urban Climate Newsletter* 65, pp. 13-17, 2017.
24. **Or Aleksandrowicz** and Shachar Zur, Shade maps for climatic urban planning in Tel Aviv-Yafo [in Hebrew], *Landscape Architecture* 74: 35-38, 2020.
25. **Or Aleksandrowicz**, Jaffa-Tel Aviv border: from a municipal division line to a national border [in Hebrew], *Tel Aviv-Yafo, Bulletin of the Historical Society* 1: 13-15, 2021.
26. **Or Aleksandrowicz**, [The road to hell is intentionally paved](#) [in Hebrew], *Sfat Rehov: An Urban Magazine*, 2022.
27. Anna Shnaidman, **Or Aleksandrowicz**, Dariel Renn-Pony, Moshe Yaniv, Medad Hoze and Morel Weisthal, [Geo data-based policymaking: National Tree Canopy Cover Example](#), *FIG Working Week 2023*, 28 May–1 June 2023.

16. CONFERENCES

Plenary, keynote or invited talks

Outside Israel

1. **Or Aleksandrowicz**, Climate, health and nation building: German-speaking immigrants and the origins of Israeli bioclimatic design, *Designing Transformation: Jews and cultural identity in Central European Modernism (international symposium)*, Vienna, Austria, 16-17 May 2019 (invited talk).
2. **Or Aleksandrowicz**, Pretending to be poor: how Israeli architects covered up capital with exposed concrete, *Concrete and Power: A Tribute to Balkrishna Doshi (hybrid international symposium)*, Ahmedabad, India, 14 September 2023 (invited talk).

In Israel

3. **Or Aleksandrowicz**, Tools for microclimatic mapping in Israel, *Research and innovation in gardening symposium*, Ministry of Agriculture, Beit Dagan, 21 May 2018 (invited talk).
4. **Or Aleksandrowicz**, Shade maps and their application in climatic urban planning in Tel Aviv-Yafo, *the 47th annual conference on science and environment*, Tel Aviv, 19-20 June 2019 (invited talk).
5. **Or Aleksandrowicz**, You cannot kill a city in a single day: The civilian destruction of Manshiya, *Deletion does not make anything go away: Symposium on trauma and architecture in Israel*, Tel Aviv University, 13 November 2019 (invited talk).
6. **Or Aleksandrowicz**, Climate, health and nation building: The German origins of Jewish bioclimatic building design in British Palestine, *Bauhaus on the Carmel: Modern architectures and the challenge of co-existence in Haifa (The Avie and Sarah Arenson Built Heritage Research Center annual international symposium)*, Haifa, 28 November 2019 (invited talk).
7. **Or Aleksandrowicz**, Technological growth and withering: The history of rural grain elevators in Israel, *ICOMOS (International Council on Monuments and Sites) Israel annual meeting*, online meeting, 3 December 2020 (keynote).
8. **Or Aleksandrowicz** and David Pearlmutter, Shade, without a doubt: conclusions from an extensive climatic monitoring campaign in Tel Aviv, *the 49th annual conference on science and environment*, online conference, 7-8 July 2021 (invited talk).
9. **Or Aleksandrowicz**, The war on mortar: exposure and concealment in the local art of building, *the 6th meeting of conservationist of the built heritage in Israel*, Zichron Yaakov, 24 August 2021 (keynote).
10. **Or Aleksandrowicz**, Cooling challenges in Israeli urban environments: How to realize change?, *City cooling – "urban heat island" mitigation symposium*, Forum 15: The Israeli Forum of Self-government Cities, online symposium, 14 December 2021 (invited talk).
11. **Or Aleksandrowicz**, The common ground of urban shade: Shade and trees in Tel Aviv's Geddes Plan, *Networking the MENA workshop: Interregional architectural transfers in times of global transformation*, Jerusalem, 6-8 June 2022 (invited talk).
12. **Or Aleksandrowicz**, How to quantify shade? Data-driven methods to promote shading and street tree planting in Israeli cities, *Climatic Innovation: The 13th National Conference for Teachers on Environmental Sciences*, Haifa, 21 June 2023 (invited talk).

Contributed talks and posters

(Unless indicated otherwise, all presentations are oral)

Outside Israel

13. **Or Aleksandrowicz**, Towards a reversible architecture, paper presented in *7. Tage der Kultur- und Sozialanthropologie*, University of Vienna, Vienna, Austria, 24-25 May 2012.
14. **Or Aleksandrowicz** and Ardeshir Mahdavi, Thermal performance analysis of central hall houses in the Israeli coastal plain, paper presented at *BauSIM 2012: 4th German-Austrian*

IBPSA (International Building Performance Simulation Association) Conference, Berlin, Germany, 19-21 September 2012.

15. **Or Aleksandrowicz** and Ardeshir Mahdavi, The impact of building climatology on architectural design: a simulation-assisted historical research of an Israeli case study, paper presented at *BS2015: 14th Conference of International Building Performance Simulation Association*, Hyderabad, India, 7-9 December 2015.
16. **Or Aleksandrowicz**, Claudia Yamu and Akkelies van Nes, The socio-spatial development of Jaffa-Tel Aviv: The emergence and fade-away of ethnic divisions and distinctions, paper presented at *SSS11: 11th International Space Syntax Symposium*, Lisbon, Portugal, 3-7 July 2017.
17. Jonathan Natanian, **Or Aleksandrowicz**, Articulation, space and sustainability: A report on diploma student projects at the Technion, Israel, paper presented at *PLEA 2017: 33rd International Conference on Passive Low Energy Architecture*, Edinburgh, UK, 3-5 July 2017.
18. Yael Allweil and **Or Aleksandrowicz**, Automated semantic interpretation of architectural digital imagery: Writing and rewriting Postmodern Tel Aviv-Jaffa architectural history, paper presented at *dhnord2017: (De)constructing digital history, 4th edition of the annual Digital Humanities conference organized by the Maison européenne des sciences de l'homme et de la société (MESHS)*, Lille, France, 27-29 November 2017.
19. Yael Allweil and **Or Aleksandrowicz**, Using GIS and Computer-Vision for Architectural and Urban History: Classifying Architectural Visual (Big)Data Tel Aviv-Jaffa, paper presented at *ESSHC 2018: 12th European Social Science History Conference*, Belfast, Ireland, 4-7 April 2018.
20. **Or Aleksandrowicz**, Shachar Zur, Yonatan Lebendiger, Yoav Lerman, Shade maps for climatically-aware urban design in Tel Aviv-Yafo, paper presented at *the 1st Regional Conference of the Cyprus Network for Urban Morphology (CyNUM)*, Nicosia, Cyprus, 16-18 May 2018.
21. **Or Aleksandrowicz**, Ornament in disguise: cultural tensions in exposed concrete application in Israel, paper presented at *AFR 2021: 7th international Architectural Finishes Research Conference, online international conference*, online international conference, 14-15 January 2021.
22. **Or Aleksandrowicz**, Can Jews Living among Arabs become Hebrew? The Cultural and Spatial Marginalization of the Jews of Manshiya, paper presented at *AIS 2021: 37th Annual Conference of the Association of Israel Studies*, online international conference, 7-9 June 2021.
23. **Or Aleksandrowicz**, David Pearlmutter and Soutana (Tanya) Saroglou, Urban summer shade under hot and arid conditions and the prospects of outdoor heat stress reduction: results of a large-scale monitoring campaign, online poster presentation at *2022 IAUC Virtual Poster Session*, online international conference, 30 August-1 September 2022.
24. **Or Aleksandrowicz** and Ezra Ozery, Kikayon 1.0: Bridging the microclimatic design gap using a parametric tool for designing and quantifying street-level outdoor shade, online poster presentation at *2022 IAUC Virtual Poster Session*, online international conference, 30 August-1 September 2022.
25. Michelle Levenson, **Or Aleksandrowicz** and David Pearlmutter, Where the shadows lay: A shading analysis and microclimatic approach toward analyzing pedestrian and cyclist behavior, online poster presentation at *2022 IAUC Virtual Poster Session*, online international conference, 30 August-1 September 2022.
26. **Or Aleksandrowicz**, From stone to sand: The role of local raw materials in the modernized building of Palestine's coastal areas, paper presented at *the Third NEHT Workshop 2022*, University of Vienna, Vienna, Austria, 8-10 September 2022.
27. David Pearlmutter, Michelle Levenson and **Or Aleksandrowicz**, Made in the shade: Thermal stress and pedestrian behavior in a Mediterranean city, *MedCLIVAR 2022: The 6th*

Mediterranean climate variability and predictability conference, Marrakesh, Morocco, 4-8 October 2022.

28. Anna Shnaidman, **Or Aleksandrowicz**, Dariel Renn-Pony, Moshe Yaniv, Medad Hoze and Morel Weisthal, Geo data-based policymaking: National Tree Canopy Cover Example, *FIG Working Week 2023*, Orlando, FL, 28 May–1 June 2023.
29. **Or Aleksandrowicz** and Ezra Ozery, A Parametric Tool for Outdoor Shade Design: Harnessing Quantitative Indices and Visual Feedback for Effective and Efficient Climatic Design of Streets, *CAAD Futures 2023*, Delft, the Netherlands, 5-7 July 2023.
30. **Or Aleksandrowicz**, Morel Weisthal, Valeria Aynbinder and David Pearlmutter, The Urban Shade Assets Mapper (USAM): A high-resolution GIS analysis tool for outdoor shade calculation and mapping, *ICUC 11: 11th International Conference on Urban Climate*, Sydney, Australia, 28 August-1 September 2023.
31. Michelle Levenson, David Pearlmutter and **Or Aleksandrowicz**, Where the Shadows Lay: A microclimatic shading analysis examining sidewalk users' behavior [poster], *ICUC 11: 11th International Conference on Urban Climate*, Sydney, Australia, 28 August-1 September 2023.

In Israel

32. **Or Aleksandrowicz**, Climate, health and nation building: The cultural roots of bioclimatic architecture in Israel, paper presented at *the 5th annual Israeli conference on environmental history*, Tel Aviv, 21 January 2019.
33. Elad Horn and **Or Aleksandrowicz**, Changing Architectural Idioms under Real Estate Crisis: Tel Aviv-Yafo in the 1980s, paper presented at *Fictitious capital: Postmodernism and the built environment (4th Avie and Sarah Arenson Built Heritage Research Center international symposium)*, Haifa, 24 March 2022.
34. **Or Aleksandrowicz** and Ezra Ozery, Development of a parametric tool for street shade design, paper presented at the *50th annual conference on science and environment*, Tel Aviv, 6-7 July 2022.
35. Yoav Orion and **Or Aleksandrowicz**, Street trees in Tel Aviv, 1909-1948: growing the climatic backbone of the city, paper presented at the *50th annual conference on science and environment*, Tel Aviv, 6-7 July 2022.
36. Anna Shnaidman, **Or Aleksandrowicz**, Dariel Renn-Pony, Moshe Yaniv and Morel Weisthal, Geo data-based policy-making: National Tree Shade Index Example, poster presentation at *GeoInt360 2022*, Tel Aviv, 6-7 November 2022.
37. **Or Aleksandrowicz**, Morel Weisthal, Valeria Aynbinder and David Pearlmutter, Development of a GIS tool for high-resolution calculating and mapping of urban shade levels, *The 51th Annual Conference on Science and Environment*, Tel Aviv, 12-13 July 2023.

Invited academic and public talks

Outside Israel

38. A family affair: The unconventional Palestine photos of Ze'ev Aleksandrowicz, Vienna Jewish Museum, Austria, 19.12.2017.
39. You cannot kill a city in a single day: The destruction of Manshiya, Jewish Museum Hohenems, Austria, 13.5.2019.
40. In the Shade: Climatic Considerations in Israeli Urban Planning, McGill University, online, 18.3.2021.
41. Having another look: a personal reading into a handful of Frank Scholten's photos, Pakhuis de Zwijger Amsterdam, the Netherlands, 21.9.2022.

In Israel

42. Neve Shalom/Manshiya: Four disappearances, guest lecture in a summer school organized by Bezalel Academy of Arts and Design, Tel Aviv-Yafo, 16.8.2015.

43. Climatic knowledge in architectural planning: A foretold failure? guest lecture in a course at the Faculty of Architecture and Town Planning, Technion, Haifa, 18.11.2015.
44. Architecture unwanted child: Building climatology in Israel, 1940-1977, guest lecture in a faculty colloquium, Faculty of Architecture and Town Planning, Technion, Haifa, 18.4.2016.
45. Destructive planning: Who really destroyed Manshiya? guest lecture in a faculty colloquium, Faculty of Architecture and Town Planning, Technion, Haifa, 3.4.2017.
46. The climatic complex of Israeli architecture, guest lecture in a course at Holon Institute of Technology, 22.6.2017.
47. Building climatology and architectural design in Israel: Applied science without application? guest lecture in a department colloquium, School of Sustainability, IDC Herzliya, 27.6.2017.
48. The climatic complex of Israeli architecture, guest lecture in a department colloquium, the David Azrieli School of Architecture, Tel Aviv University, 11.12.2017.
49. Shade maps and their application for climatic urban planning in Tel Aviv-Yafo, guest lecture in a course at the Faculty of Architecture and Town Planning, Technion, Haifa, 10.12.2018.
50. Shade maps and their application for climatic urban planning in Tel Aviv-Yafo, guest lecture in a department colloquium, Department of Geography and Environmental Development, Ben-Gurion University of the Negev, Beer Sheva, 7.4.2019.
51. The use of large-scale demolitions as a Modernist urban planning tool in Tel Aviv between the 1930s and the late 1980s, Summer school organized by ZEIT-Stiftung and Gerda Henkel Stiftung, Tel Aviv-Yafo, 23.9.2019.
52. "Never mind all that environmental rubbish, get on with your architecture", guest lecture in a course at the Faculty of Architecture and Town Planning, Technion, Haifa, 14.11.2019.
53. Where did the 'New Gate' of Jaffa go?, Book launch evening organized by the Council for Conservation of Heritage Sites in Israel, Tel Aviv-Yafo, 5.12.2019.
54. A story that begins with a single house, guest lecture in a course at the Faculty of Architecture and Town Planning, Technion, Haifa, 9.12.2019.
55. Shade maps and the promotion of climatic urban planning in Israel, guest lecture in a faculty colloquium, Faculty of Architecture and Town Planning, Technion, Haifa, 9.12.2019.
56. Shade maps: A tool for promoting climatic urban planning in Tel Aviv-Yafo, Tel Aviv-Yafo Municipality, 26.12.2019.
57. Shade maps and the promotion of climatic urban planning in Israel, guest lecture in a department colloquium, School of Sustainability, IDC Herzliya, 7.1.2020.
58. Shade maps for prioritizing municipal microclimatic action in hot climates, guest lecture in the Sustainability & Energy Research Forum, Weizmann Institute, Rehovot, 19.1.2020.
59. Shade, temperature, and public space, The Israeli Green Building Council, Tel Aviv-Yafo, 29.10.2020.
60. Solar eclipse: sun, windows, and architectural fashions in Israel, Bezalel Academy of Art, online, 17.12.2020.
61. Not a labyrinth with corridors: the climatic thinking and importance of the Gilman Building, Tel Aviv University, online, 15.3.2021.
62. Without a doubt of shadow: planning and urban climate in Israel, Bezalel Academy of Art, online, 25.5.2021.
63. Sun, sweat and tears: Why urban cooling is a matter of light and shade, TLV Rumble Hackathon by Microsoft and Lanez, online, 13.10.2021.
64. Do architects hate shade? Impressions from looking at the Israeli space, Bezalel Academy of Art, Jerusalem, 20.12.2021.
65. Shade, trees and a city: development of methods for urban shade and urban forestry quantification, the National Program for Urban Cooling and Shade, Bat Yam, 29.3.2022.
66. Urban microclimate in Israel: talking much about, doing less?, The Israeli Green Building Council, Tel Aviv-Yafo, 5.4.2022.
67. Shade and tree mapping: a key to urban microclimate assessment in Israel, Israel Meteorological Service, online, 29.6.2022.

68. Quantifying Shade: A Key to Urban Afforestation in Hot Climates, The Israeli Green Building Council, Tel Aviv-Yafo, 31.7.2023.
69. Tell me, why didn't you design some shade around here?, Bezalel Academy of Art, 5.9.2023.

17. Notes

Chief editor of *Architectures* book series, Babel Publishers

Since 2006, I am the chief editor of *Architectures* series at Babel Publishers, Tel Aviv, a long-standing book series in Hebrew dedicated to books on architecture and urbanism. As the series' chief editor, I am responsible for shaping the editorial line of the series (selection of translated titles, initiation, and close development of original books in Hebrew), as well as for supervising the whole production process of each book. Following is a list of books published in the series under my editorship:

1. *Avraham Yasky, Concrete Architecture* [in Hebrew] by Sharon Rotbard, 2007.
2. *The Death and Life of Great American Cities* [Hebrew edition] by Jane Jacobs, including annotations, 2008.
3. *Learning from Las Vegas* [Hebrew edition] by Robert Venturi, Denise Scott Brown and Steven Izenour, including translation and annotations, 2008.
4. *City of Concept: Planning Tel Aviv* [in Hebrew] by Nathan Marom, 2009.
5. *Delirious New York* [Hebrew edition] by Rem Koolhaas, including translation and annotations, 2010.
6. *Cradle to Cradle* [Hebrew edition] by Michael Braungart and William McDonough, including translation and annotations, 2012.
7. *Land City: Local Essays* [in Hebrew] by Esther Zandberg, including preface, 2012.
8. *A Time for Conservation* [in Hebrew] by Amnon Bar Or, including complementary historical research, 2013.
9. *The Architecture of the Well-Tempered Environment* [Hebrew edition] by Reyner Banham, including translation, annotations, and postscript, 2014.
10. *My Father, Dov Karmi* [in Hebrew] by Ada Karmi-Melamede, including scientific editing, 2018.
11. *101 Things I Learned in Architecture School* [Hebrew Edition] by Matthew Frederick, including translation editing, 2018.
12. *Goldreich de Shalit: Locale* [in Hebrew] edited by Zvi Elhyani, 2020.
13. *Perspectives on the Work of Landscape Architect Zvi Dekel* [in Hebrew] edited by Nurit Lissovsky, 2021.
14. *Concrete and Culture* [Hebrew Edition] by Adrian Forty, including scientific editing [forthcoming 2024].

Media coverage of my work

1. Michael Jacobson, [Ivory towers of glass and air conditioning: the scorching climate does not concern Israeli architects](#) [in Hebrew], *Xnet*, 4.7.2015.
2. Esther Zandberg, [A first-of-its-kind study examines how to improve shade in Tel Aviv](#) [in Hebrew], *Haaretz*, 23.1.2019.
3. Ilan Itzhayek, [Our barns are filled with grain and crenels: a documentation journey of abandoned grain elevators in Israel](#) [in Hebrew], *Xnet*, 6.10.2019.
4. Dana Frank, [You cannot do away with air conditioning](#) [in Hebrew], *Hayot Kis Podcast, Israeli Public Broadcasting Corporation*, 26.8.2020.
5. On Dagan, [How to cool cities?](#) [in Hebrew], *Hakol Sviva, Israeli Public Broadcasting Corporation*, 19.4.2021.
6. Matan Jacob, [A country under the sun: why there is so little shade in Israel?](#) [in Hebrew], *Channel 12 News*, 1.8.2021.
7. Asaf Zagrizak, [Heat breaks records, and passengers are boiling at the stops and in the buses](#) [in Hebrew], *ynet*, 1.8.2021.

8. Shani Ashkenazi, "[In Israel they gave up on public space": urban planners ignore the climate crisis, the people will pay the high price \[in Hebrew\]](#), *Globes*, 7.5.2022.
9. Amnon Direktor, [European heat waves: "climate shelters" set up in Barcelona](#) [in Hebrew], *ynet*, 22.7.2022.
10. Peter Yeung, [Tel Aviv has shade down to a science](#), *reasons to be cheerful*, 16.8.2022.
11. Ofer Aderet, [When camels and bears roamed Tel Aviv: See the city in rare, century-old photos](#), *Haaretz*, 22.5.2023.
12. Hili Keren, [Drying out on a shadeless bus station](#) [in Hebrew], *Saving Program, Channel 12 News*, 30.7.2023.
13. Naama Riba, [The new light rail is finally on its way, but has anyone thought of the passengers?](#) [in Hebrew], *Haaretz*, 8.8.2023.
14. Naama Riba, [In the new parks in Tel Aviv you relax under a tree, but the streets are hot from the sun](#) [in Hebrew], *Haaretz*, 3.10.2023.