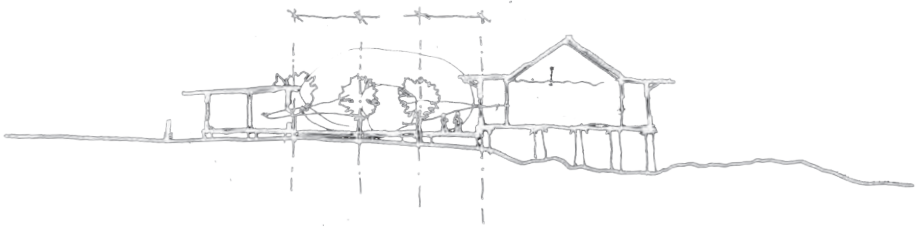




Practice

DESIGN STUDIOS 2021

UQ SCHOOL OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL DESIGN
&
MASTER OF ARCHITECTURE



DESIGN STUDIOS 2021



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

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P R A C T I C E 2 0 2 1

The exhibition curatorial team acknowledges the Jaggera and Turrabal people, from whom we can learn much about coexistence, building, listening, and making. Their elders, past, present and emerging, maintain a connection to Country and on their lands and waters we meet, learn and grow.

Practice is a process, from our earliest scribbles to our final submissions as graduates and onwards through a lifetime of curiosity and learning. As an exhibition title, Practice is intentionally ambiguous. It is both outcome focussed and continuous. For many of us, it will also be the corporate entity through which we contribute intellectually and personally to the making of buildings over the course of our working lives. Ultimately, practice is a shared and personal set of choices. Philosophically, and procedurally, we choose to engage and develop.

As emerging practitioners and perhaps eventually architects, there is a keen awareness of the relationship between our choices in practice and the implications on people and the environment. The conditions of the world require us to reflect on the conditions of our practice, particularly when the current cultural and environmental situation is strained under the compounding consequences of generations of social and political complacency. Prevailing economic theory is guided by technological and economic growth, but with increasingly limited resources and escalating public concern, accountability will reorient intention and ambition. The built product is an enduring document of the people who produce it. As graduates, we choose to participate in an evolving practice that requires as much attention as the product itself.

Congratulations, cohort of 2021. For myself as Co-Curator, the exhibition is about celebrating hard work and connecting to our peers, the profession and the people that support us. It is to celebrate our teaching staff, friends, partners and family, including those who have persevered to complete their studies without support or while caring for others or dealing with grief, mental health challenges or physical differences. Remember that when we started our studies someone taught us what a section was, how to hold a scale rule properly, and that working later doesn't mean you're working harder. We have come so far.

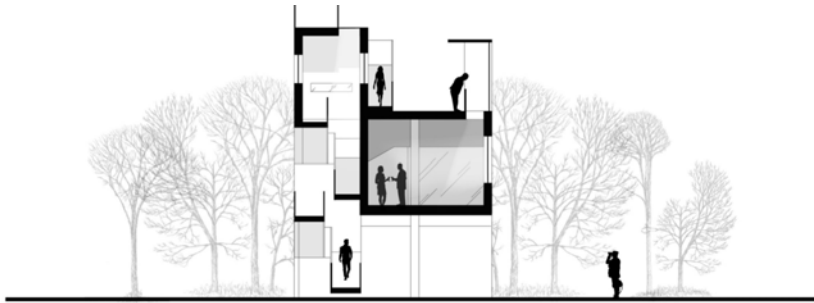
Exhibition Curatorial Team

The 2021 Design Studios booklet features the written contributions of lecturers and studio supervisors with the inclusion of a small selection of the outstanding work created by students from both Bachelors and Masters design courses from the year. This booklet acknowledges the time and effort of students across the entire School of Architecture and the staff supervising and guiding them.

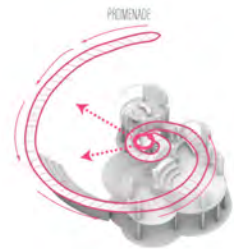




DESIGN 1 : FORM AND SPACE



Lyssa Sze

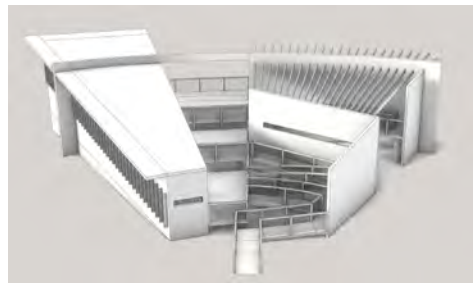


Anna Keenan

ARCH1100 5 POINTS MEDIATHEQUE BACHELOR OF ARCHITECTURAL DESIGN 2021

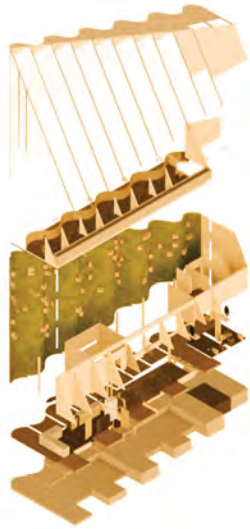
STAFF
Antony Moulis (Coordinator)

TUTORS
Lara Rann, Peyman Akhgar, Aparna Datey,
Giovanni Veronesi, Genevieve Quinn, Natalie
Lis, Ali Rad Yousefnia



Brendan Hunter

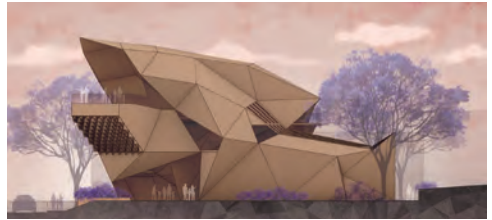
Le Corbusier's 5 Points of Architecture, in combination with the idea of the architectural promenade, express fundamental principles of architecture that can be interpreted for the contemporary world. Students investigated the 5 Points to understand the social and environmental issues they originally addressed in relation to Le Corbusier's projects, using diagrams and text. Students were then set the task of identifying issues that can be addressed today through the strategy of 5 points. The collective of the student body scoped issues as follows: identifying sustainability, resilience, climate adaption, material scarcity, recycling, community and universal access as contemporary issues that could be addressed through their own version of the 5 Points. They also searched contemporary architectural projects to discover new approaches, elements and materials that relate to these issues. Their project was the design of a small 'mediatheque' promoting a new set of aspirations for architecture including a media room, a space for presentations and workshops, an outdoor gathering space and a catering point. These parts were integrated into a spatial experience for visitors, offering them a curated tour, via an architectural promenade, through the new architectural elements. The project was organised in stages through which students reinvented the 'Five Points' as a suite that can be used to create contemporary architectural form and space.



Brendan Hunter



Qi Rong Song



Jylianne Camus

ARCH1201

VERTICAL MOVEMENT

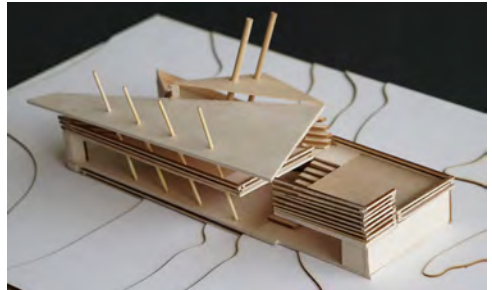
BACHELOR OF ARCHITECTURAL DESIGN 2021

STAFF

Fred Teixeira (Coordinator)

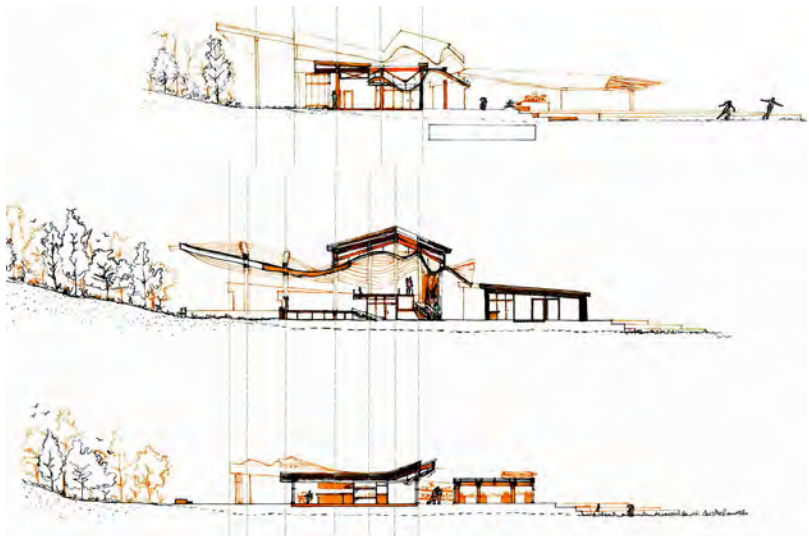
TUTORS

Kristina Knox, Maryam Shafiei, Emilie Hildebrandt, Thomas Webster, Ayman Wagdy, Peyman Akhgar



Matthew Schoutrop

The Vertical Movement studio consists of a series of coordinated design phases exploring opportunities through the creative use of timber within a context of an Eco Cafe. The studio's design process iterates through four design research phases from line, surface and volume experiential concepts, with a final architectural outcome reached based on evidence and reasoning. Understood and presented as an iterative series of architectural studies, the analysis and manipulation of experiential phases are overlaid with timber as material constraint. Overall, the studio aims to establish and enhance vertical and programmatic connections between space and material through experiential interpretations. The architectural outcome emerges from the operative principles into an Eco Cafe situated in West End along with Semper's "Four Elements of Architecture". The proposals follow a set of strict urban or vertical farming programmatic constraints to combine verticality and sustainability into one space. Nonetheless, the architectural program iterates with the previously studied analytical, synthetic and operative experiential principles. Overall, the Vertical Movement studio does not imply to use a reductive notion of replication, but to aesthetically and functionally develop design principles as extensions of movement through vertical spaces.



Sophia Fu

ARCH2100
SETTING AND IDEAL FORM
 BACHELOR OF ARCHITECTURAL DESIGN 2021

STAFF
 Douglas Neale (Coordinator)

TUTORS
 Peyman Akghar, Mark Hiley, Jonathan Kopinski,
 Felix McNamara, Laura Patterson, Emerald
 Vermeer



Daniel Foote

The Architectural Design studio for Semester One, Second Year: 'site and surface' focused on the manner in which landscape can direct judgement and add to the development of a repertoire for architecture, including investigations of appropriate conceptual, technical, organizational and climatic responses. The Course placed emphasis on developing skills in aspects of architectural design that could be said to be intrinsic to architectural form. In addition to working in the studio, scheduled visits to a variety of locations were fundamental for inviting students to undertake, in situ, exercises in observing, measuring and analyzing the physical and qualitative attributes of existing settings. The projects were linked by a common interpretation of landscape, form and spatial organization. In the studio, students developed work through an iterative accumulation of intensive, exploratory and sequential exercises executed in a variety of media, including: drawing, sketching, digital media, marquette and model studies. In the remaining major portion of the semester, students deployed the skills developed in the earlier exercises in combination with programmatic- and process-based problems to explore designs for a community facility, located in the Banks Street Reserve - a pocket of bushland bordering Enoggera Creek and the inner northern Brisbane suburbs of Ashgrove and Alderley.



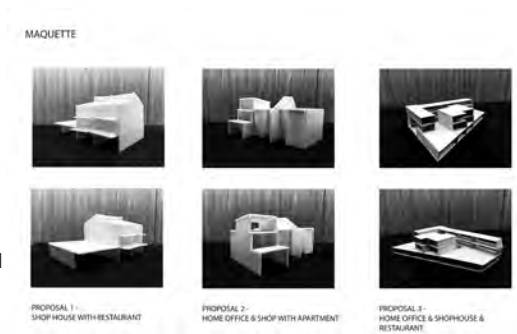
Lucy Stefanovic

ARCH2200
THE AVAILABLE CITY
SUNNYBANK COMMONS
 BACHELOR OF ARCHITECTURAL DESIGN
 2021

STAFF
 Andrew Wilson (Coordinator)

TUTORS
 Jonathan Kopinski, I-Wen Kuo, Gordon
 Macindoe, Felix McNamara, Sarah Manderson

CONTRIBUTORS
 Olivia Daw, Genevieve Quinn



Yu-Heng Cheng

The Available City is the concept and theme of the current edition of the Chicago Architecture Biennial established by artistic director David Brown, that asks us to consider the role that collective space can have in cities today. The commons can be defined as cultural and natural resources accessible to all members of a society, including resources such as air, water and a habitable earth. These resources are held in common, not privately owned. A commons could be a space in an urban or rural setting available for protest and celebrations. It can also be understood as resources that groups of people (communities, user groups) manage for individual and collective benefit. Characteristically, this involves agreement on a variety of informal norms and values (social practice) employed as a governance mechanism. The social practice of governing a resource, not by the state or market forces but by a community of users that self-governs the resource through the institutions it creates. Students were invited to collaborate with their tutors and develop a themed response to the idea of a Sunnybank Commons and attendant typologies that could productively contribute to our agreed scenario.



Ginnie Lee

ARCH3100

GOODNA HEALTH CLINIC

BACHELOR OF ARCHITECTURAL
DESIGN 2021

STAFF

Tim O'Rourke (Coordinator)

TUTORS

I-Wen Kuo, Rob Keen, Yohei Omura,
Jonathan Kopinski, Felix McNamara,
Melody Chen



Mia Pearn

The project in this third-year studio was to plan a suburban health campus in Dakabin and design its main clinical building for the Institute of Urban Indigenous Health (IUIH). In partnership with the Aboriginal and Torres Strait Islander Community Controlled Health Organisations, IUIH deliver a comprehensive range of health services to Indigenous people in South East Queensland. In 2020 IUIH purchased a 13,200 m² greenfield site in Goonda to build a northern hub for the delivery of their diverse health services to First Nations people in the region. The brief for this project was developed with staff from IUIH and included guided visits of their Caboolture Clinic. IUIH is developing a novel patient-centred approach to primary healthcare and the Goodna project was an opportunity to explore the architectural implications of this model of care. The studio also drew on the School's recent multidisciplinary research on Indigenous people's experience of healthcare architecture as well as the broader literature on evidence-based design in healthcare. Debates about cultural representation in the architecture and landscape added to the complexity of this plan-driven project on a challenging site.



Francesca Sweetman



Yiwen Zhang



Philip Cen



Eloise Whittaker

ARCH3200 LANDSCAPE LINK BACHELOR OF ARCHITECTURAL DESIGN 2021

STAFF

Pedro Guedes (Coordinator)

TUTORS

Aparna Datey, Peyman Akhgar, Liz Watt, Craig Atkins, Genevieve Quinn, Yohei Omura



Bidisha Roy

The final project in the Undergraduate programme was to focus on a moderately complex building on a key site on the St Lucia Campus. Flexible teaching and office space was combined while contributing to the urbanity of the campus by entering into dialogue with natural and built surroundings. Work focused on a General Purpose building on a key site linking the Great Court to the amphitheatre and lakes. The studio pondered scripting space and its boundaries by investigating how buildings may be enriched beyond the pragmatics of program, connecting with context and blurring the boundaries of enclosure and openness. Precision and detail grounded hunches and brought them to life. Mundane expectations embodied in reductionist schedules of areas were augmented by discovering how unforeseen delights lurk in connective tissue hidden in percentages masquerading in arguments about net to gross ratios. Decorum, opportunism, modesty, emphatic display and other enthusiasms guided individual approaches, underpinned by the obligation to explain intellectual motivations that illuminated the journey. Balancing ideas of social responsibility with those that engage with delight, uniqueness and the memorable were parts of the multifaceted agenda.



Isabella Reynolds

ARCH7001 (Part C) ARCHITECTURE AND COMMERCE

MASTER OF ARCHITECTURE 2021
SEMESTER 2

STAFF

Liz Watt
Cameron Bruhn

TUTORS

Mark Tendys, Paul Jones

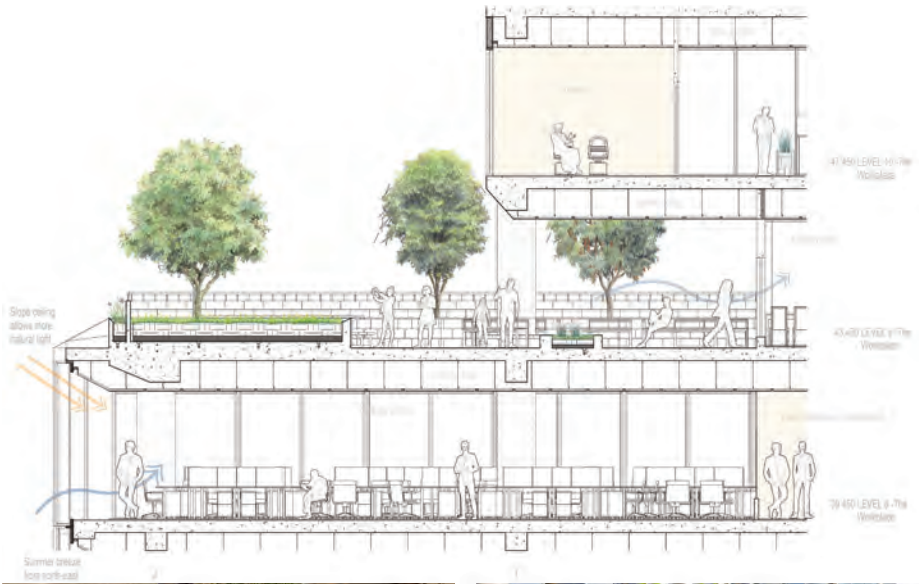
CONTRIBUTORS

Hassell
Arup

One of the most significant impacts of the COVID-19 pandemic has been on the way we use (or don't use) commercial buildings and their urban settings. The studio investigated emerging and future commercial and workplace models, building typologies and construction technologies that address three key questions through research and design at 522 Flinders Lane, Melbourne:

Site + Public Realm
Building Type + Form
Workplace + Occupation

The project aimed to provoke innovative architectural ideas that may effectively challenge industry norms and assumptions as well as urban planning frameworks. Informed by their own research and investigations into context and typology, students developed an architectural proposal which aimed to make a positive contribution at the scale of the city, the street and user occupation. Students had the opportunity to interact with architectural and urban planning professionals with specific expertise, as a means to develop their ideas for a commercially rigorous yet innovative working model, backed by a strong rationale and brand identity.



Xingyi Chen



Pui Kuan Lao



Emily Paterson

ARCH7002
INSTITUTIONS & IDEOLOGY
 MASTER OF ARCHITECTURE 2021
 SEMESTER 1

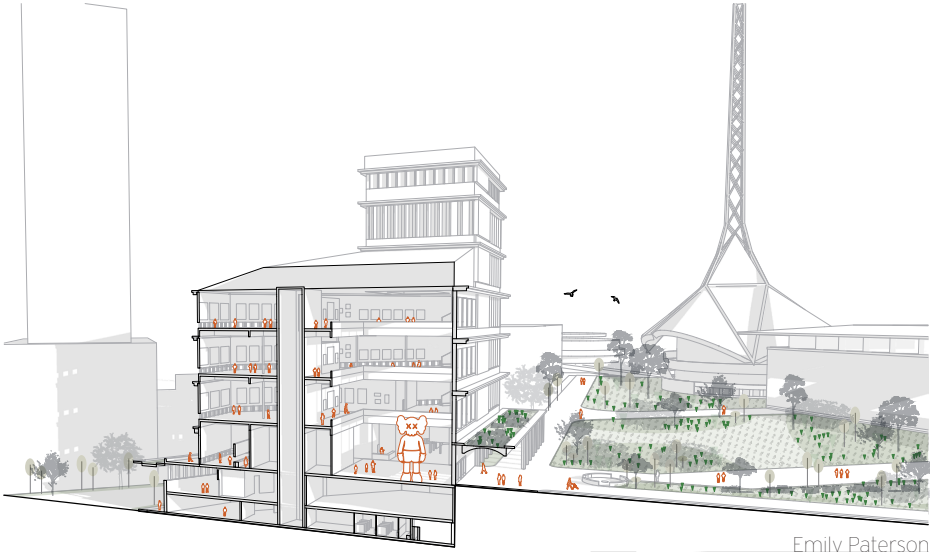
NGV CONTEMPORARY

**Australia's New Home for Art
 and Design**

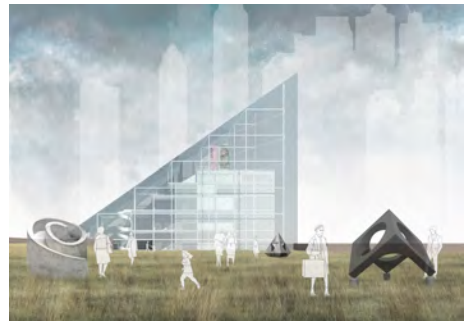
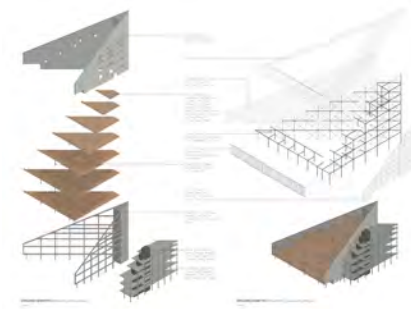
STAFF
 Andrew Wilson
 Nicole Sully

TUTORS
 Paul Jones, Gerrit Lebbink

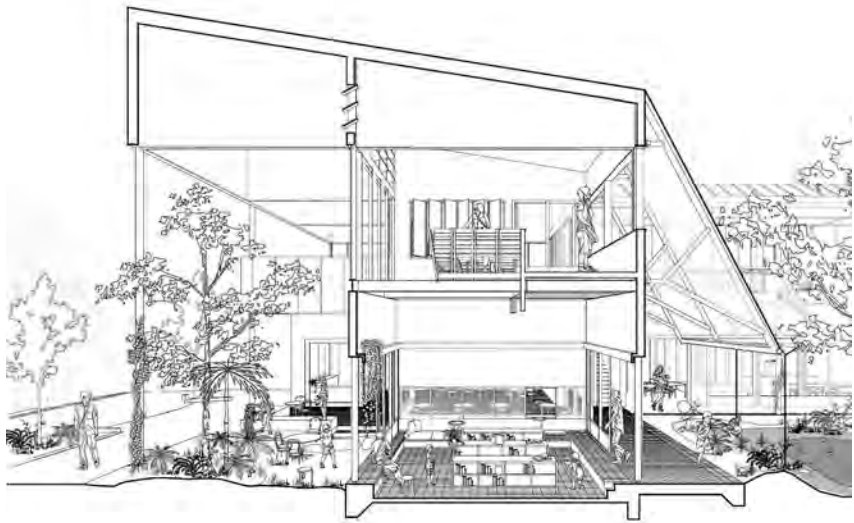
The NGV is committed to Australian architecture and design. This commitment is expressed through an ambitious collecting and commissioning strategy, and through the presentation of ground-breaking design and architecture exhibitions and events including Melbourne Design Week and NGV Architecture Commission. The competition celebrates Australia's world-class architecture and design capabilities and invests significantly in local talent. Through design and construction NGV Contemporary will provide a long-lasting impact on the local design and architecture industry. A project of this prominence and importance to Victoria deserves the very best architecture and design Australia can produce. This is a city-shaping opportunity to deliver the highest possible quality for its users, the city and the environment. The NGV Contemporary Design Competition encourages creative collaboration and embraces diversity of expertise and experience. The design brief is layered and complex and requires a diverse range of design professionals to fully exploit its opportunities. Now more than ever the local design and built environment economy needs support and encouragement. The competition calls for proposals that maximise the opportunities for this project to contribute positively to the local economy, industry and jobs. NGV Contemporary will be a global architectural landmark that demonstrates the skill and capability of the local design industry.



Emily Paterson



Jeffrey Zheng



Kelly Nortje

ARCH7002
INSTITUTIONS & IDEOLOGY
 MASTER OF ARCHITECTURE 2021
SEMESTER 2
REGIONAL CIVIC SPACE

STAFF
 Doug Neale (Coordinator)

SENIOR STUDIO ASSISTS
 Kerry Clare
 Lindsay Clare

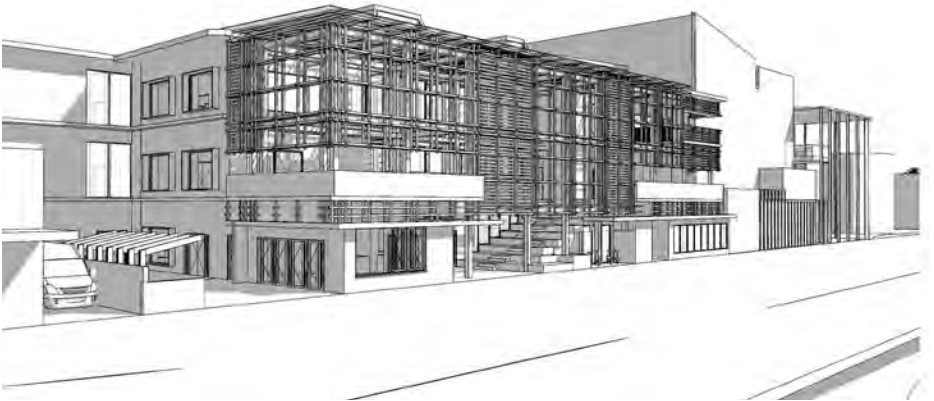
TUTOR
 Yohei Omura

In Semester 2 this year, the Master of Architecture studio: 'Institutions and Ideology' was privileged to be led by the 2010 AIA Gold Medallists, Kerry and Lindsay Clare of Clare Design. The studio explored regional and civic space using the Central Queensland city of Rockhampton as the locus for the semester. The course developed skills in architectural design, responding to the changing nature of civic space combined with the unique opportunity to take in an understanding of the importance of a regional response intended to support and sustain a local community. We began in O-Week with an immersive 3-day field trip to Rockhampton. Field studies included urban analyses of the Rockhampton CBD, the opportunity to visit the nearly completed Clare Design project: the Rockhampton Museum of Art [RMOA] and a charrette-like workshop for the studio project: a new library for Rockhampton sited in the rejuvenated civic heart of the CBD adjacent the RMOA on Quay Street - the historically significant heritage river edge of the CBD flanking Tunuba [Fitzroy River] with views to Nirum [Mt Archer]. The workshop, led by Lindsay and Kerry with input from local stakeholders developed parti pris responses for a project design for a library and resource hub developed throughout the remainder of the semester structured around a number of intensive work-in-progress reviews in the lead up to the final 'crit week' review.



1:250 FRONT ELEVATION FROM OLAY ST

Ben McMillan



Jakob Kidd



Rockhampton Site Visit Photos RMoA_group 1 + 2 + 3



Liming Zheng

ARCH7003 (Part C)
ADAPTIVE CAPACITIES
 MASTER OF ARCHITECTURE 2021
 SEMESTER 1

STAFF

Mark Jones
 Chris Landorf

TUTORS

Lutfun Nahar Lata, Kali Marnane,
 Robert Keen, Wendy Truer, Malcolm
 Rae, Ted Stubbersfield

Economic globalisation has caused a seismic demographic shift in the global South across recent decades. As corporations take advantage of low-cost labour in poorer countries and agriculture becomes more mechanised, huge populations move from rural locations to seek improved economic circumstances in cities. This rapid urbanisation has accelerated increases in land values in cities of developing countries, while large portions of city populations remain extremely poor. The urban consequence of these colliding socio-economic forces has been the unauthorised occupation of land by the poor, in the form of informal settlements or slums. Slum dwellers, numbering one billion globally, suffer from a range of deprivations including tenure insecurity, overcrowding, poor quality housing, an inability to access services, and social stigmatisation. This design project sought to build a new paradigm for elevating the urban poor above deprivations through engagement with a particular informal settlement in Dhaka, Bangladesh. This is a community of 13,000 people housed in fragile shacks, mostly comprising one small room for an average household of four people. The dwellings are uninsulated and unventilated, and exceptionally hot in the tropical climate. The task was to design decent high-density housing to re-accommodate the slum population onsite, plus a local school and market. The designs incorporate appropriate materials and technologies, respond to local socio-cultural patterns, and address the local climate. If implemented, such a project would be absolutely transformational for the urban poor.



Simin Louei



Katherine Lee



Luke Acreman



Comer Lee Mysore

ARCH7004 (Part C)
DWELLING AND DENSITY
 MASTER OF ARCHITECTURE 2020/21
SUMMER SEMESTER

STAFF

Michael Dickson (Coordinator)

TUTORS

Celeste Norman, Lisa Kuiri, Joshua Spillane

Housing is the bedrock of our cities. Depending on the perspective, it comprises almost 70% of the built fabric. It is the building type that almost all of us are part of, that we live our day to day in. It accommodates our dreams, keeps our loved ones safe, and is the setting that germinates our dreams and forms our memories. Housing can signal the hopes and aspirations we have for our cities. Is it one about openness, equality, giving everyone a fair go, or is it about wealth creation and social stratification? How will the places we live impact the health of our planet moving forward? Can we evolve to a carbon neutral society, where social cohesion allows us to tackle the inevitable disruptions that a changing climate will bring? Our challenge was to design an inner-city integrated community that considered a range of housing typologies catering to a broad demographic. We explored build to rent, downsizers, and social and affordable typologies to help build an understanding of the housing spectrum and the design nuances that different demographics bring to the process. We worked individually and then in teams to develop one of the focus typologies, targeting a density of approximately 300 dwellings per hectare. The diversity of how density was delivered was developed by the teams and it was important to understand the metrics of housing in combination with design of community. Too long housing is seen as built spreadsheets. By understanding that language and subverting it, as a studio we tried achieve an outcome that could be defended in the marketplace whilst providing a new piece of the city that fostered community, amenity, and a feeling of homeliness and well-being.



Abigail Lee



Ferrero Sandhu Bloomfield



Goodman Webster Snelling



Thomas Cleary

ARCH7004 (Part C)
DWELLING AND DENSITY
 MASTER OF ARCHITECTURE 2021
 SEMESTER 1

STAFF

Elizabeth Musgrave (Coordinator)
 Brit Andresen

SENIOR STUDIO ASSISTS

Rebekah Vallance
 Trent Wallace

This architectural studio began with design research exploring both density concepts and housing configurations with a focus on low-cost and social housing. The research tasks were supported by lectures that introduced such precedents as: Perimeter housing by the Martin Centre in Cambridge UK; early C20 ideals of existenzminimum in Germany; charity housing for the elderly in Holland (mainly the courtyard-type known as hofjes and constructed since C14); slum housing in C19 London; post-war council housing and low-cost housing in London including recent work by Peter Barber Architects. Lectures were followed by site visits to local examples in Brisbane and Southport to study, measure, sketch and analyse three suburban, multiple unit housing projects: Terrace Street Apartments, The Left-Over-Space House and Southport Garden Villas. Day-long workshops included the study of two, single-storey, single-bedroom, housing units built in 1960s West End. The processes of documentation and analysis of these precedents demonstrated the complexities of working with size and access limitations and the difficulty of achieving optimal living conditions. Simultaneously, and from the start of semester, students were engaged with design within both the workshop exercises and in the main project for social courtyard housing at Toonarbin, Highgate Hill. Although not the only issue, an iterative quest was to design the thresholds of dwelling units to reveal the particular qualities of this often overlooked yet architecturally potent place; the 'twilight zone' between inside and outside.



Thomas Cleary



Lily Parson



Qiulin Wang

ARCH7004 (Part C)
DWELLING AND DENSITY
 MASTER OF ARCHITECTURE 2021
SEMESTER 2
 Diverse-City 2032

STAFF
 Kelly Greenop

SENIOR STUDIO ASSIST
 Zoe Ridgeway (Arkhfield)

TUTOR
 Rob Keen

In Semester 2, students investigated dense housing in the Brisbane inner-city area, in the context of the 2032 Olympic Games which will be hosted in Brisbane. The theme for the studio, 'Diverse-City 2032', asked students to focus on the experience of the end-user/resident of the building and their neighbours and community. It asked students to consider the diverse array of people and needs that are accommodated in future apartments and that these should be widely accessible to the whole community. The site was at St Mary's Church, South Brisbane on Merivale, Peel and Cordelia Streets, with the heritage listed church to be retained. Students developed a speculation on Brisbane's future city context in 2032 and then developed a manifesto in response to that (e.g. climate change and global heating and therefore a new low-carbon economy and housing to adapt to the changed and changing climate; historic housing inequality and therefore a policy push towards housing equity through this project's approach; increasing urban density and therefore the development of all-age-friendly cities including within high density development, and so on). The focus was on the experience of the end-user of the apartments and the diverse array of people and needs that ought to be accommodated in future apartments.

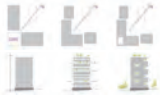
NEX GEN

100% AFFORDABLE HOUSING
BIKE WITH BRISBANE 2032

20 Merivale St, Brisbane
14 Levels | 150 Apartments | 10 units per level | Community Gardens

Located in QCC's iconic inner city location, NEX GEN is a landmark affordable housing development. 100% Affordable Housing build to meet Brisbane's ambitious goals to increase affordable housing stock, improve mobility, encourage and facilitate all activities. Residents, parking, and management areas are shared. Cycle lanes taking to adjacent car resident and public parking on the ground level. A clear sign and the major facilities are available on the podium level.

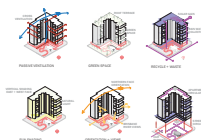
Forming a strong neighbourhood, social spaces are set and open-plan together with 10 and 2 bed apartments options per floor. Community Garden, bicycle, storage, recycling, and facilities at all levels. Residents, parking, and management areas are shared. Cycle lanes taking to adjacent car resident and public parking on the ground level. A clear sign and the major facilities are available on the podium level.



PARTI DIAGRAM



AXONOMETRIC

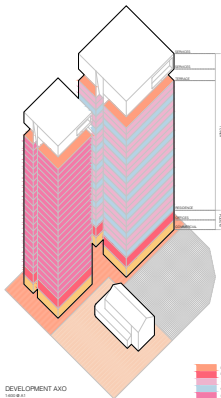


SUSTAINABILITY



ARCH: 7004 DWELLING & DENSITY | DIVERSITY CITY 2032
SEMESTER 2 2021
ALISHA MANDLA

Alisha Mandla



DEVELOPMENT SUMMARY

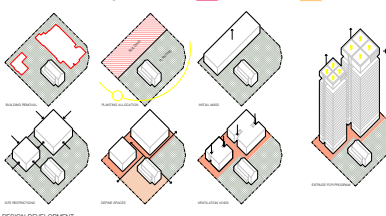
SYNOPSIS
The development is a 14-level, 150-apartment building located at 20 Merivale St, Brisbane. The building is designed to be a landmark affordable housing development, providing 100% affordable housing. The building is designed to be a landmark affordable housing development, providing 100% affordable housing. The building is designed to be a landmark affordable housing development, providing 100% affordable housing.

DEVELOPMENT TOTAL	NO.	NO.
APARTMENTS	150	100%
COMMERCIAL	0	0%
RETAIL	0	0%
OFFICE	0	0%
INDUSTRIAL	0	0%
RECREATION	0	0%
OTHER	0	0%
TOTAL	150	100%

APARTMENT TYPES	NO.	NO.
1 BED	100	67%
2 BED	50	33%
TOTAL	150	100%

PARKING SPOTS	NO.	NO.
RESIDENT	150	100%
COMMERCIAL	0	0%
RETAIL	0	0%
OFFICE	0	0%
INDUSTRIAL	0	0%
RECREATION	0	0%
OTHER	0	0%
TOTAL	150	100%

DEVELOPMENT AXON



Joel Wilhelmi



Fraser Galloway

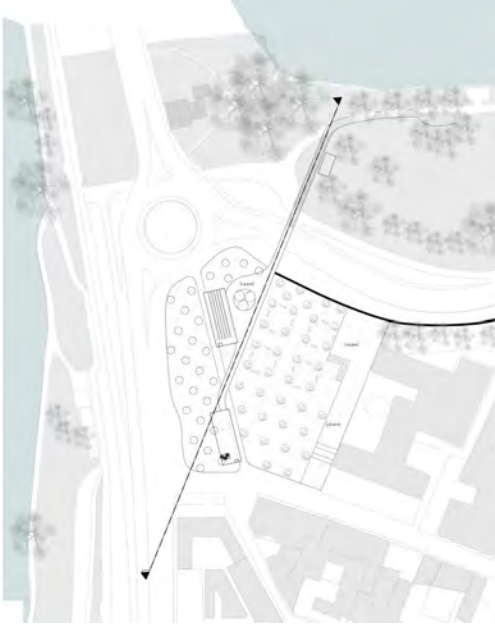
ARCH7005 SPACE AND CITY

MASTER OF ARCHITECTURE 2021
SUMMER SEMESTER

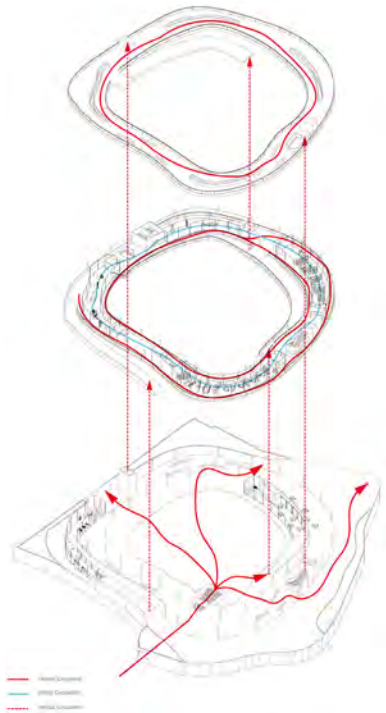
STAFF

Peyman Akhgar (Coordinator)
Ayman Alanssary (Coordinator)

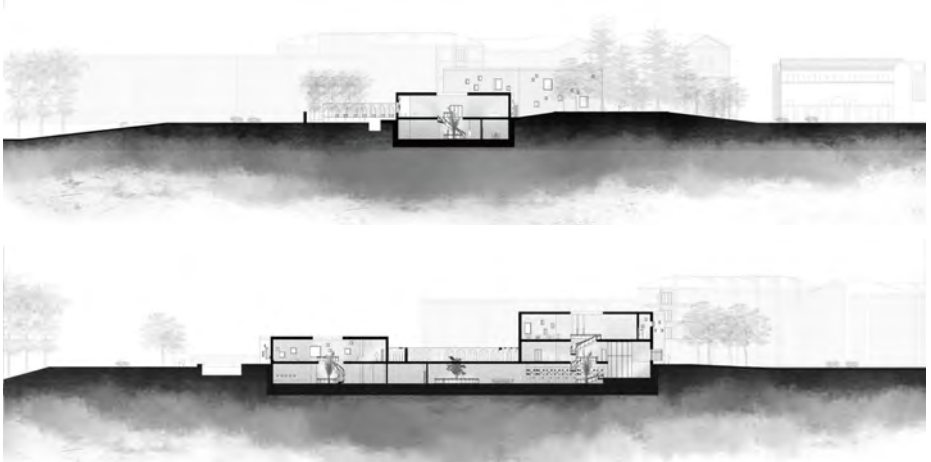
In this architectural studio, students were given a site in the historic Italian city of Mantova. The objective was to design a space within a landscape which was historically located at a gateway to the city. Students were required to create innovative landscape and architectural interventions to be inserted into an existing urban fabric, being spatially experiential yet considerate of the architectural culture of the city. The new space needed to consist of one permanent function and several outdoor communal spaces to serve the student population in the city. Students were encouraged to analyse architectural and landscape precedents located in Mantova, and thereby, extract ideas to create critical spatial and experiential solutions within the site. This course involved intensive workshop periods undertaken both in teams and individually. The studio proposed research methods of analysing the site, space, and the city and explored their potential in the design of the proposed building and landscape. The students were asked to use the Workshop to build small- and large-scale models and also work with digital tools to explore ideas and make prototypes. Students were provided with necessary archival materials related to the site and the city.



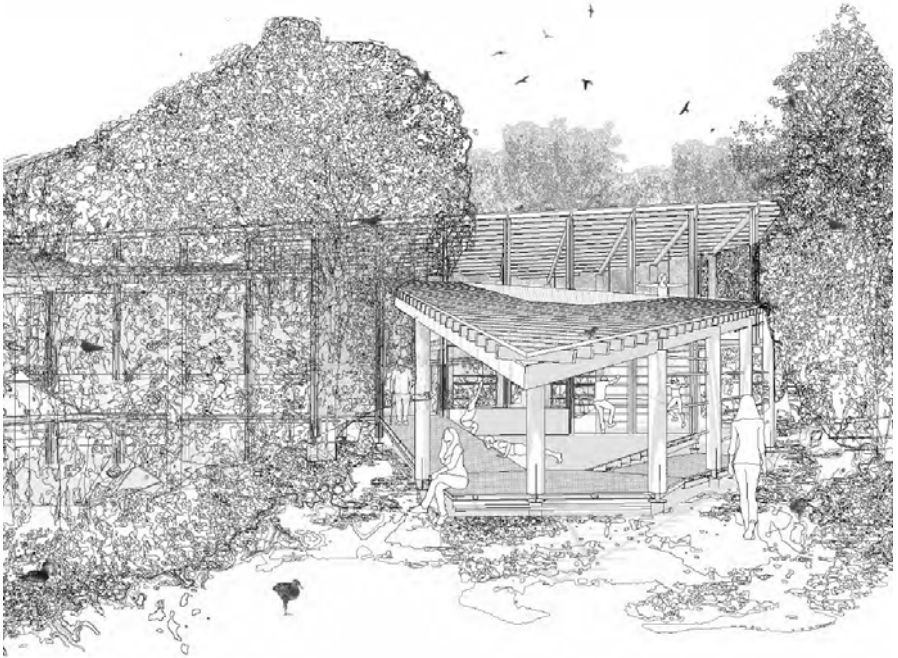
Sushma Purushothama Babu



Linye Jia



Ni Eyrü



Alice Langholt

ARCH7005 LANDSCAPES & ARCHITECTURE

MASTER OF ARCHITECTURE 2021
SEMESTER 1

STAFF

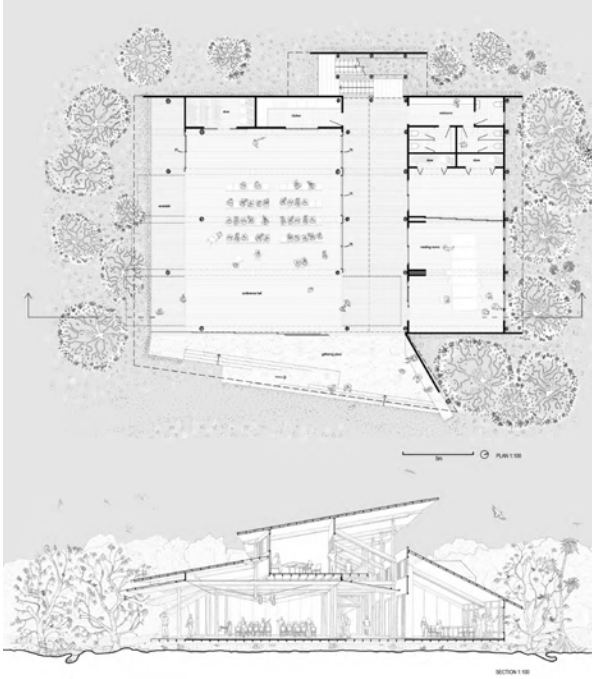
Silvia Micheli (Coordinator)

TUTORS

Tom O'Shea, Joanna Brugman
Alvarez, Cathy Keys, Luke
Massingham, Tim Bennetton

Heron Island is a coral cay near the Tropic of Capricorn in the southern end of the Great Barrier Reef, and its eastern half is part of the Capricornia Cays National Park. UQ Heron Island Research Station (HIRS), internationally renowned for research and student training in marine sciences, is the oldest and largest marine research station on the reef and part of the Great Barrier Reef Ocean Observing System.

This studio re-imagined the station's research, teaching and hospitality facilities and overall planning based on strategies related to resilient design - addressing logistics and remoteness, environmental protection and climate change. Students developed a brief in collaboration with representatives from HIRS and UQ Faculty of Science, in order to improve the station's capacity and the challenges of living and working within a complex ecosystem. While reviewing the masterplan of the station, students in this studio worked on medium scale structures in the marine landscape addressing topics related to sustainable development, coastal dwelling and community building. The studio included workshops with HIRS staff and a 4-day field trip to Heron Island Research Station assisted by UQ lecturers.



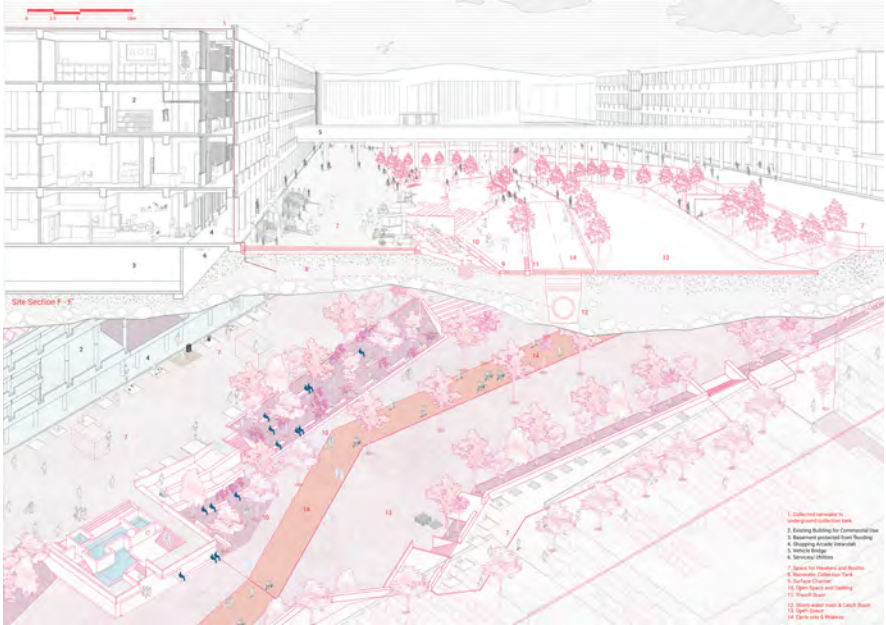
Thomas Webster



Kelci Conradsen



Yun Kim



Sam Wu

ARCH7005 LANDSCAPES & ARCHITECTURE

MASTER OF ARCHITECTURE 2021

SEMESTER 2

**Recovering Horological
Landscapes in Chandigarh -
Narrative Tapestry or Brutal
Intervention?**

STAFF

Manu P. Sobti (Coordinator)

TUTORS

Ali Rad Yousefnia, Meghna Prasanth

COLLABORATORS

Sangeeta Bagga-Mehta (Chandigarh
College of Architecture CCA) &
Vinayak Bharne (Moule & Polyzoides
Architects & Urbanists, Los Angeles)

The Chandigarh Studio explored if urban landscapes could indeed be construed as a measure of time and as horological (time-measuring) tabula rasa. Could we then substantially recover 'lost time' from the examination of these landscapes? How would critical interventions embody these readings of chronological and archaeological time, while facilitating future readings within the developing Anthropocene?

Framed within these provocative questions, the starting point for the studio was the embedded 'horological landscape' that rests within and below Corbusier's array of formal interventions comprising the well-known city of Chandigarh (India). Our explorations worked to recover these lost landscapes of time via selective interventions at 'fracture points' with the city plan, incorporating hydro and terrain elements, buildings, building ensembles, and urban spaces. These 'cumulative interventions' resulted in new readings for the provocative Chandigarh Plan. Towards these goals, student projects intervened on two contrasting sites - the monumental Capitol Complex with Corbusier's signature buildings and the retail district comprising the Sector 17 Shopping Plaza.



Liang Smith Stephens

ARCH7007
MASTERCLASS
 MASTER OF ARCHITECTURE 2021
 SEMESTER 1
Burleigh Heads Community Hub

STAFF
 Michael Dickson

SENIOR STUDIO ASSISTANT
 Leah Lang

The Gold Coast is often perceived as an architecture-free zone, all sun, surf and sex. In reality, the Gold Coast is a sophisticated city that has a close relationship with nature and an open attitude to opportunity and expression that sets the scene for great architecture to emerge. With a current population of approx. 620,000 which was expected to reach 1M by 2050, it is coming of age, with new infrastructure such as the G-link light rail, and extensive active transport options creating a connected and liveable city. A new mindset is essential to facilitate the delivery of new and improved community infrastructure along the Light Rail corridor to keep pace with this projected growth. The Gold Coast has a living and evolving character and heritage that contributes to its success economically, culturally, and socially. Burleigh Heads is a much-loved suburb of the Gold Coast with a vibrant high street, north facing beach, distinctive Norfolk Pines, and an abundance of nature as the national park and headland meets the sea. Hidden away at the edge of this hub is an aging library, community centre, and local council offices. Working individually at first and then in teams, studio participants put forward proposals for a replacement building complementing the urban renewal proposed for the area and catalysing the sense of community. With framed views to the sea, a prominent face addressing new public spaces, a backdrop of a rising headland and, connections to the high street, this project had a rich set of ingredients to work with to create a memorable building.



Goodman Jenkins Zervoudakis



Belwalker Borkar Khatu Trinh



*they have taken untold millions that they never toiled to earn
without our brain and muscle not a single wheel can turn
we can break their haughty power, gain our freedom when we learn
that the union makes us strong.*

Charles Sale

ARCH7007 MASTERCLASS

MASTER OF ARCHITECTURE 2021
SEMESTER 2

STAFF

John Macarthur (Coordinator)

SENIOR STUDIO ASSIST

Don Watson

TUTORS

Peter Roy, Jinx Miles, Paul Violet, Ali Rad Yousefnia

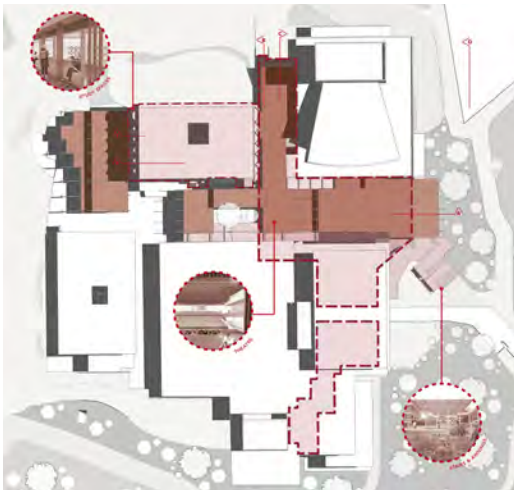
This studio was led by Don Watson, a highly respected architect and historian, and winner of the AIA Gold Medal for 2021. The project takes the scenario of adapting, maintaining and repairing the UQ Student Union Complex designed from 1958 by Stephen Trotter of JM Collin & CWT Fulton/Fulton Collin Boys Gilmour Trotter. In the face of proposals to demolish and replace the complex, students show how it can reoriented to connect to the Lakes Bus Station, and renew the Union's role at the social and political heart of the University. The studio has been informed by the history of the building and the role of the Union in the past and present life of the University. Don has lectured on his design methods and particularly on his TAFE buildings which are of a similar scale and complexity to the Union project.



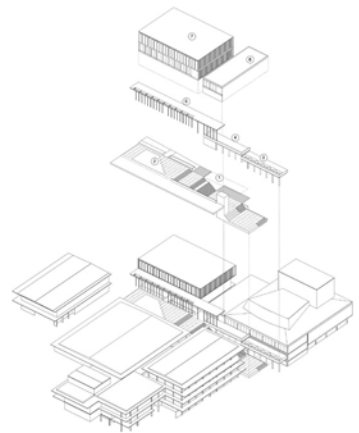
Fami F Bahmdan



Julia Comer



Claire Black



Yun Kim

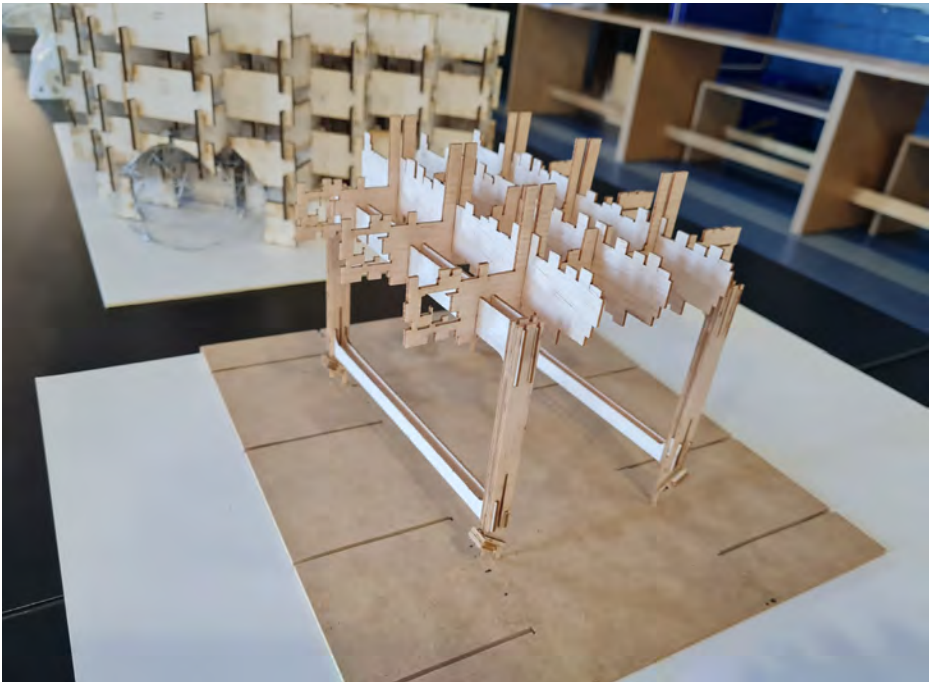


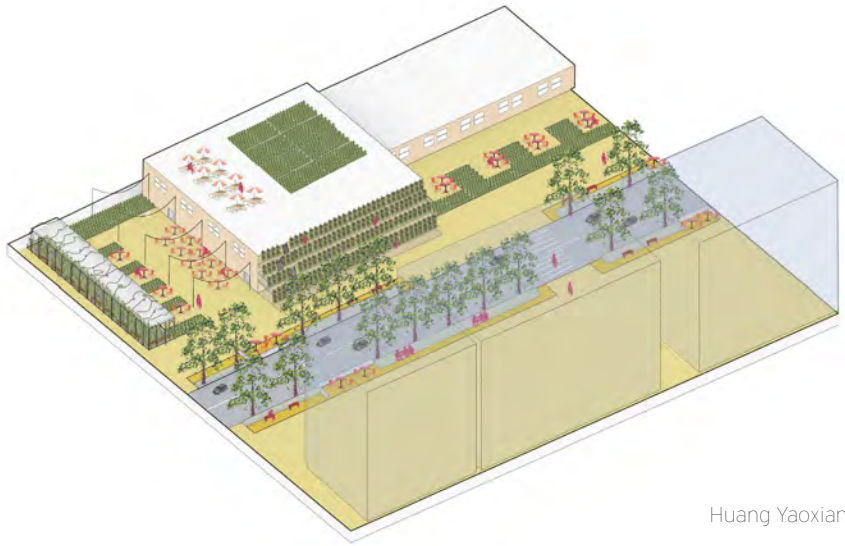
ARCH7008
MATERIAL EXPERIMENTS
 MASTER OF ARCHITECTURE 2021
 SUMMER SEMESTER

STAFF
 Kristina Knox (Coordinator)

TUTORS
 Wei Win Loy, Ayman Wagdy Mohamed
 Ibrahim

This studio offered a combination of parametric design tools and material studies in order to propose a design solution, applied in the architectural realm. Students learnt how to use data-based design algorithms, enabling morphogenetic process-based design solutions, heavily relying on software workshops (Rhinceros+plug-ins) and prototyping. Through an iterative design process of applied tectonic performance, the studio explored a direct relation between material and form, where emergent patterns provided an informed knowledge between structural properties and spatial logic. Using digital and analogue prototyping, the studio examined and deployed innovative tectonic propositions for emergent urban structures. Students learned how to control input data, influencing programmatic and aesthetic outcomes of their design based on context-specific data analysis. A focus on innovation at the level of the detail was a key driver for design speculation, approaching buildings as the aggregation of numerous decisions about material and assembly. Studio activities in this course were primarily undertaken through detailed material modelling and prototyping, along with computational analysis and drawing. Overall, this offered a comprehensive exploration of design alternatives, derived from student's assumptions, defined by design purpose. This approach allowed for the automation of design logic through the use of algorithms. The ultimate studio goal was to enable creativity through creating multiple unique design solutions, that would be more difficult to discover otherwise.





Huang Yaoxian

UDAD7003
URBAN DESIGN:
MICRO URBANISM
 MASTER OF ARCHITECTURE 2021
SEMESTER 1

STAFF

Dan Luo (Coordinator)
 Tianjin University

TUTORS

Alex Howell, Ian Nazareth,
 Tania Papatotiriou

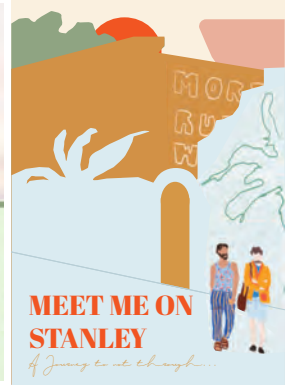
The development of infrastructure and transport systems has long been shaping our perception of time, space and urban life. The recent emergence of technologies such as autopiloting, big data, digital infrastructures, and urban sensor networks, is constantly challenging our understanding of urban space by blurring the boundaries between the digital and physical world, shaping a different perception of urban streetscapes for the pressing future. Acknowledging the progress in open-source datasets that quantify dynamic urban activities, such as Google street view, GIS, Airbnb and realestate.com.au, instead of the common empirical method in urban analysis, our investigations and research about the grain and fabric of the city started to use this effective approach to quantify a subjective perception of urban activities and streetscape with computer vision and machine learning. Inspired by the understanding of intricate connection within urban systems via data mining and research, students developed skills that helped them to design the urban realm between large architectural and engineering developments and discrete spaces and experiences. Here, students raised their own question of what the progressing technical-social-economic development of novel transport, public surveillance/urban sensory, and intelligent systems bring to the future of urban life along the domain of public streets. What are the potentials and risks within the density of the city fabric that interfaces with private space providing refuge, identity, and comfort? How shall we, as designers, actively confront this challenge through design, planning, and engagement, to re-imagine the streetscape for the near future?



Qing Yang



Kathryn Furner



Milah Cannon

UDAD7016 URBAN DESIGN: RESPONSIVE ENVIRONMENTS

MASTER OF ARCHITECTURE 2021
SEMESTER 2

STAFF

Paola Leardini (Coordinator)

SENIOR STUDIO ASSIST

Cathryn Chatburn

TUTORS

Genevieve Quinn, Olivia Daw,
Steve Kenway

The Woolloongabba precinct was once a thriving community hub and important centre for business on Brisbane's southside. Over many years, the delivery of significant transport infrastructure has contributed to the area's fragmentation, impacting its sense of community, cohesion and identity. This studio focused on the renewal opportunities around the precinct as a result of its improved connectivity and the City's Olympic Bid, exploring the catalytic value of these two major factors to create tangible design solutions for community-driven healthy urbanism. Students undertook critical reading, background research, site exploration, documentation, and data gathering/visualisation in order to develop a compelling urban vision and define foundational principles for the Woolloongabba precinct. This informed their transformational Urban Design Framework to create a sustainable urban neighbourhood focused on healthy living, active mobility, environmental resilience and a strong sense of community - the site legacy post-Olympics. The preliminary and comprehensive investigation supported students in their individual elaboration of a Prospectus for Urban Transformation (PUT) to advance and put in place neighbourhood scale strategies to enable the proposed UDF's delivery. Its content may focus on one of several urban design tools, such as the production of Urban Design Guidance, or a specific area of design resolution, including sustainable infrastructure (social, energy, water), planning policy, or urban governance strategies. The PUT advances the details and illustrates the spatial propositions for the site surrounding the Cross River Rail station, at the core of Woolloongabba, and its physical, social and cultural connections to the neighbourhood and the city.



- | | | | |
|--|---|---|---|
| Resistant | Build Form | Public Open Space | Planning Legend |
| <ul style="list-style-type: none"> 1. Core Use 2. Pedestrian Use 3. Pedestrian Crossing | <ul style="list-style-type: none"> 1. Built Form 2. Commercial Precinct | <ul style="list-style-type: none"> 1. Green Open Space 2. Ecological Spaces & Wetlands 3. Open Space 4. Recreational Space 5. Waterways & Landscapes | <ul style="list-style-type: none"> 1. Existing Commercial Buildings 2. Existing Bus Services Apartments 3. Existing Roads 4. Residential - Built Overlay 5. Commercial - Residential 6. Bus Station 7. Commercial - General 8. Bus Stop 9. CSM Station - Southbank Entry 10. Substation Westpark 11. Southbank Parking 12. Existing Wetlands 13. Creative Wetlands 14. Open Office Space 15. Existing Road 16. Main St Pedestrian Priority to Southbank Station |

Shriya Venkatesh



Emily Richter

WOOLLOONGABBA WILD CORRIDOR

(Author: Daniel Deruiter)

VISION	TARGETS	STRATEGIES	OUTPUTS
<p>Our vision is that in 2032, the suburb of Woolloongabba is a wild suburban neighbourhood, incorporating strategies to move wildlife and cool water through Woolloongabba.</p>	<p>01 Have cool water through the city 02 Create a cool climate for family recreation 03 Capacity to mitigate flood risk of the region 04 Collaborate and increase awareness of indigenous waterways</p>	<p>01 Strategies that harvest water 02 Public realm throughout the corridor that provides amenity 03 Streets and paths that channel water to create run-offs to reduce flooding</p>	<p>01 Diversification and retention of water within the corridor 02 Concentration of local types of flora and fauna on the banks of the waterways through to enhance indigenous heritage 03 Recreation for families within the natural corridor</p>

STRATEGIES

EXPRESSIVE OUTCOMES

Daniel Deruiter

EXECUTIVE TEAM

2021 Exhibition Curation Team

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Ben McMillan

Logistics

Varish Shambhubhai Patel

Social Media

Chelsea Dwan

Treasurer

Jun Rong

Bachelor Graduate Book

Emily Robertson
Ginnie Lee
Rosana Vaginoda Chan

Master Graduate Book

Claire Black
Emilie Hildebrandt
Lily Parsons

2021 Studio Book

Bidisha Roy
Abigail Bates

UQ STAFF

Lisa Hinchy
Cecilia du Plessis

THANK YOU TO OUR SUPPORTERS

The Champions

BVN

rothelowman

The Advocates

nettleontribe
architecture

The Friends

m3architecture



THE UNIVERSITY
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AUSTRALIA

