

Short Biography

I am a licensed architect, urbanist, historian, educator, and the Founding Director of the Vertical Geopolitics Lab, an investigative practice and think-tank at the intersections of architecture, geography, politology, and media, dedicated to exposing intangible systems and hidden agendas within the built environment. At the University of Toronto (UofT), I am an Assistant Professor of Architecture, Inaugural 2022-2024 Emerging Architect Fellow. There, my contribution at disciplinary intersections is reflected in my engagements as a Faculty Affiliate in Urban Studies at the UofT A&S SofC as well as a Faculty Affiliate in Global Affairs and Public Policy at the UofT Munk CERES. From the Architectural Association in London, I hold a PhD AD on political imaginaries in architectural and urban design history with a focus on how imperial-colonial expansion has been performed architecturally throughout history. I hold an MAUD from Harvard University and an MSc Arch from ETH Zurich. Among widespread international recognition, I have been selected as an Ambassadorial Scholar by the Rotary Foundation, a Global Shaper by the World Economic Forum, and an Emerging Leader by the European Forum Alpbach — leadership programs committed to change-making impact within local communities.

In the industry, I have extensive technical experience in construction gained at globally renowned architectural and landscape architectural design practices including Herzog & de Meuron Architekten and LCLA Office. In the academy, I am a Fellow of the British Higher Education Academy. Most notably in the realm of international teaching awards, I have been recognized for having devised, co-ordinated, conducted, and assessed courses and workshops including thesis supervision and examination at leading institutions in Europe, the Americas, and Oceania. I have spoken publicly at organizations such as the World Bank, have served as an editor and editorial advisor for periodicals at ETH, Columbia, Harvard, and UofT, and has curated and convened public programs at venues including the Venice Architecture Biennale.

Lukas Pauer (he/him), PhD AD (AA)
Architect, Urbanist, Historian, and Educator

Founding Director,
[Vertical Geopolitics Lab](#)

Assistant Professor of Architecture,
Emerging Architect Fellow,
[University of Toronto \(UofT\), Daniels](#)

The materials showcased in this dossier form an interrelated line of inquiry. Taking the research findings and framework of my doctoral dissertation as point of departure, all of my courses relate to aspects of space and power in the built environment but range in scale from the built object to the city or the polity.

A key component of my academic practice is to serve the empowerment of marginalized, underrepresented, and vulnerable individuals and communities; eg women, LGBTQ+, disability, homelessness, low income, wildlife, Indigenous, diasporic, and exiled people, as well as other victims of imperial-colonial violence.

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Didactic-Pedagogical Approach

In facilitating my students' learning, I focus on the fact that they will soon become my colleagues, often in just a few years' time. Instructors sometimes enforce a rigid hierarchy in which students are expected to not only respect, but even to fear instructors and critics. Rather, I believe that this rigid hierarchy of instructors and critics being the sole possessors of knowledge makes it impossible for more horizontal dialogs to open up. Especially in design, there are often multiple approaches to solving problems, which is why I tend to actively encourage my students to challenge me. I allow my students to start acting as my colleagues already. Thus, in the context of studio-based learning activities, in an effort to engage students in clarifying expectations, I often ask students to comment on each other's projects individually. When they share their work, I often ask students to provide critical and thoughtful responses to their peers' projects in regards to what works, and what could be improved on or done differently. With the risk of this process feeling embarrassing, awkward, or tedious to the students, I strongly believe that it is essential for them to look critically at their own work without the instructors and critics judging. By inviting students to have just as much of a voice, the studio not only becomes an *inclusive* but also an *authentic* environment in which future practitioners can meet to inspire and learn from each other. It helps students feel like they already are practicing colleagues doing work relevant to the real world. It gives them a sense of personal and meaningful involvement through deep learning. With the potential room for improvement, my hope is for this approach to allow each and every student to continue working on becoming the best possible practitioner they can be.

I also use and value *appropriate learning technologies*. For example, with the aim of fostering a sense of community among my students as well as to trigger and integrate prospective students' interests, I am experienced in employing various media types. I actively keep up-to-date with the features of virtual learning environments and management systems. I'd also like to note that I am experienced in both in-person as well as remote teaching. Not least because of the COVID-19 pandemic, I am familiar with developing solutions on how to convey very application-oriented and material contents within the framework of remotely taught formats.

In 2021, the year that I submitted my doctoral dissertation, I arrived to the University of Toronto (UofT), Daniels, appointed as (Honorary) Adjunct Professor of Architecture; a stipendiary honorary academic appointment that is 'reserved for distinguished people of exemplary achievement' with 'special qualifications and expertise' of value to the faculty and with whom it 'expects to have an ongoing connection'.

On arrival at the UofT Daniels, I translated the findings of my dissertation into a graduate elective seminar course format. This course triggered so much interest that I was approached to turn it into a thesis research studio course format. Subsequently, I was appointed as Assistant Professor of Architecture, Inaugural 2022-2024 Emerging Architect Fellow.

Today, in 2023, as part of my appointment at the UofT Daniels, I am teaching three courses. Two of them form a year-long studio course sequence that is projective in the design of the built environment. The other one is a lecture course that is more analytical in the history/theory of the built environment.

In the graduate architecture program, I supervise a group of final year students in a year-long thesis research studio course sequence supporting investigations on space and power in an effort to expose, challenge, and reconstitute the pervasive and ongoing reality of imperial-colonial expansion.

In the undergraduate architectural studies program, I teach a near 300-student core lecture course in which the understanding of public space as 'public' only to those who are politically represented and organized is central to it.

D AN IELS

U OF T

Winter 2022
GRADUATE ELECTIVE SEMINAR COURSE DESCRIPTION

COURSE CODE: ARC37XXHS
COURSE TITLE: Selected Topics in Architecture: Recognizing Facts on the Ground
CLASS HOURS: Fri, 9:00-12:00h
INSTRUCTOR NAME: Lukas Pauer
INSTRUCTOR EMAIL: lukas.pauer@daniels.utoronto.ca

COURSE DESCRIPTION:



Fig 1. Children watch as the US NASA Astronaut Corps Commander Neil Armstrong steps onto the moon during Apollo Program Mission 11 (1969). (Kevin Dettmar, 1969, photograph, NG Image Collection / Alamy, <http://www.alamy.com/>).

This course, through the format of a study group, will support investigations on space and power by collectively reading and processing current affairs with a particular focus on the visualization, materialization, and spatialization of international relations and global politics. Not unlike a reading or writing group that meets to discuss readings or writings, we will meet to study the news. Through a series of discussion-followed presentations and student projects we will collectively develop a better understanding of current affairs to make sense of presently unfolding events that require urgency as well as to acquire tools and models for students to read how power has been written into the built environment.



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Fig. A scene from the Recognizing Facts on the Ground elective seminar course at the UofT Daniels.

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Not unlike a reading or writing group that meets to discuss readings or writings, we met to study the news. Through a series of discussion-followed presentations and student projects we collectively developed a better understanding of current affairs to make sense of presently unfolding events that require urgency as well as to acquire tools and models for students to read how power has been written into the built environment.

History/Theory Elective Seminar Teaching in Architecture

*Instructor:
Lukas Pauer*

*Job Title and Affiliation:
(Honorary) Adjunct Professor of Architecture (stipendiary),
University of Toronto (UofT),
Daniels*

*Program, Course, and Term:
MArch/MLA/MUD, ARC3710HS
Selected Topics in Architecture:
Recognizing Facts on the Ground,
Winter 2022*

Fig. Course outline for the elective seminar course at the UofT Daniels. (Lukas Pauer, *ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground*, University of Toronto Elective Seminar Course Outline, instructed by Lukas Pauer, 2022).

History/Theory Elective Seminar Teaching in Architecture

Instructor:
Lukas Pauer

Job Title and Affiliation:
(Honorary) Adjunct Professor of Architecture (stipendiary), University of Toronto (UofT), Daniels

Student and Project Title:
Michelle Li, Chinese-German CWCA CRBGPB Berlin Zoo Giant Panda Enclosure

Program, Course, and Term:
MArch/MLA/MUD, ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground, Winter 2022

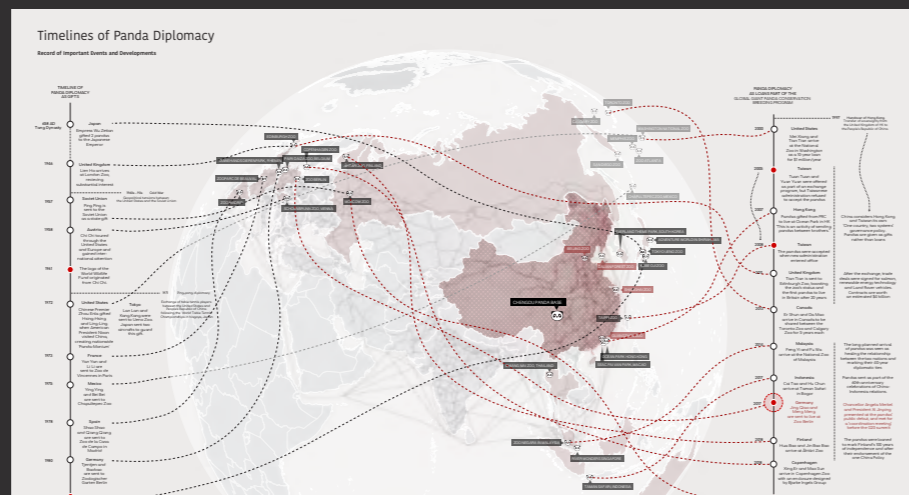
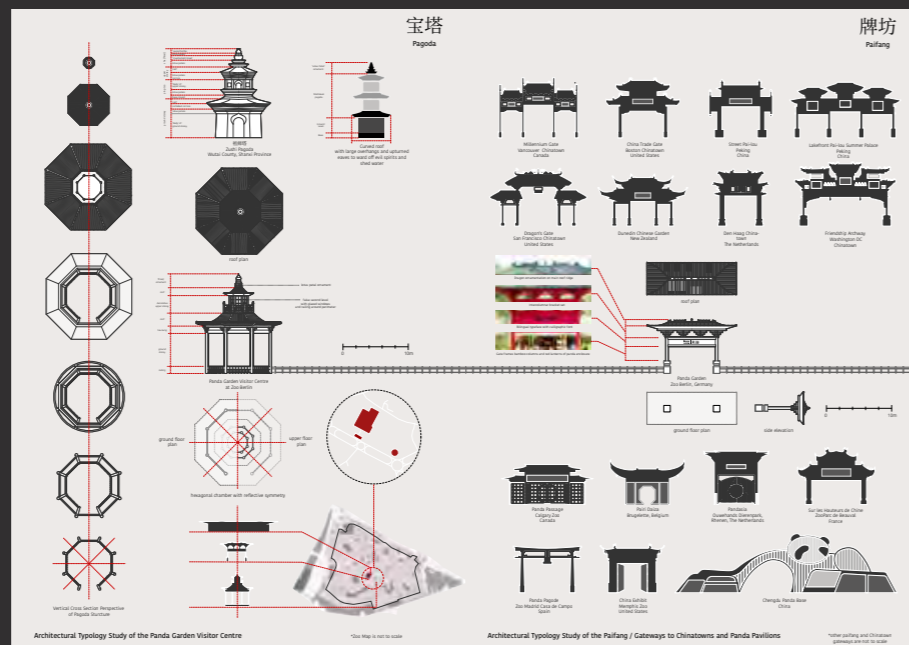
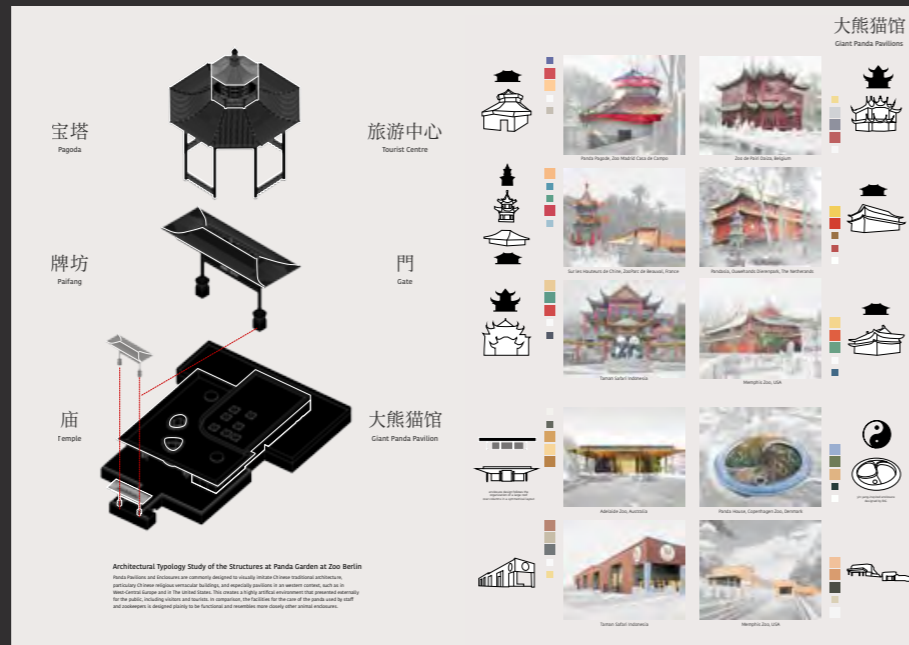


Fig. Student work sample from a final report submitted as part of the elective seminar course at the UofT Daniels. (Michelle Li, 'Chinese-German CWCA CRBGPB Berlin Zoo Giant Panda Enclosure,' in *ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground*, University of Toronto Elective Seminar Course Student Work, instructed by Lukas Pauer, 2022).

History/Theory Elective Seminar Teaching in Architecture

Instructor:
Lukas Pauer

Job Title and Affiliation:
(Honorary) Adjunct Professor of Architecture (stipendiary), University of Toronto (UofT), Daniels

Student and Project Title:
Bryson Wood, Russian MO VKS VTA 'From Russia with Love' COVID-19 HADR Operations

Program, Course, and Term:
MArch/MLA/MUD, ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground, Winter 2022



Fig. Student work sample from a final report submitted as part of the elective seminar course at the UofT Daniels. (Bryson Wood, 'Russian MO VKS VTA 'From Russia with Love' COVID-19 HADR Operations,' in *ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground*, University of Toronto Elective Seminar Course Student Work, instructed by Lukas Pauer, 2022).

Recognizing Facts on the Ground,
Elective Seminar Course (2022)

Teaching Dossier Lukas Pauer

Daniels Faculty Course Evaluation Results

Course: ARC3710HS

Instructor: Lukas Pauer

Session: Winter 2022

Number of evaluations completed: 5

	Faculty Average	Instructor Average
Communication of the goals, requirements and expectation for this course was:	4.15	4.80
Adherence to the terms of the course outline was:	4.46	4.80
The Instructor's knowledge and awareness of the course subject matter was:	4.58	5.00
Communication of the subject matter was:	4.16	5.00
The Instructor's consideration of students' level of understanding was:	4.15	4.80
The opportunity for student participation was:	4.41	5.00
The availability of the Instructor/Lecturer/Advisor for individual guidance was:	4.34	4.80
The quality and effectiveness of tutorials/labs/ field trips was:	4.10	4.80
Clarity and consistency in the evaluation of students' work was:	4.05	5.00
Promptness in the evaluation of student work was:	4.00	5.00
Overall rating of this Instructor as a teacher:	4.24	4.80
Improvement in your knowledge of the subject by taking this course was:	4.16	5.00

Fig. Teaching evaluation for the elective seminar course at the UofT Daniels. (Lukas Pauer, *ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground*, University of Toronto Elective Seminar Course Teaching Evaluation, instructed by Lukas Pauer, 2022).

Comments:

I thoroughly enjoyed this course. I wish there was more time during the semester to put more effort into it.

As someone who had no previous experience or knowledge of political and territorial aspects of architectural objects, this course truly opened my mind to the larger network of the built world's role within power systems. Thoroughly engaging, the lectures helped to guide students through complex ideas projected in the course. In the exploration of case studies, it was surprising that I developed a passion for the given topics as the instructor was also always readily available for discussion and shared the same interests and ambitions for students' work. Thank you Lukas, although I did not mention this during class, this was one of the most interesting courses I have taken in my educational career. I hope that you are able to bring these ideas into a studio or other comprehensive course structure as many of us feel that we would have loved to delve deeper into our projects. As always, time simply did not allow us to reach our full potential. Thank you again for your dedication, it was of incredible value to me this semester. I wish you all the best in the future and hope you have a great summer.

Very interesting subject material! Lukas clearly both knows a lot about the subject and is very passionate about it too. All expectations, deadlines and class structure was super clear and laid out at the beginning of the semester, so nothing was confusing at all. We also got a wide array of guest critics during our presentations as well as guests who would come in and run helpful tutorials, which I think is definitely an aspect of the course that should be sustained moving forward. I think the workload for this course is pretty heavy, and unfortunately, sometimes studio work and other courses took precedent. I would have appreciated getting into the research more, if only there was more time.

Lukas embodies the professionalism and passion of a sought after graduate level professor. He not only shows a great passion for the subject matter and provides extensive student support but engaged an impressive panel of external guests to lecture and critique. I was certainly impressed with his class. For suggestions, I would recommend to only have one guest review session. While greatly appreciated that we had the opportunity, the preparation for a formal presentation is not insignificant and the gap between the two was only two weeks. Perhaps the first review is more informal with the class - similar to the initial sessions. While this is certainly an elective requiring dedication, I gain an immense amount of knowledge from a professor who clearly wants to see his class succeed.

Please describe any content from this course which addressed diversity and equity topics such as: racism, colonization, religion, gender and sexual orientation, class, ageism, and ideology:

The course considered the existing power dynamics present in the built environment of the geopolitical, considering a variety of perspectives. Questions surrounding geopolitics and indigenous perspectives were discussed, though could have possibly been more present.

Pretty much this entire course is about critiquing imperialistic and/or colonial expansion.

The course revolved around the implications of colonialism and an entire lecture was dedicated to looking at an indigenous perspective.

Fig. Teaching evaluation for the elective seminar course at the UofT Daniels. (Lukas Pauer, *ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground*, University of Toronto Elective Seminar Course Teaching Evaluation, instructed by Lukas Pauer, 2022).

D AN IELS

U OF T

Fall 2022
GRADUATE THESIS RESEARCH STUDIO COURSE DESCRIPTION

COURSE CODE: ARC3020YF
COURSE TITLE: Design Studio Research I: Counterhegemonic Architecture
CLASS HOURS: Tue, 09:00-13:00h, 14:00-18:00h
INSTRUCTOR NAME: Lukas Pauer
INSTRUCTOR EMAIL: lukas.pauer@daniels.utoronto.ca

COURSE DESCRIPTION:



Fig 1. On 26 Jan, 1972, the national day of what is today known as Australia, the activists Michael Anderson, Tony Coorey, Billy Craigie, and Bertie Williams planted a beach umbrella by a tent on Capitol Hill in front of the Australian parliament in Canberra and declared it as the de facto representative diplomatic mission of the Indigenous local people to the ('White') people of Australia. (Noel Hazard, ON 161/675: *Tribune Negatives featuring the setting up of the Aboriginal Tent Embassy, 1972*, photograph, BjX3KJWq0pPX3, Mitchell Library, AU State Library of NSW, <http://collection.sl.nsw.gov.au/digital/BjX3KJWq0pPX3>).

This final year-long course sequence will support investigations on space and power in an effort to expose, challenge, and reconstitute the pervasive and ongoing reality of imperial-colonial expansion. This sequence will consist of a more directed seminar-style thesis prep research studio in the fall term and a more independent and self-directed thesis research studio in the winter term that will culminate in an individual final project. In the first term, we will collectively develop a better understanding of the role of built objects in current affairs to make sense of presently unfolding events that require urgency as well as to acquire tools and models for



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Fig. A scene from the Counterhegemonic Architecture thesis research studio course during its visit to the Canadian Centre for Architecture (CCA) in Montreal.

In the graduate architecture program, I supervise a group of final year students in a year-long thesis research studio course sequence supporting investigations on space and power in an effort to expose, challenge, and reconstitute the pervasive and ongoing reality of imperial-colonial expansion.

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*Program, Course, and Term:
MArch, ARC3020YF/ARC3021YS
Design Studio Research I/II: Coun-
terhegemonic Architecture, Fall 2022 /
Winter 2023*

Fig. Course outline for the thesis research studio course at the UofT Daniels. (Lukas Pauer, *ARC3020YF Design Studio Research I: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Outline, supervised by Lukas Pauer, 2022).



Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Liane Werdina, 'An Archive of Memories, Washed Away,' in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).



Fig. Ibid.

This project sought to protest on behalf of Indigenous Kurdish people of Hasankef and raise international awareness of how seemingly non-violent or innocuous Turkish infrastructure and natural resources have been instrumentalized to forcibly displace not only people themselves but to literally wash away their legacy, flora, and fauna in the region. The aim of this project was reflected in its output: a proposal for a pavilion at the upcoming international horticultural exposition.

Mimicking the Turkish government's past efforts to showcase hydroelectric power in the name of progress and sustainability on international occasions, the medium/format of the pavilion would renarrate the acts as well as collect and preserve objects related to the washing away of Kurdish culture; past and future.

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Fellow (stipendiary),
University of Toronto (UofT),
Daniels*

*Student and Project Title:
Liane Werdina, An Archive of Mem-
ories, Washed Away*

*Program, Course, and Term:
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Winter 2023*

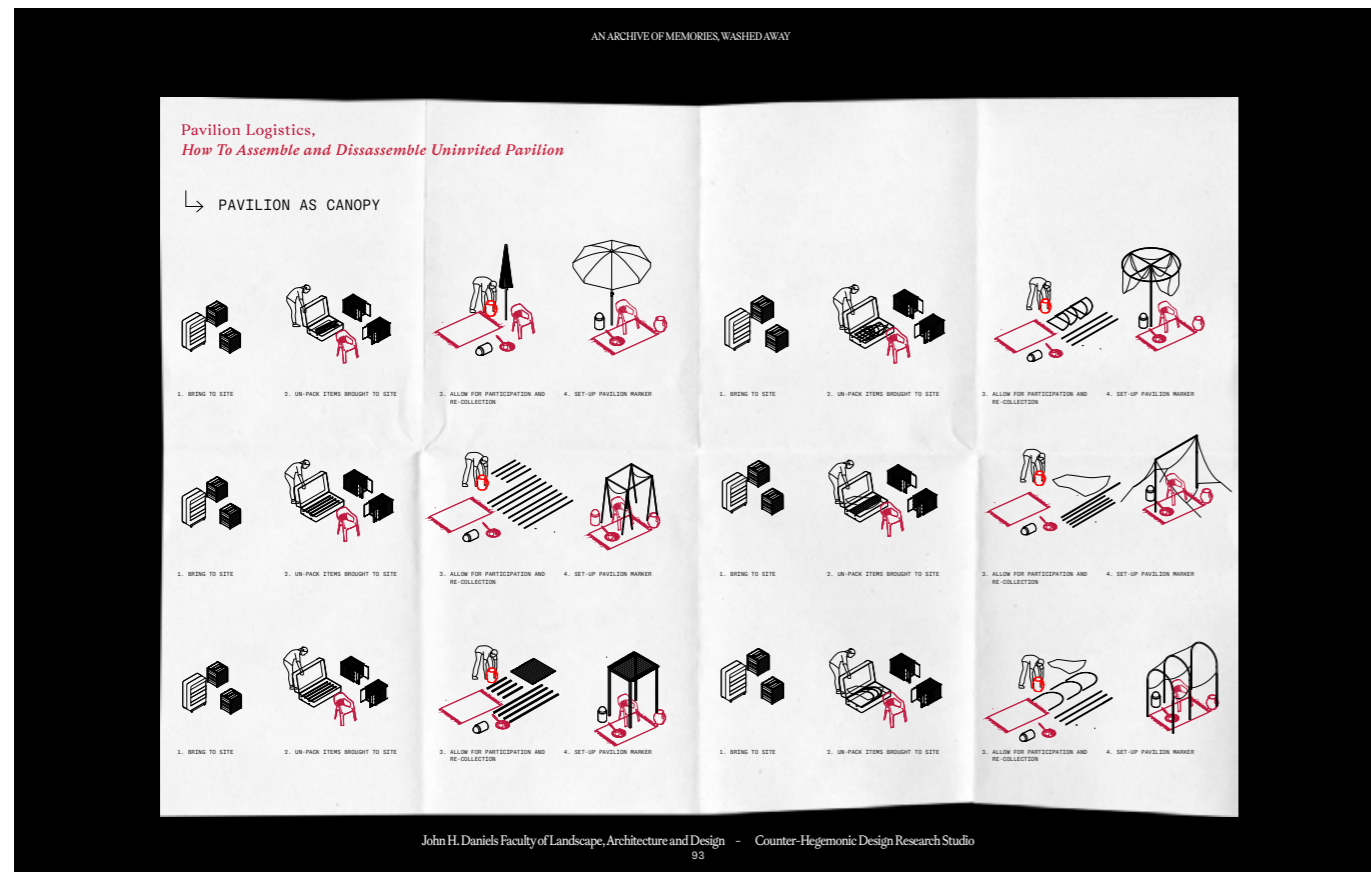


Fig. Ibid.



Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Liane Werdina, 'An Archive of Memories, Washed Away,' in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



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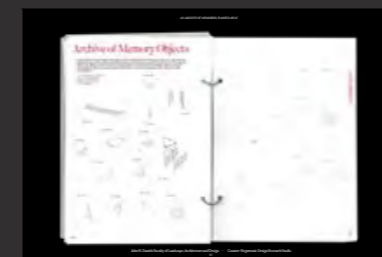


Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Bryson Wood, 'Forward Not Back, Reconsidering the Past in a Future Ukraine,' in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).

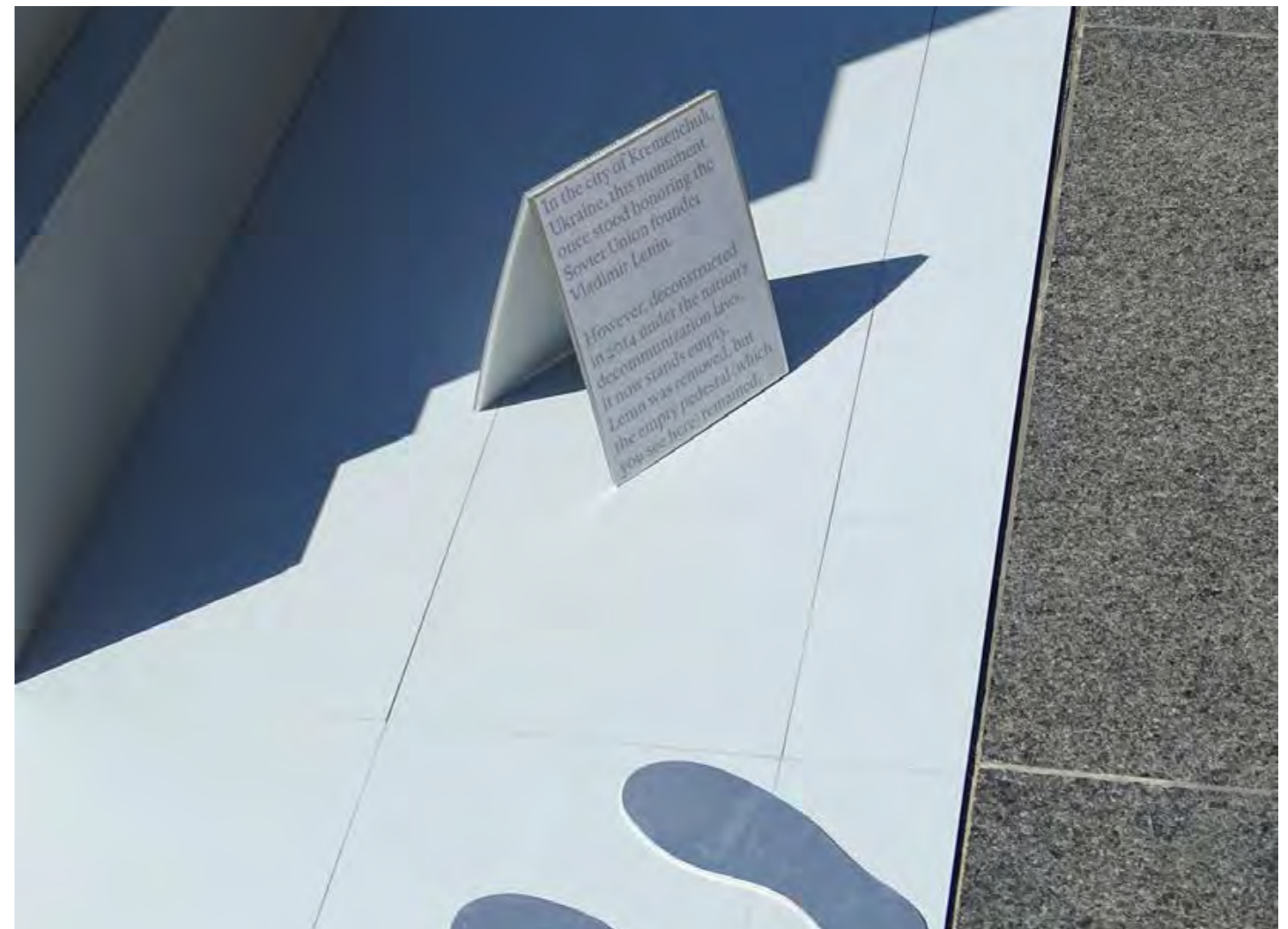


Fig. Ibid.

This project sought to educate people about the cyclical push-pull nature of countries seeking to actively control the physical manifestation and collective memory of their national identity and history; the physically and socially constructed nature and politics of what to remember or forget about a country's past. The aim of this project was reflected in its output: a proposal for a gallery's temporary exhibition.

The proposed exhibition featured a range of empty pedestals to prompt a conversation provoked by their materiality and emptiness, the latter of which would serve both a reminder of a violent past and present but also as a symbol of a possible future.

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Daniels*

*Student and Project Title:
Bryson Wood, Forward Not Back,
Reconsidering the Past in a Future
Ukraine*

*Program, Course, and Term:
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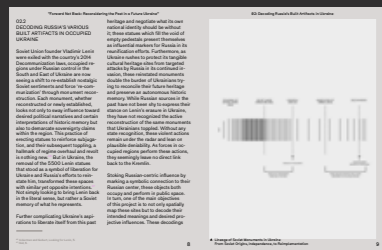


Fig. Ibid.



Fig. Ibid.



Fig. Ibid.

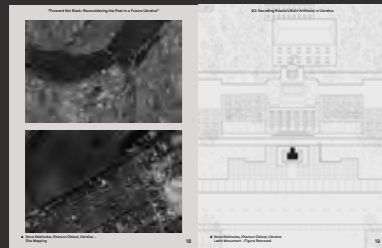


Fig. Ibid.



Fig. Ibid.

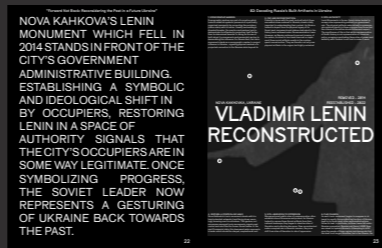


Fig. Ibid.



Fig. Ibid.



Fig. Ibid.

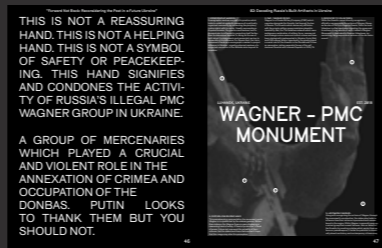


Fig. Ibid.

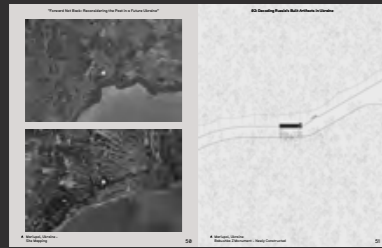


Fig. Ibid.



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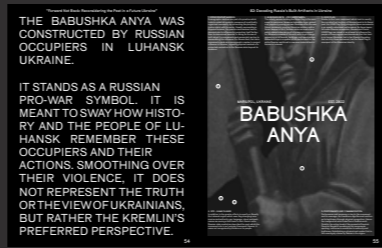


Fig. Ibid.



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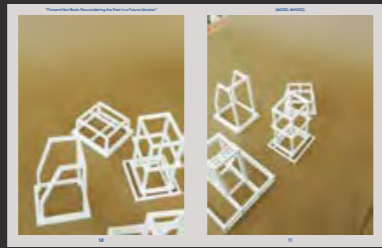


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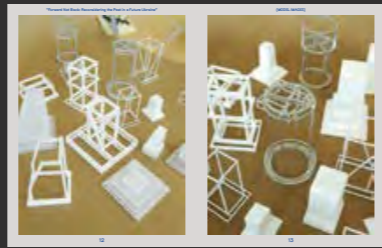
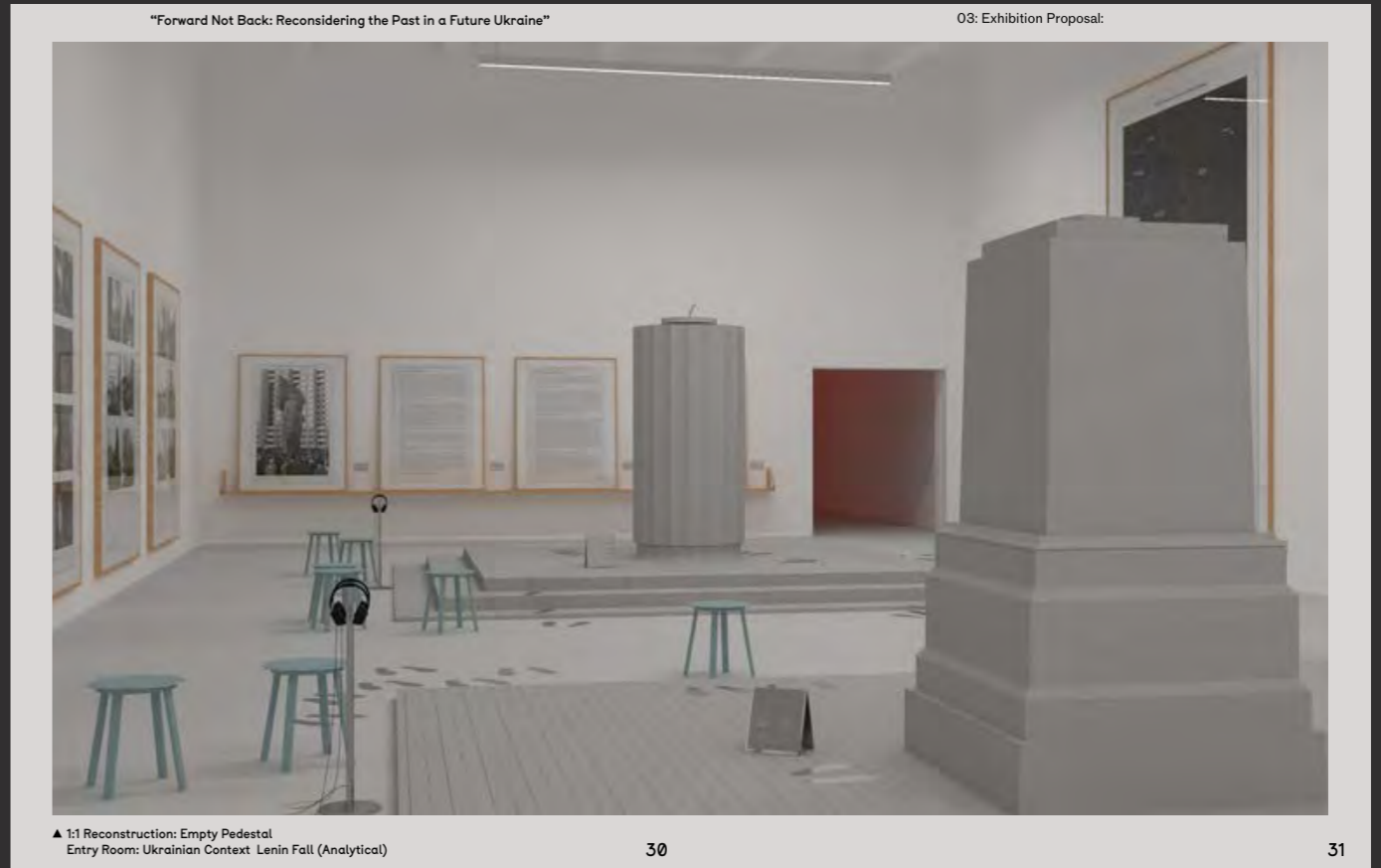
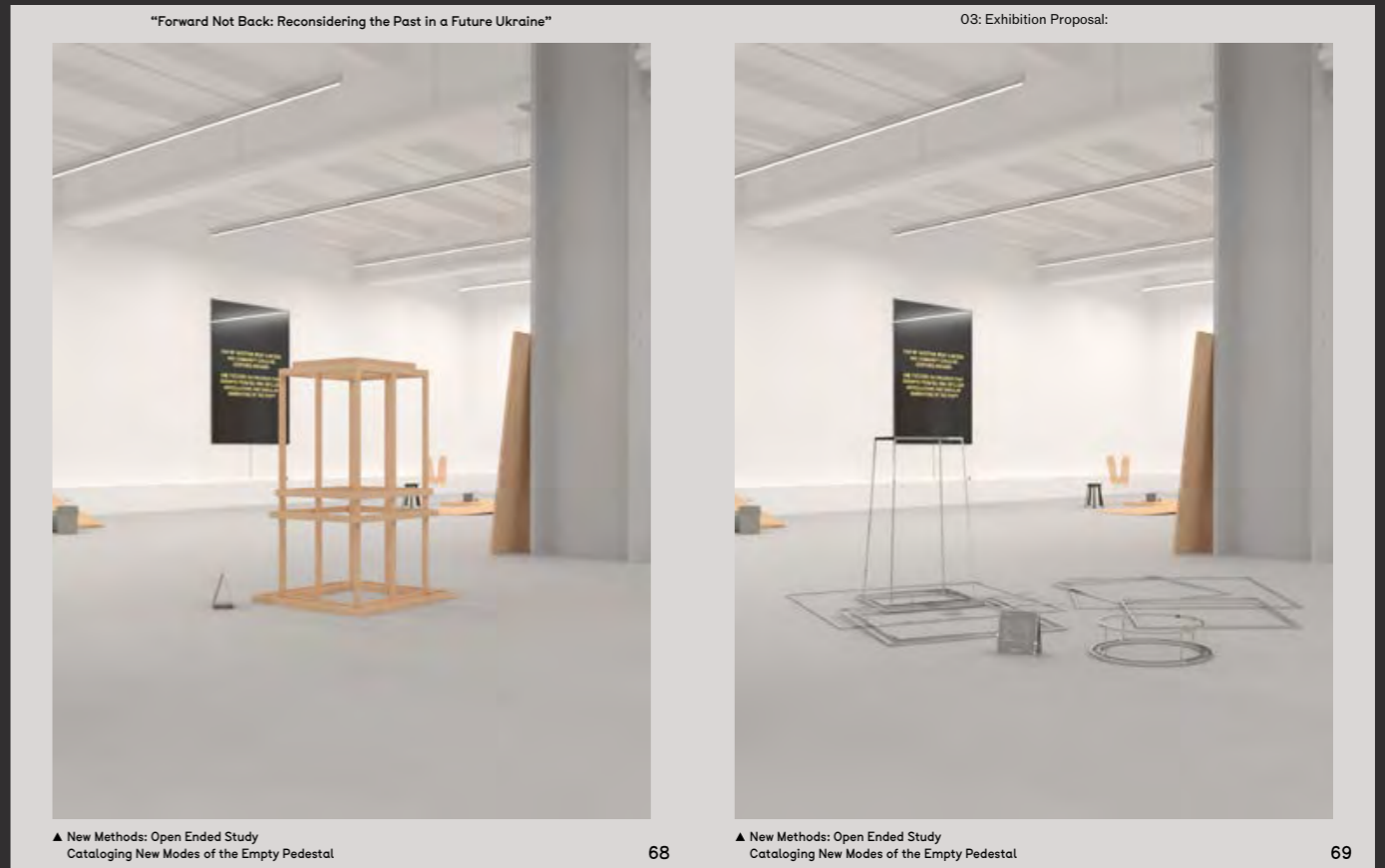


Fig. Ibid.



▲ 1:1 Reconstruction: Empty Pedestal
Entry Room: Ukrainian Context Lenin Fall (Analytical)

Fig. Ibid.



▲ New Methods: Open Ended Study
Cataloging New Modes of the Empty Pedestal

▲ New Methods: Open Ended Study
Cataloging New Modes of the Empty Pedestal

Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Bryson Wood, 'Forward Not Back, Reconsidering the Past in a Future Ukraine,' in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).



Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Farwa Mumtaz, 'Before the UAE there was the Dragon Blood Tree,' in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).

CARD DECK

A shared card deck consists of at least 40 custom designed cards that reflect the timeline of events in the case study. Additional cards were designed for the Visitor and Conservation Coalition parties as well.



Fig. Ibid.

This project sought to expose the growing presence of UAE on the Yemeni Socotra Archipelago. The aim of this project was reflected in its output: a tabletop game.

Just as concealed as the seemingly non-violent or innocuous built objects exposed in this project as instruments of occupation, the social, spatial, and tactile medium/format of the tabletop game exposed the imperial-colonial playbook of UAE and prompt a conversation on reactions, responses, and possible long-term plans for the archipelago among players of this game and beyond.

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*Student and Project Title:
Farwa Mumtaz, Before the UAE
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*Program, Course, and Term:
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Fig. Ibid.

PROJECT TAXONOMY

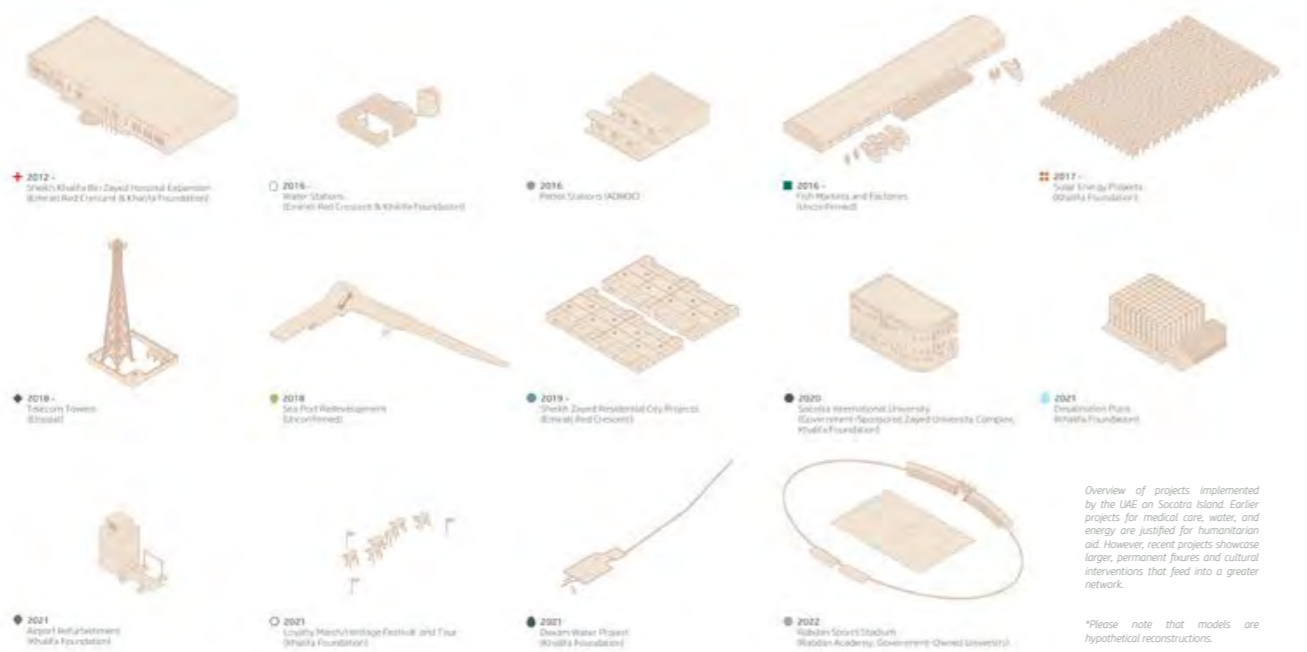


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Fig. Ibid.



Fig. Ibid.



Fig. Ibid.



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Fig. Ibid.



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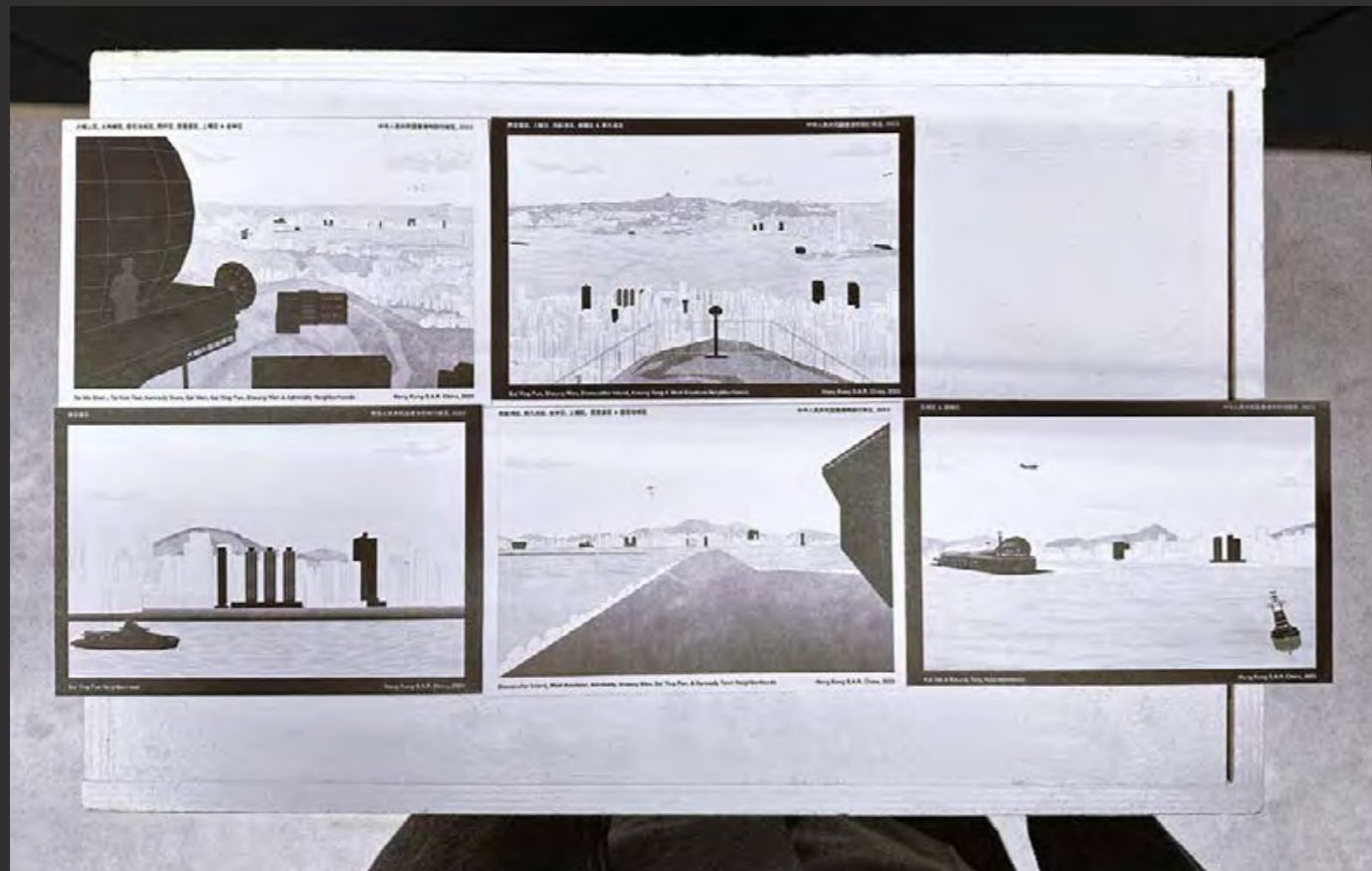


Fig. Ibid.



Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Tai-Man Chan, 'Mainlandization of the City with 18 Districts,' in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).

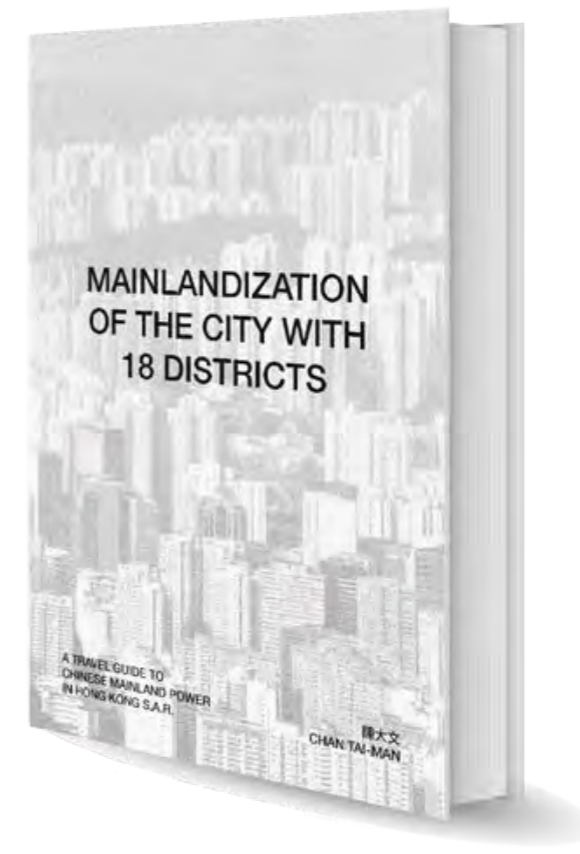


Fig. Ibid.

Based on the hypothesis that people would not have to travel beyond Hong Kong to see the presence of Mainland Chinese power, this project sought to educate residents of Hong Kong about the transformations within their own city, often below the threshold of consciousness. The aim of this project was reflected in its output: a field and travel guide.

Mimicking the Mainland Chinese government's planned mainland study tours closer to home, the medium/format of the guide provided residents of Hong Kong with new ways of seeing, rereading, and decoding how their surrounding built environment has been a vehicle for the projection of growing Chinese Mainland power within their city.

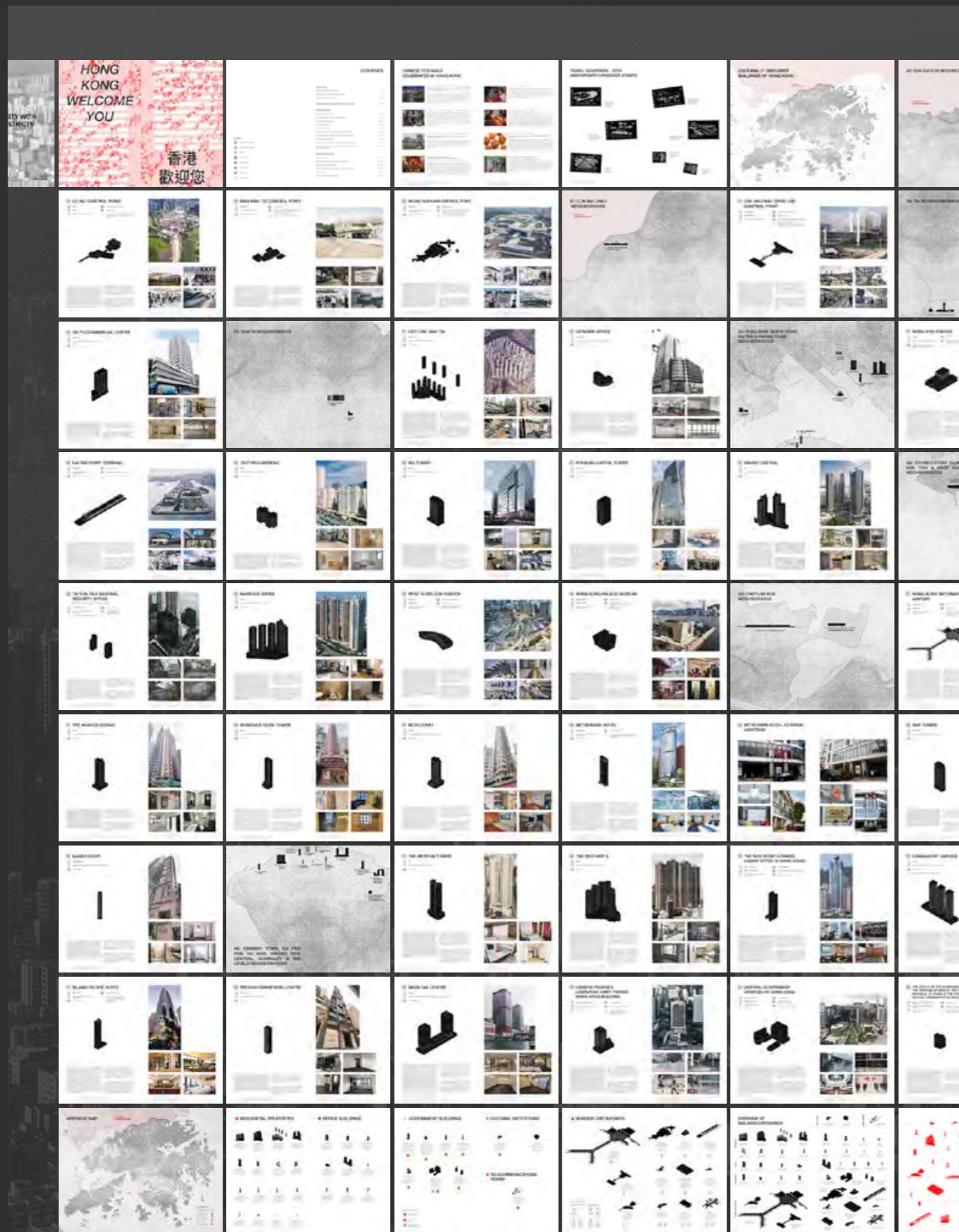
*Studio-Based
Thesis Supervision
in Architecture*

*Supervisor:
Lukas Pauer*

*Job Title and Affiliation:
Assistant Professor of Architecture
(non-tenure-tracked), Inaugural
2022-2024 Emerging Architect
Fellow (stipendiary),
University of Toronto (UofT),
Daniels*

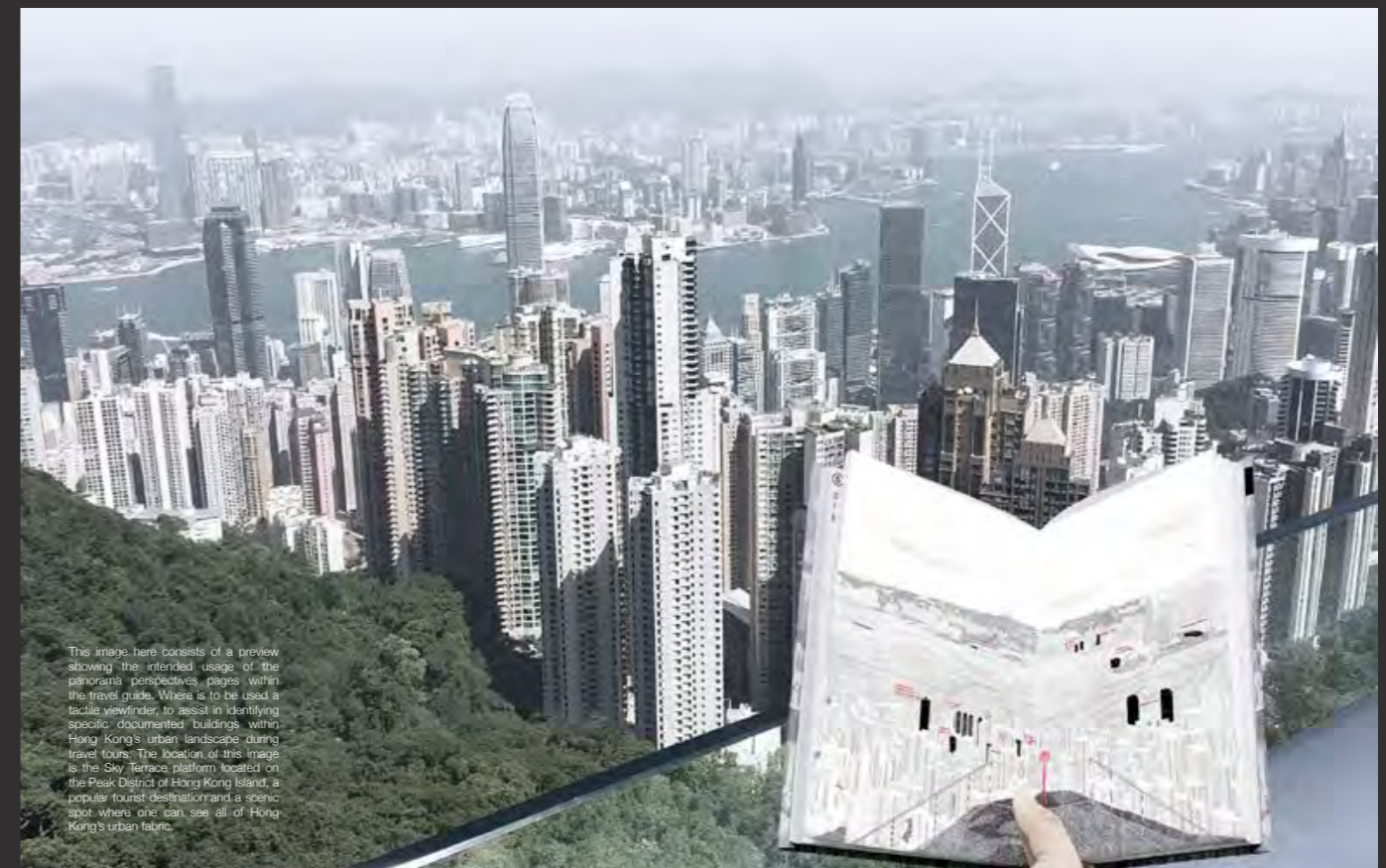
*Student and Project Title:
Tai-Man Chan, Mainlandization of
the City with 18 Districts*

*Program, Course, and Term:
MArch, ARC3020YF/ARC3021YS
Design Studio Research VII: Coun-
terhegemonic Architecture, Fall 2022 /
Winter 2023*



Overall Pages within Travel Guidebook

Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Tai-Man Chan, 'Mainlandization of the City with 18 Districts,' in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).



This image here consists of a preview showing the intended usage of the panorama perspectives pages within the travel guide. Where is to be used as a tactile viewfinder to assist in identifying specific documented buildings within Hong Kong's urban landscape during travel tours. The location of this image is the Sky Terrace platform located on the Peak District of Hong Kong Island, a popular tourist destination and a scenic spot where one can see all of Hong Kong's urban fabric.

Fig. Ibid.

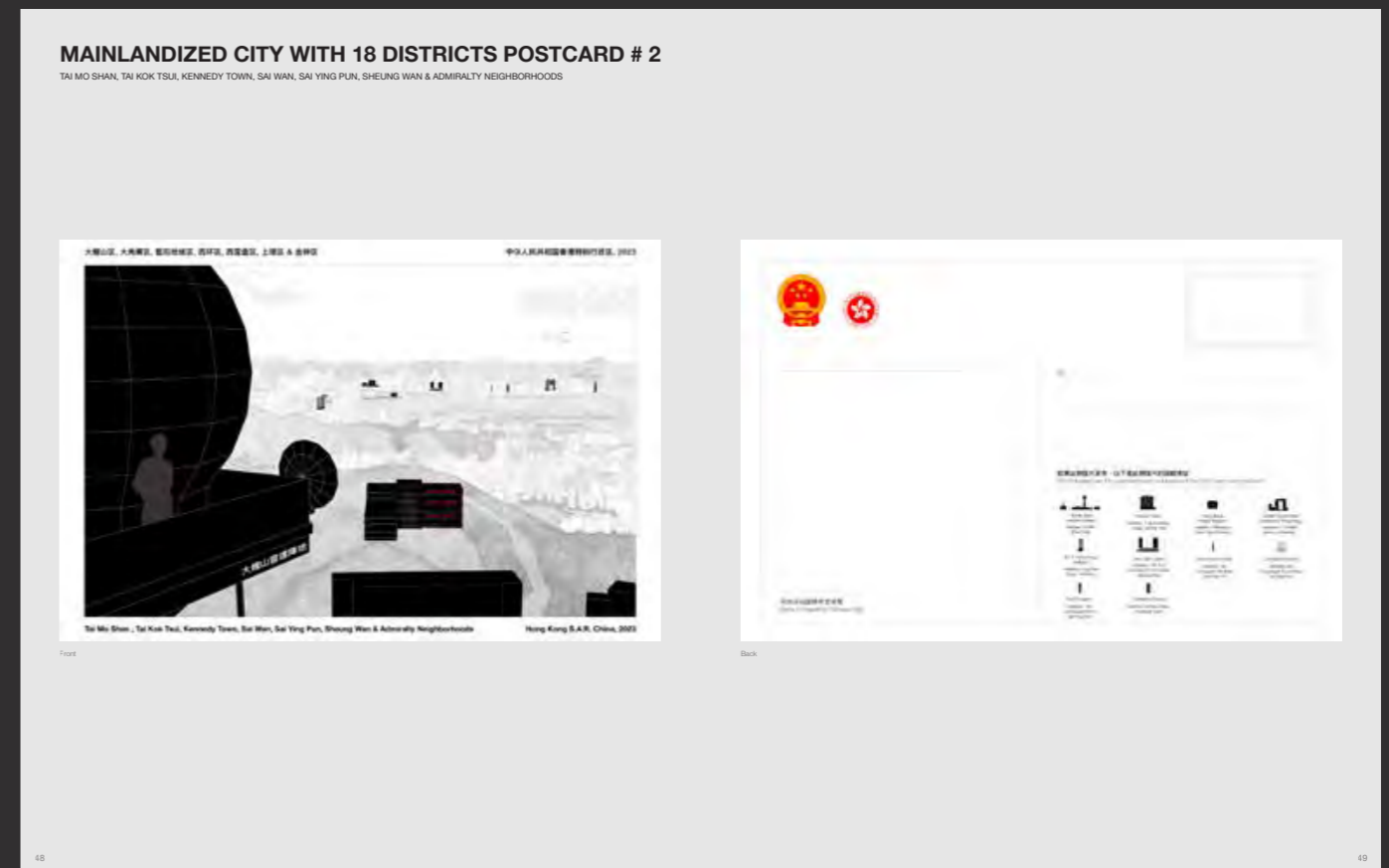


Fig. Ibid.



Fig. Ibid.



Fig. Ibid.

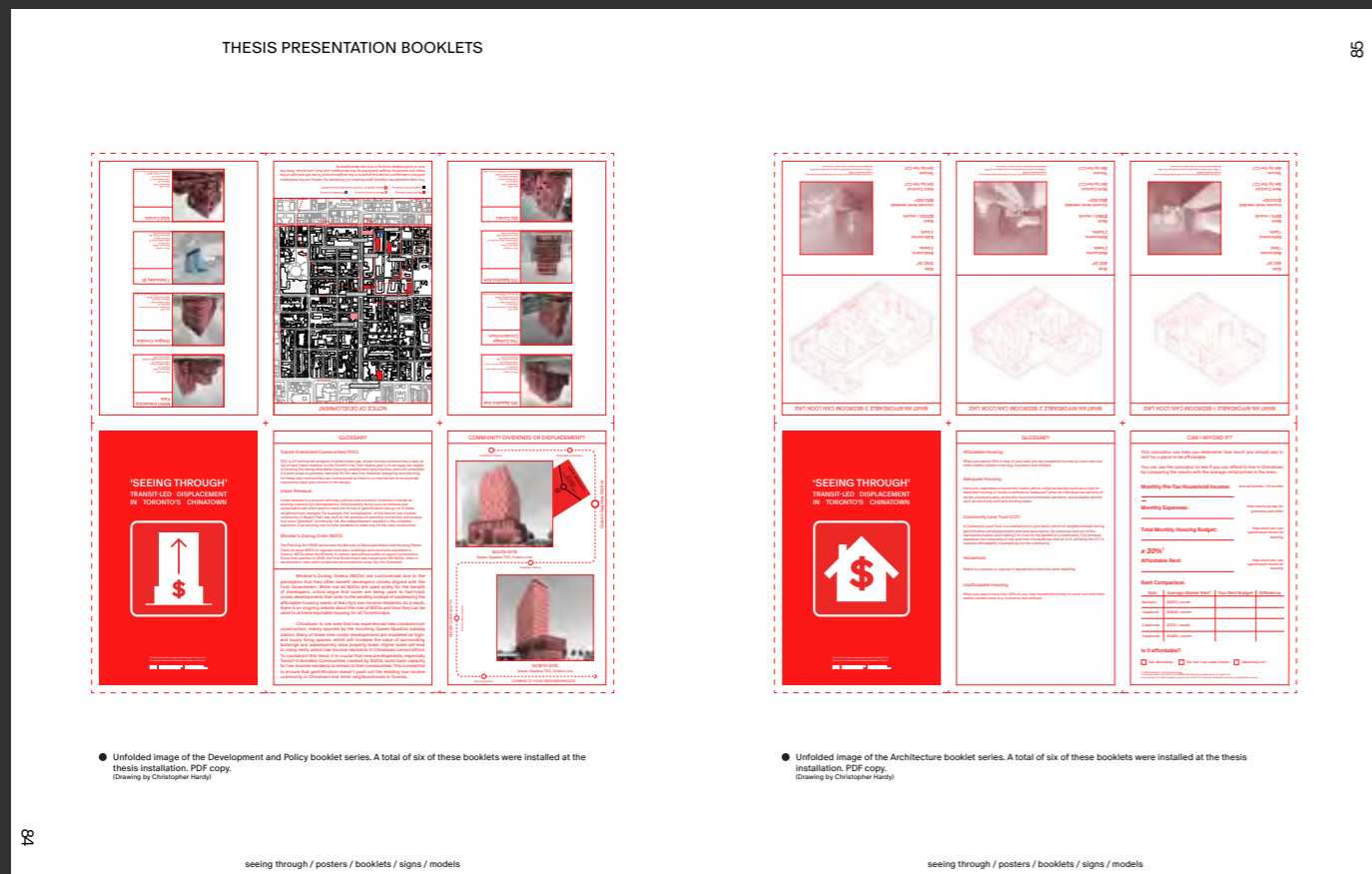


Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Christopher 'Chris' Hardy, "Seeing through" Transit-led Displacement in Toronto's Chinatown," in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).

This project sought to empower low-income people of Toronto Chinatown in their ability to negotiate with economists, urban planners, urban developers, real estate agents, landlords, and other actors responsible for or complicit in the disappearance of their affordable housing and essential businesses. The aim of this project was reflected in its two-part output: a proposal for a mixed-use high-rise building and an accompanying professional practice manual.

The proposed building would include relevant community land trusts in the planning and design of a comprehensive development featuring affordable housing and third spaces on top of the new subway station. The accompanying manual helped people of Toronto Chinatown become fluent in the language of the real estate-industrial complex by explaining, decoding, and really translating the

often inaccessible, obscure, and violent workings of municipal planning policies, financial proformas, business partnership proposals, architectural drawings, and outreach marketing campaigns for people to be able to rationalize the feasibility of their subversive efforts. This was to counter the logic of real estate for social benefit, for an equitable future.

Studio-Based Thesis Supervision in Architecture

Supervisor: Lukas Pauer

Job Title and Affiliation: Assistant Professor of Architecture (non-tenure-tracked), Inaugural 2022-2024 Emerging Architect Fellow (stipendiary), University of Toronto (UofT), Daniels

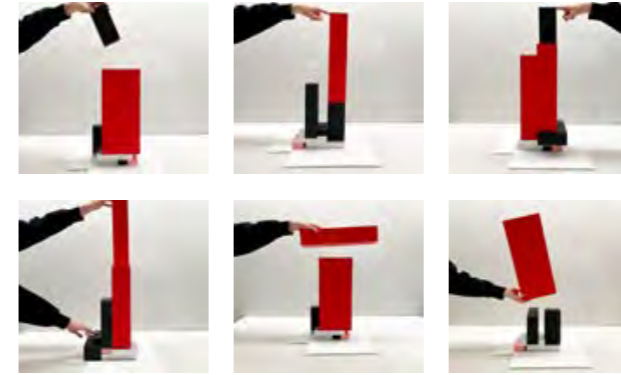
Student and Project Title: Christopher 'Chris' Hardy, 'Seeing through' Transit-led Displacement in Toronto's Chinatown

Program, Course, and Term: MArch, ARC3020YF/ARC3021YS Design Studio Research I/II: Counterhegemonic Architecture, Fall 2022 / Winter 2023



Fig. Student work sample from the final thesis submitted as part of the thesis research studio course at the UofT Daniels. (Christopher 'Chris' Hardy, "Seeing through" Transit-led Displacement in Toronto's Chinatown," in *ARC3021YS Design Studio Research II: Counterhegemonic Architecture*, University of Toronto Thesis Research Studio Course Student Work, supervised by Lukas Pauer, 2023).

THE VEHICLE



TOWER STUDY
 HOW TO DESIGN FOR MIXED-USE?



Photo of the speculative spatial modeling kit with Queen-Spadina Ontario Line station base

- Market-rate housing
- Market retail
- Affordable housing
- Subway station

48

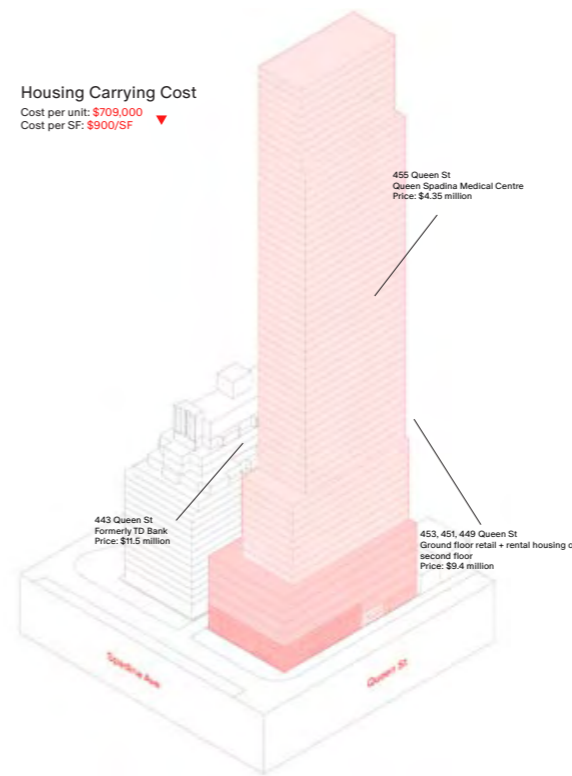
seeing through / real estate / planning / finances

seeing through / real estate / planning / finances

Fig. Ibid.

THE VEHICLE

Housing Carrying Cost
 Cost per unit: \$709,000
 Cost per SF: \$900/SF



seeing through / real estate / planning / finances

49

Fig. Ibid.

42

45

PROJECT SOURCES	% of total	Total
Developer Equity	25%	\$ 111,694,855
CMHC Financing	37%	\$ 166,433,981
Total Project Sources		\$ 278,128,836
Surplus / shortfall		-\$168,650,564

PROJECT USES	% of total	Total
Land Costs	6%	\$ 25,293,410
Hard Costs	66%	\$ 250,513,487
Soft Costs	14%	\$ 92,628,372
Municipal Fees	6%	\$ 25,361,555
Contingencies	11%	\$ 46,971,279
Tax	8%	\$ 36,011,314
Total Project Cost	100%	\$ 446,779,420
Cost per Unit		\$ 709,174
Cost per SF		\$ 893

Estimate Sale Revenue	Total
Condo Sale	\$443,898,000

Estimate Residential Revenue	Total
Affordable Rental (30% BARR)	\$ 4,598,090
Less Vacancy Rate (2%)	\$ (91,962)
Effective Gross Income	\$ 4,506,128
Less Operating Expenses (30% of Revenue)	\$ 1,351,839
Net Residential Revenue	\$ 3,246,252
Cap Rate	CBRE Q4 2022 4.25%
Estimate Market Value	\$ 76,382,394

Estimate Commercial Revenue	Total
Commercial Rental	\$ 5,308,971
Less Vacancy Rate (1.7%)	\$ (90,253)
Net Commercial Revenue	\$ 5,218,718

Annual Debt Service	Total
Principal	Based on DSCR \$ 166,433,981
Interest Rate	CMHC - NHCF 3.5%
Amortization Period	CMHC - NHCF 50
Term	CMHC - NHCF 10
Annual Mortgage Payment	\$ 7,854,142

Financial Feasibility	Total
Total Net Operating Income	\$ 8,464,970
Annual Debt Service	\$ (7,054,142)
Total Cash After Financing	\$ 1,410,828
Debt Service Coverage Ratio (DSCR)	NOI/debt service 1.20

seeing through / real estate / planning / finances

DANIELS U OF T

Winter 2023
GRADUATE THESIS RESEARCH STUDIO COURSE TRAVEL SEMINAR OUTLINE

COURSE CODE: ARC3021YS
COURSE TITLE: Design Studio Research II: Counterhegemonic Architecture
CLASSROOM LOCATION: DA Graduate Studio (DA 370)
CLASS HOURS: Tue, 09:00-13:00h, 14:00-18:00h
INSTRUCTOR NAME: Lukas Pauer
INSTRUCTOR EMAIL: lukas.pauer@daniels.utoronto.ca

CCA PUBLIC PROGRAMS POINT OF CONTACT: Alexandra Lyn alyn@cca.qc.ca
CCA COLLECTION POINT OF CONTACT: Gwen Mayhew gmayhew@cca.qc.ca
CCA DIGITAL AND OUTREACH ON-CALL TECHNICIAN: Jim Bell jbell@cca.qc.ca

TRAVEL SEMINAR DESCRIPTION:

Outside of class hours and in the format of a travel seminar, we will travel to Montreal, where you will be able to critically engage with the pervasive and ongoing reality of imperial-colonial expansion in the case of Montreal, in partnership with local contacts including staff at the Canadian Centre for Architecture (CCA), a museum, repository, and research and learning center operating from the fundamental premise that architecture is a public concern. During this short-break retreat in Montreal, you will be able to retrieve materials from the CCA Collection, gather around your individual selections, and present parts of your in-progress design research projects for feedback from CCA staff and local guest critics. Participation in this trip is encouraged but optional. Students with financial difficulty may apply for financial support from UofT.

Before the trip:

Your other course and elective course instructors are aware that students may be absent due to thesis research studio course-related travel. Further, the suggested travel period does not fall onto the Professional Practice core course submissions due on Fri, 3 Mar and Fri, 31 Mar. However, please also individually make sure that it does not fall onto any mandatory days of examination such as presentation forums of any other courses.

Although CCA Collection Reference staff and your instructor could make suggestions based on your individual interests, please first browse through the CCA Collection Archive Catalog Search (<http://www.cca.qc.ca/en/search>), its Holdings Guide (<http://www.cca.qc.ca/en/archives>), or the CCA Collection Library Catalog Search (<http://cca.on.worldcat.org/>) and make a list of specific materials you intend to request and send it to your instructor and CCA Collection Reference staff (ref@cca.qc.ca) by Tue, 7 Mar. You should limit your individual request to around two to three archival containers. Due to some materials in the collection's offsite storage facility not being available on short notice, the request deadline is set to two weeks before the trip. Meanwhile, if you cannot find what you are looking for, or if you need additional suggestions, please get in touch with specific questions.

Depending on how you choose to travel to where you will stay in Montreal, in order for us to have more opportunities for get-togethers, it is suggested for you to arrive the day before and to



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Toronto, ON M5S 2J5
Canada
416-978-5038



Fig. A scene from the Counterhegemonic Architecture thesis research studio course during its visit to the Canadian Centre for Architecture (CCA) in Montreal.

In the context of my graduate thesis research studio course sequence, and in partnership with local contacts including staff at the Canadian Centre for Architecture (CCA), I organized a travel seminar to Montreal, where my students were able to critically engage with the pervasive and ongoing reality of imperial-colonial expansion in the case of Montreal. This included engagements with Indigenous local knowledge keepers including Assc Prof Kahente Horn-Miller (Carleton FASS SICS).

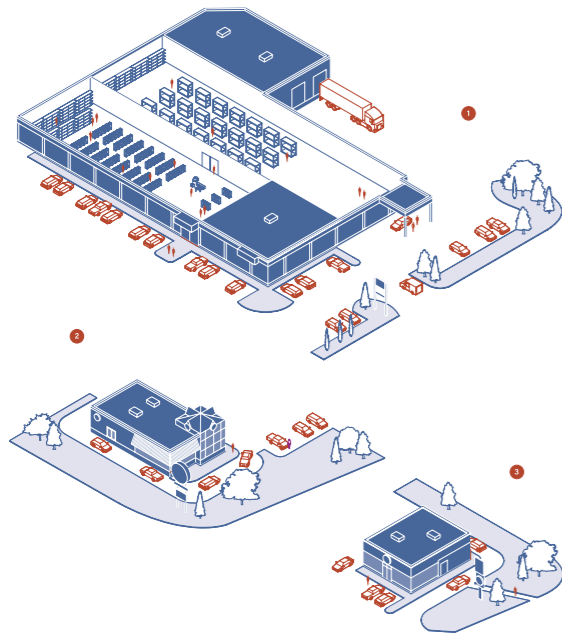
*Studio-Based
Thesis Supervision
in Architecture*

*Supervisor:
Lukas Pauer*

*Job Title and Affiliation:
Assistant Professor of Architecture
(non-tenure-tracked), Inaugural
2022-2024 Emerging Architect
Fellow (stipendiary),
University of Toronto (UofT),
Daniels*

*Program, Course, and Term:
MArch, ARC3020YF/ARC3021YS
Design Studio Research III: Coun-
terhegemonic Architecture, Fall 2022 /
Winter 2023*

F3.03 Shopping Plaza Typologies



01 The Goodwill Donation & Employment Center acts as a community hub within the larger plaza. Near the entrance is a bulletin board with postings for job opportunities. The center's slogan reads "changing lives and communities through the power of work."

02 Burger King is by far the busiest restaurant in the plaza, with a larger complex and longer drive-through.

03 A newly opened Starbucks hosts a work meeting, as well as a considerable number of both dine-in and drive-through patrons.

As the market transitions toward electromobility, Canadian manufacturing cities in Southern Ontario are experiencing a period of uncertainty accompanied by significant population growth. Where many approaches provide a broad overview of regional changes and industrial capacity, this project contributed to the existing discourse by focusing on perceived conditions in the built environment. Developing a multiscalar, mixed-media approach, this study investigated spaces of physical transition surrounding large automotive plants during this critical point of transformation.

as is common with many post-industrial conversions and brownfield redevelopments. Since the city's launch of the brownfield community improvement plans in 2010, it has seen a number of similar infill projects, often converting former industrial land into residential or commercial development. While economic programs provide an incentive for reuse, new developments may avoid such sites due to unforeseen complications that may arise during remediation processes.³

Notes

1 In Baird & Myers' 1978 articulation of *Vacant Lottery*, the pair describe a growing pattern of consolidating lots, resulting in the creation of larger land parcels, more vacant space, and fewer pedestrian amenities. While this theory primarily addressed residential development, its speculations on the assembly of lots and propositions for more efficient land through infill use may also be considered for industrial cases such as McDougall, where vacant space around large buildings is either used for parking or void.

2 Mary Caton, "Tender Goes out for Newly Named James L. Dunn Public School," *The Windsor Star*, February 19, 2020. <https://windsorstar.com/news/local-news/its-a-dunn-deal-tender-goes-out-for-newly-named-james-l-dunn-public-school/>.

3 Many of these insights are owed to conversations with the city's policy planners, who were kind enough to meet with me and discuss the City's programs and position on brownfield remediation and industrial investment.



One of many abandoned industrial lots along McDougall Street, 2023 / Photo by Author

*Independent Study
Supervision
in Architectural Studies*

*First Supervisor:
Lukas Pauer*

*Second Supervisor:
Roberto Damiani*

*Job Title and Affiliation:
Assistant Professor of Architecture
(non-tenure-tracked), Inaugural
2022-2024 Emerging Architect
Fellow (stipendiary),
University of Toronto (UofT),
Daniels*

*Student and Project Title:
Emma Hwang, Between the Factory
and the City*

*Program, Course, and Term:
BA AS, Laidlaw Scholars Program,
Summer 2023*

BETWEEN THE FACTORY & THE CITY

Liminal Spaces of the Automotive Plant

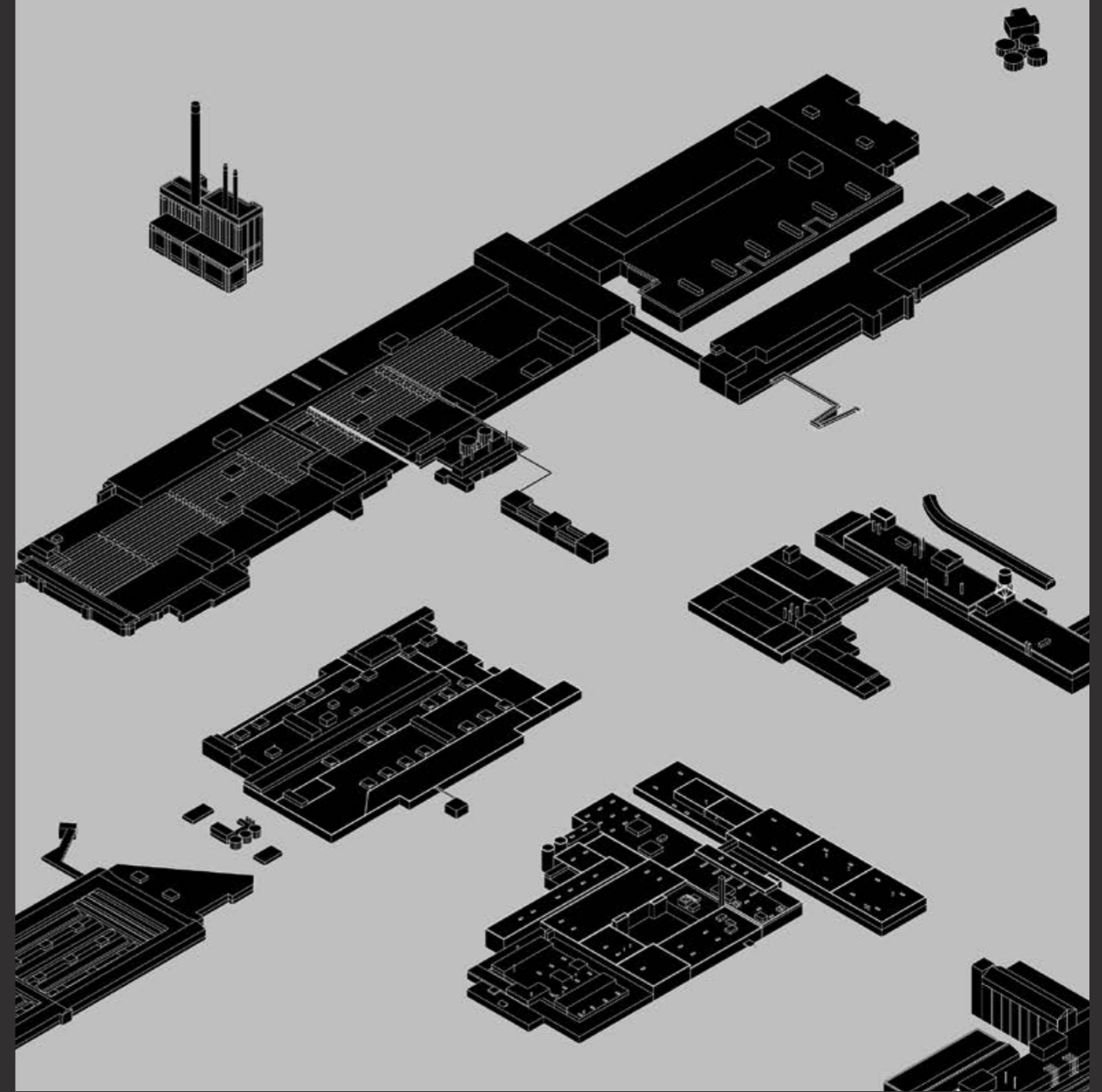


Fig. Teaching evaluation for the elective seminar course at the UofT Daniels. (Lukas Pauer, *ARC3710HS Selected Topics in Architecture: Recognizing Facts on the Ground*, University of Toronto Elective Seminar Course Teaching Evaluation, instructed by Lukas Pauer, 2022).

DANIELS U OF T

Winter 2023
UNDERGRADUATE CORE LECTURE COURSE OUTLINE

COURSE CODE: ARC253H1S
COURSE TITLE: Close Readings in Urban Design
PREREQUISITE COURSES: ARC132H1 / JAV132H1 / JAV152H1
CLASSROOM LOCATION: DA Main Hall (DA 170)
CLASS HOURS: Mon, 13:00-16:00h
INSTRUCTOR NAME: Lukas Pauer
INSTRUCTOR EMAIL: lukas.pauer@daniels.utoronto.ca
OFFICE HOURS: Wed, 15:30-18:00h
OFFICE LOCATION: DA 222
QUERCUS: <http://q.utoronto.ca/courses/288772>

TAs: Meimenat 'Mei' Cheng meimenat.chen@mail.utoronto.ca
Samantha 'Sam' Dauphinais samantha.dauphinais@mail.utoronto.ca
Olivia Loncar-Bartolini olivia.bartolini@mail.utoronto.ca
Caleigh MacDonald caleigh.macdonald@mail.utoronto.ca
Negar Mashoof negar.mashoof@mail.utoronto.ca
Aastha Saihgal aastha.saihgal@mail.utoronto.ca

COURSE DESCRIPTION:

This course will provide a forum for discussion on the recent history of urban design and urbanism; the practice and study of how people engage with the city. Students will closely examine artefacts in specific contexts, both written works and (un)built objects, as case studies of how the built environment has shaped and has been shaped by the exercise of power. Central to the students' ability to engage with the course contents will be the understanding of public space as 'public' only to those who are politically represented and organized.

This course is not an introductory survey of urban design history and theory. It also does not offer a series of definitive axioms about what makes best practice in urban design. Rather, this course will provide entry points to a series of controversial and unsettled discussions in the study and practice of how people engage with the city. The realization of large-scale design projects is contingent on a compelling verbal and visual rationale to secure the necessary political commitment, capital investment, and public support. Without a convincing argument for why something should be done, a project does not stand a chance to be realized. The context and controversy of a specific written work or (un)built object in urban design often manifests as entanglement between design, culture, politics, economics, and ecology, and resists a reductive summary. Such an approach to urban design and urbanism focuses on ideological questions and positions. Through this approach, each week of this course will examine multiple perspectives within a specific discussion, occasionally competing, in order for students to be able to confront the complex pluralities at work in the discourse on the contemporary city. The aim of this approach is for students to develop a set of techniques for critical inquiry that will allow them to become more perceptive but also more engaged and effective designers and urbanists as they establish their own set of priorities and values.

By foregrounding questions of publicness and sovereignty, this course will specifically focus on how open and inclusive urban conditions are fostered or denied. This is based on the belief that the city is for the people and that the role of the urban designer is to shape public space. However, this public mandate is not always clear as the urban designer is often employed by



1 Spadina Cres.
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416-978-5038



Fig. A scene from the Close Readings in Urban Design lecture course at the UofT Daniels.

In the undergraduate architectural studies program, I teach a near 300-student core lecture course in which the understanding of public space as 'public' only to those who are politically represented and organized is central to it.

*History/Theory Lecture
Course in Urban Design*

*Instructor:
Lukas Pauer*

*Job Title and Affiliation:
Assistant Professor of Architecture,
Emerging Architect Fellow,
University of Toronto (UofT),
Daniels*

*Program, Course, and Term:
BAAS, ARC253H1S Close Readings
in Urban Design, Winter 2023*

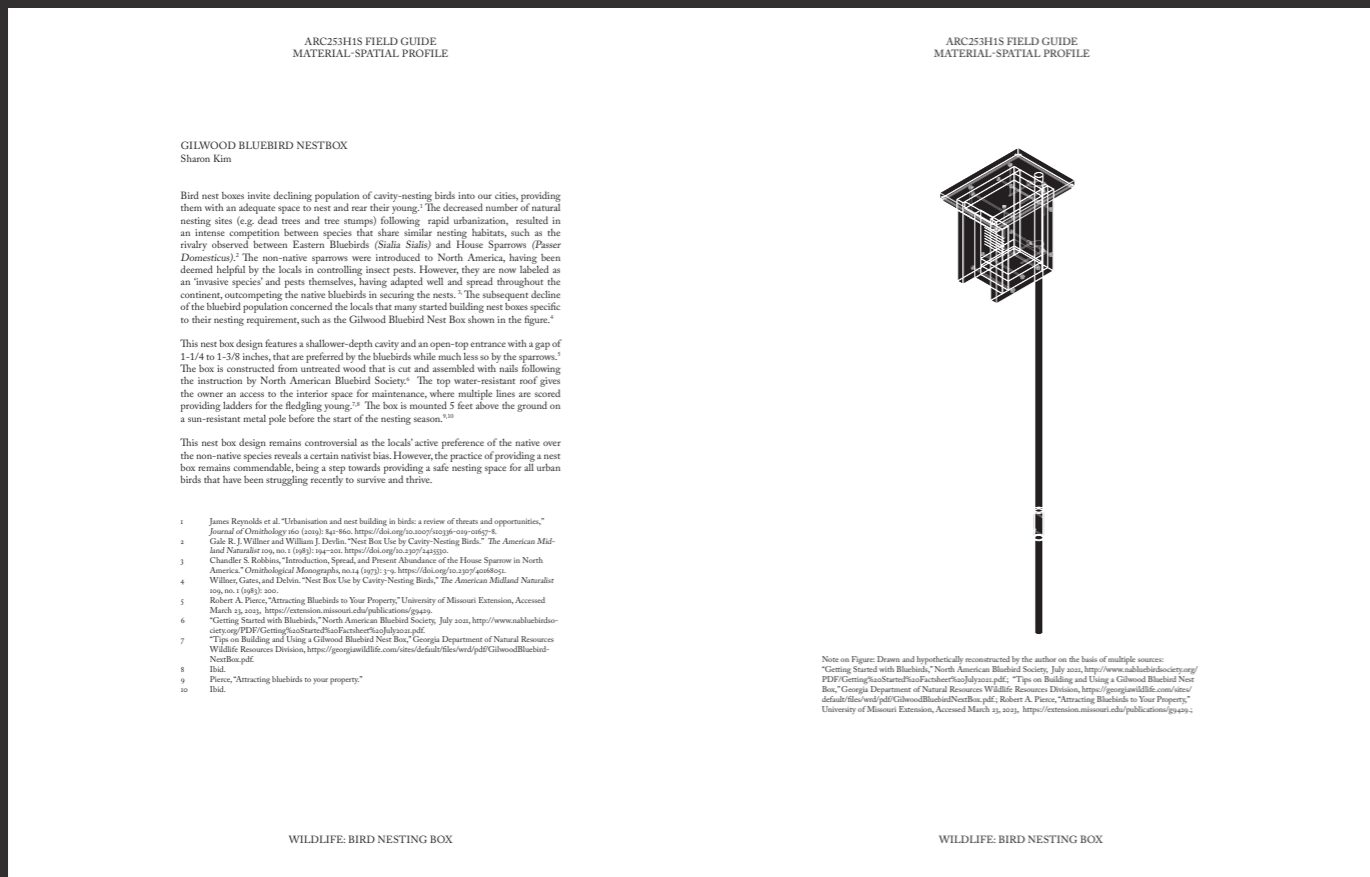


Fig. Student work sample from a project assignment submitted as part of the lecture course at the UofT Daniels. (Sharon Kim, 'Bird Nesting Box,' in *ARC253H1S Close Readings in Urban Design*, University of Toronto Lecture Course Student Work, instructed by Lukas Pauer, 2023).

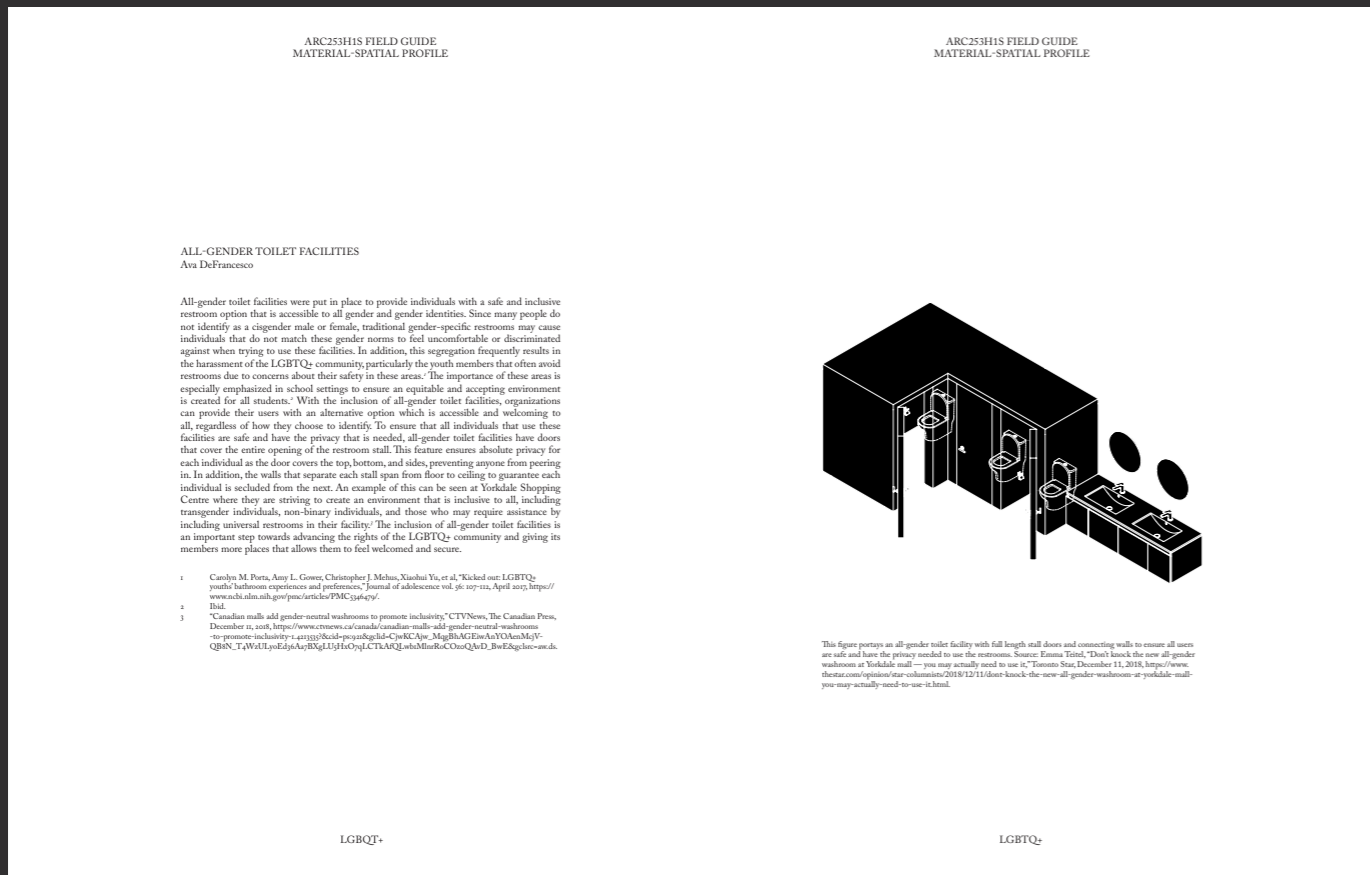


Fig. Student work sample from a project assignment submitted as part of the lecture course at the UofT Daniels. (Ava De Francesco, 'All-Gender Toilet Facilities,' in *ARC253H1S Close Readings in Urban Design*, University of Toronto Lecture Course Student Work, instructed by Lukas Pauer, 2023).



Fig. Ibid.

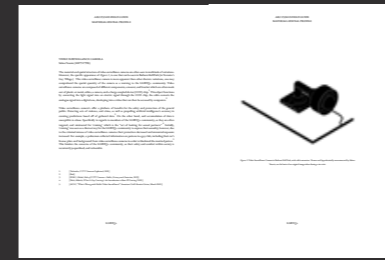


Fig. Ibid.

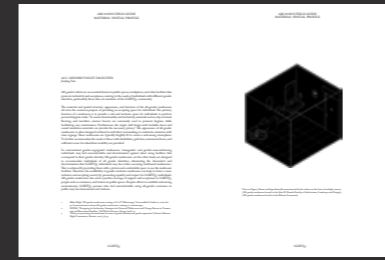


Fig. Ibid.



Fig. Ibid.



Fig. Ibid.

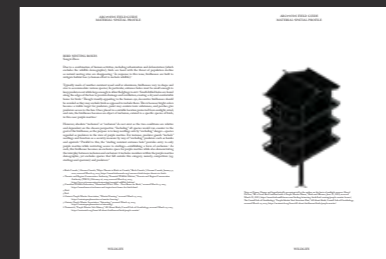


Fig. Ibid.

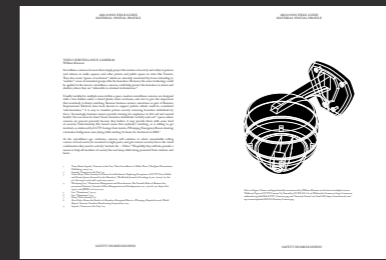


Fig. Ibid.



Fig. Ibid.

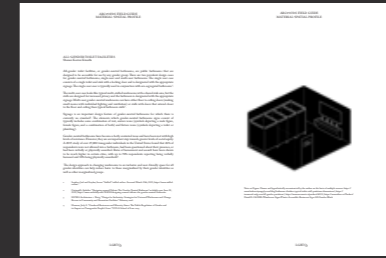


Fig. Ibid.

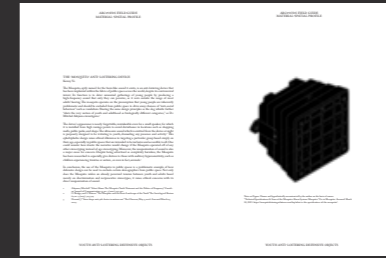


Fig. Ibid.

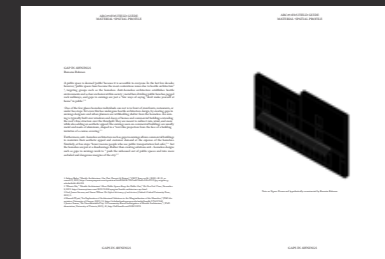


Fig. Ibid.



Fig. Ibid.

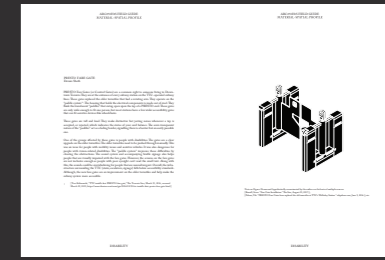


Fig. Ibid.



Fig. Ibid.

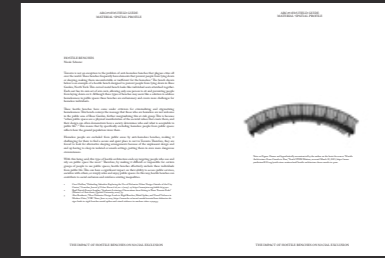


Fig. Ibid.



Fig. A scene from the Close Readings in Urban Design lecture course at the UofT Daniels.

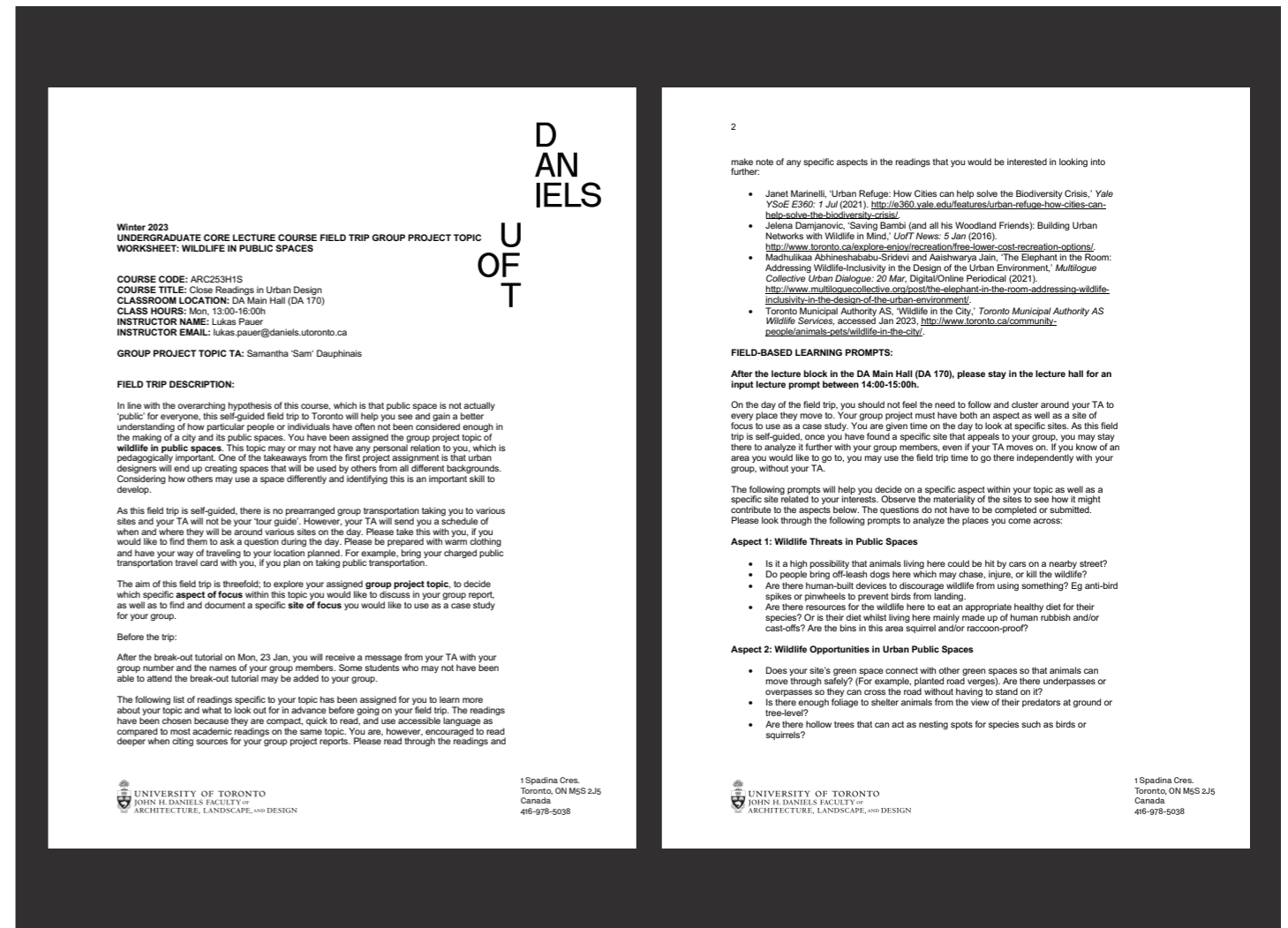


Fig. Field trip outline for the lecture course at the UofT Daniels. (Lukas Pauer, *ARC253H1S Close Readings in Urban Design*, University of Toronto Lecture Course Field Trip Outline, instructed by Lukas Pauer, 2023).

In the context of my near-300-student undergraduate core lecture course and in line with the overarching hypothesis of this course, which was that public space is not actually ‘public’ for everyone, I organized a self-guided field trip around Toronto that helped my students see and gain a better understanding of how particular groups or individuals have often not been considered enough in the making of a city and its public spaces.

History/Theory Lecture Course in Urban Design

*Instructor:
Lukas Pauer*

*Job Title and Affiliation:
Assistant Professor of Architecture,
Emerging Architect Fellow,
University of Toronto (UofT),
Daniels*

*Program, Course, and Term:
BAAS, ARC253H1S Close Readings
in Urban Design, Winter 2023*