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Showcase

This publication has been designed and produced to showcase the work of the Manchester Urban Design LAB [MUD-Lab] at University of Manchester. This includes project work from staff and students of the MUD-Lab from over the years.

Introduction

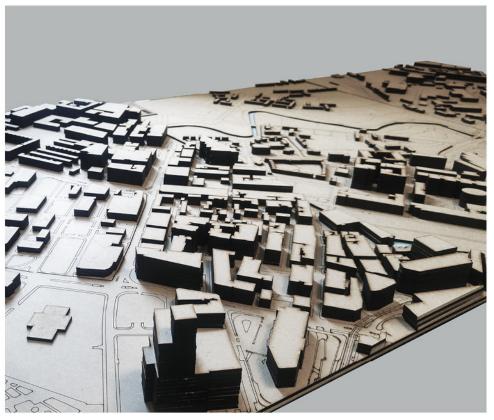
The Manchester Urban Design LAB was established in 2020 to support the ongoing work of the urban design staff and students within the University of Manchester.

MUD-Lab serves as a world-class urban design laboratory providing a wide range of resources, physical and digital; top-class design focused research and publications; high quality engagement and impact with practice; and training for the current and next generation of urban designers in the UK and internationally.

The MUD-lab promotes and teaches an applied studio-based technical approach to urban design.

www.manchester.ac.uk/mudlab





Team

Leadership Committee

Dr Philip Black [Director]

Philip established MUD-Lab in 2020 and is currently the Director. He is also a Senior Lecturer in Urban Design and Programme Director for MSc Urban Design and International Planning.



Dr Taki Sonbli [Manager]

Taki is the MUD-Lab's Manager and Technical Specialist. He supports all technical and graphical aspects in our Masters programme and the wider MUD-Lab.



Ms Rachel Kerr [Secretary]

Rachel is the Secretary for MUD-Lab. She is involved in the organisation of events, training, and linking with professional practice. Rachel maintains the MUD-Lab website and social media presence.



Staff

Mr Robert Phillips

[Honorary Lecturer (Teaching)] Bob is Director at local planning and design consultancy Urban Imprint Ltd. He is also an Honorary Teaching Lecturer with MUD-Lab.



Lecturer in Urban Design and Planning

Dr Ian Mell

Reader in Landscape Planning

Ms Aya Badawy

MUD-Lab Tutor

Dr May Newisar

MUD-Lab Tutor



Resources

Facilities

These facilities ensure we offer a worldleading urban design experience and education.

MUD Lab Studio

Our design studio is in the Humanities Bridgeford Street building. It provides a space in which to teach and work on projects.

The studio space offers equipment to assist in design and delivery, including:

- drawing boards,
- lightboxes,
- · panel boards to present work,
- · personal storage facilities,
- state-of-the-art teaching screens and software,
- technical equipment.

The studio also acts as a space for our students to relax and work on their projects.

MUD Lab Workshop

In 2022 we opened our state of the art MUD-Lab workshop - a dedicated 3D physical modelling space for students.

The Workshop is equipped with state-of-the-art:

- 3d printers,
- large format laser cutters,
- tools and materials for the production of high-class models,
- foam cutters,
- paint booths.

Print Room

Our dedicated printer resource studio offers AO+ plotting, large format laser printing and binding machines.

This studio ensures those training with us can print their design projects and present professionally at crits and final defences.

Computer Clusters

Our 100+ seat computer cluster is next to our design studio.

Each of the computers is pre-loaded with key software.

Here, we teach all the necessary software skills in an ideal learning environment.

Dr Taki Sonbli assists those training with us through their technical development. He is supported by qualified studio assistants.



Resources

Applied Urban Design Skills

Technical Sessions

The urban design applied technical skills sessions are a year-long series of bespoke workshops that take students through the various techniques of visualising information. The workshops are more than simply software sessions, with sketching and technical drawing playing a key role also. They are directly relevant to the materials presented in the urban design studio lectures in which students learn how to visualise what they have learned.

The sessions are split between the urban design studio and the dedicated computer clusters. Students use the softwares provided free by the university and have access to a range of equipment and tools.

Technical Support

The urban design team here at University of Manchester has a full-time Technical Lead to assist students through their technical requirements. This involves the opportunity for one-to-one sessions; personal mentoring; and an online advice and guidance service for general trouble-shooting and more specific problems encountered.

All studio sessions are supported by our Technical Lead and a number of qualified studio assistants to ensure students have year-round support on all technical matters.



Resources

MUD-Lab Toolkit

Training

The MUD-Lab toolkit is a bespoke series of hand-outs and videos designed to provide University of Manchester students with a free to use accessible resource to assist their urban design software skills and develop their techniques in a wide range of core urban design techniques, approaches, and methods. The Toolkit offers students outside the classroom learning opportunities in how to develop urban design analysis, ideas, and proposals.

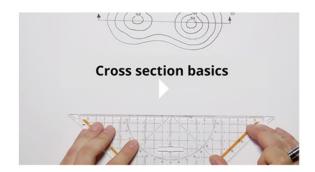
The toolkit includes simple to use step-by-step guides through the core design software packages, including Illustrator, Photoshop, InDesign, Sketch-Up, Twin-Motion, and AutoCAD. It also has extensive hand sketching/drawing and technical drawing guidance. This is a unique and invaluable resource for

students and is continually being updated and added too.

To compliment the toolkit urban design students are also provided with a series of technical workshops to develop their competencies in the core design software. These workshops are aimed at beginners and are designed to present how software is utilised in an urban design professional practice setting.









Projects

Project Types

MUD-Lab engages in a broad range of urban design focused projects funded by a range of partners and sponsors. All our projects aim to have a practice-based element to them, considering urban design as an applied field with the aim to provide outputs and publications that make a difference to professional practice.

The Urban Design Process

This framework enables students to practice urban design within the year-long time frame of MSc Urban Design and International Planning.

It was written by Dr Philip Black and Dr Taki Sonbli, and published in 2019 by Lund Humphries Ltd.

Urban Design Process structures a contextually responsive approach to understanding and designing. It allows students to develop projects along a logical pathway yet still requires:

- flexible and creative approaches and thinking;
- a full commitment to engage and deliver.

Design and Landscape Tapes

This podcast series links policy and practice with academic thinking and teaching.

It is hosted by Dr Philip Black and Dr Ian Mell and sponsored by Pegasus Group. We engage with leaders in urban design, green infrastructure, urban development, and planning, to explore:

- the influences that shape investment in urban landscapes;
- how design and landscape thinking frame development;
- the types of investment that are currently popular and how this might change in the future;
- why specific designs are used in specific locations.

Applied Urban Design

The Applied Urban Design framework promotes the practice of contextually responsive urban design.

It is designed by Dr Philip Black, Mr Robert Phillips, Dr Taki Sonbli, and Dr Michael Martin (Aalborg University).

Applied Urban Design will be published with Routledge New York in late 2022/early 2023. It seeks to allow readers to:

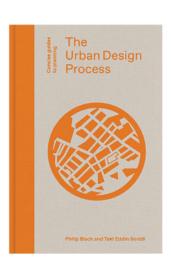
- perceive urban design as a unique vocational applied discipline;
- precisely understand applied urban design;
- better appreciate the distinct practice of urban design;
- better understand how designers can champion and deliver contextually responsive solutions.

Design Quality Evaluation

We regularly conduct studies and publish outputs on the issue of design quality and evaluation.

This includes research projects on the subjects of:

- · development management;
- design review;
- urban design;
- · architectural principles and qualities.



MUD-Lab Study

Courses and training

We offer an urban design master's course, as well as ateliers and summer schools.

Ateliers

These day-long events explore the full urban design or master planning process.

The ateliers are usually hosted in our Manchester Urban Design LAB (MUD-Lab) studio and are interactive with group working, soft modelling, and presentations. We have hosted ateliers with a range of partners.

These include URBED and the Manchester School of Architecture (MSA).

CPD

We offer a range of CPD training events, often working in conjunction with a range of partners including Urban Design Group.

These CPDs can be tailored to the needs of your practice or local authority. We provide half-day and full-day options across a variety of themes and topics such as:

- the urban design process;
- urban design governance;
- urban design analysis;
- developing a brief;
- the strategic design framework;
- design concepts and options;
- design delivery;
- urban design qualities and principles;
- unpacking/evaluating design (including design review);
- masterplanning;
- public realm design.

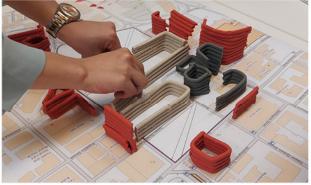
Summer Schools

We offer bespoke summer schools for universities and other organisations. We can tailor these day-long or 3–5-day programmes to your needs, to focus on:

- developing design frameworks and briefs;
- master planning;
- urban analysis;
- urban design project development and delivery.

All summer schools are hosted on campus and make use of our facilities and resources.





MUD-Lab Study

MSc Urban Design and International Planning [MSc UDIP]

The Programme

Launched in September 2015 our MSc Urban Design and International Planning programme has gone from strength to strength. We now accept 60+ students each year to study with us, and have graduated more than 300 students.

The MUD-Lab's MSc UDIP at University of Manchester is a 1 year [2 year P/T] fully RTPI accredited programme that focuses on a specialist understanding of the relationship between urban design and planning and provides students with the core competencies and knowledge to specialise in the discipline of urban design.

The programme centres around an applied studio-based approach to teaching and learning, equipping students with the fundamentals of design, skills in design development and delivery across multiple scales, and technical knowledge within the core softwares utilised in professional practice.

Students get to choose a specialist pathway when they enter semester 2 of their studies - focusing on either a balance of urban design and planning, or a full urban design experience including a design dissertation. Each student on MSc UDIP will develop their own personal design portfolio upon completion of the programme.

Modules

Core

Urban Design Studio
International Urban Design
International Planning Systems
Urban Design Project
UDIP Study Tour
Dissertation [Regular OR Design]

Optional

Masterplan Studio
Design for Healthy Places Urban
Regeneration
GI and Sustainable Cities of the South
Future Cities
Infrastructure Planning
Design Futures Studio



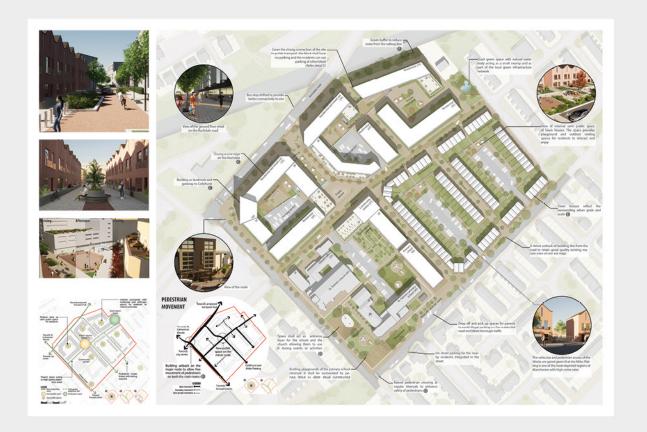


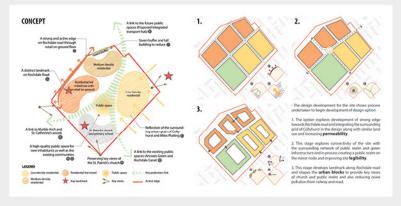


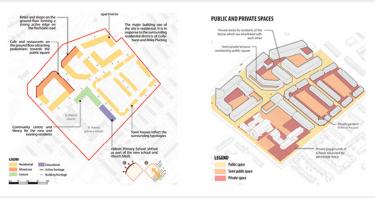
This year-long studio-based project allows students to develop a project-orientated approach to urban design; apply site analysis techniques to support urban design proposals; explore urban design principles and their relationship with practice; design and communicate an urban design scaled intervention; and develop skills of design, presentation, and 3D physical modelling.

The project involved the delivery of a detailed urban design analysis and proposed design intervention on a city centre site [approx. 4-5 ha.] in Manchester – utilising the MUD-Labs bespoke Applied Urban Design Process.

Each student's entry is for illustrative purposes only – only selected graphics/images from the full design proposal could be showcased due to space constraints.









Miles Platting, Manchester

Design Project

Student

Raghav Ajmera









Award Winner 2021

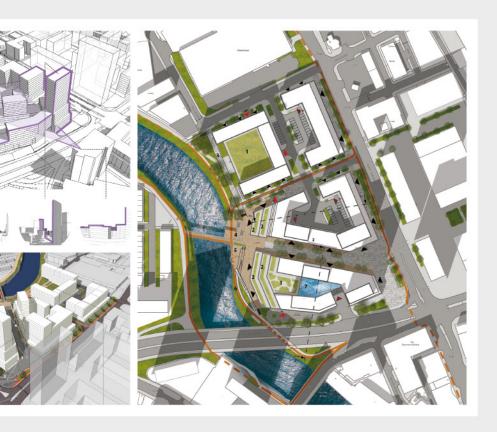
Project

New Cross, Manchester

Analysis and Design

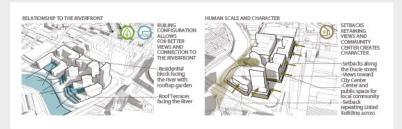
Student

Anita Collins











Proje

Cheetham Hill Road, Manchester

Analysis and Design

Student

Marina Fomina









Project

Ashton Old Road

Analysis and Design

Student

Areen Al Athamneh





Project

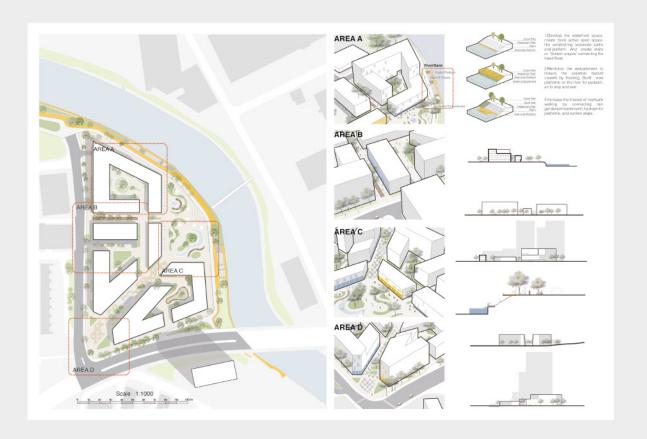
Angel Square, Manchester

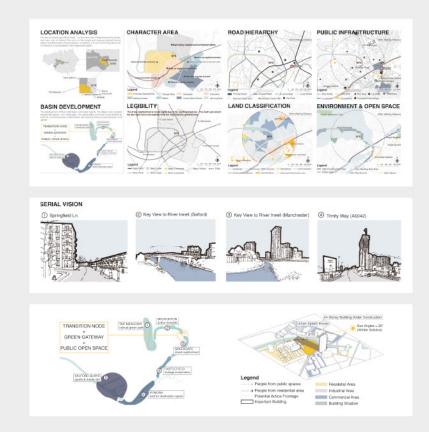
Analysis and Design

Student

Josephine Gregory





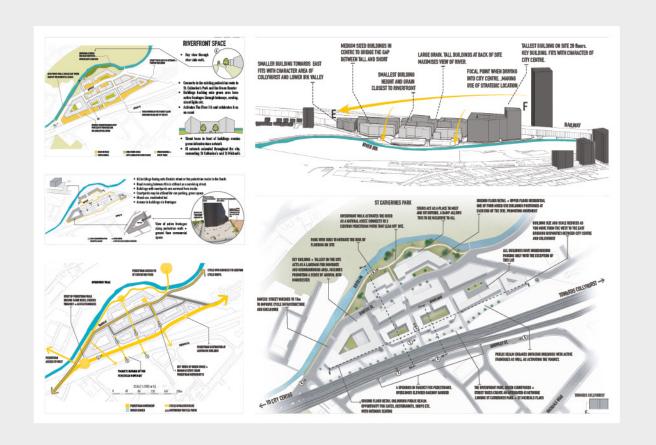


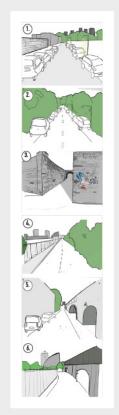
Project Irwell Riverside, Salford

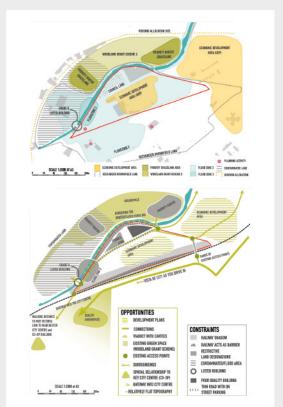
Analysis and Design

Student

Shuo Zheng





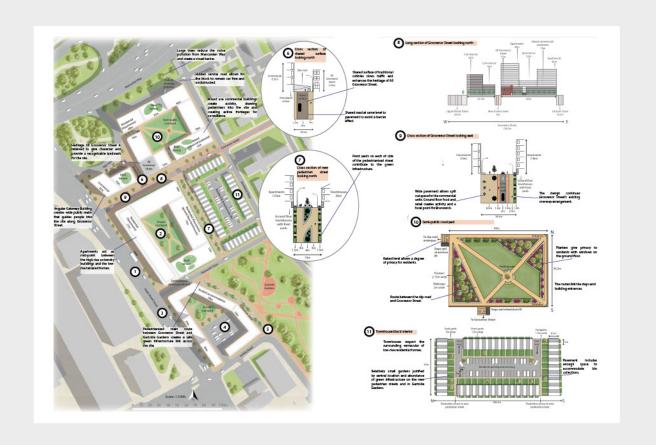


Project Irk Valley

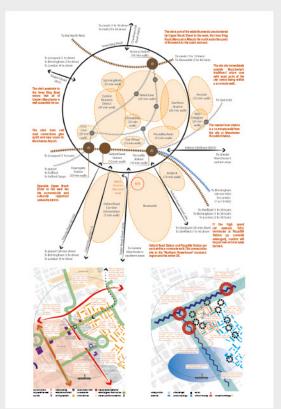
Analysis and Design

Student

Olivia Carr







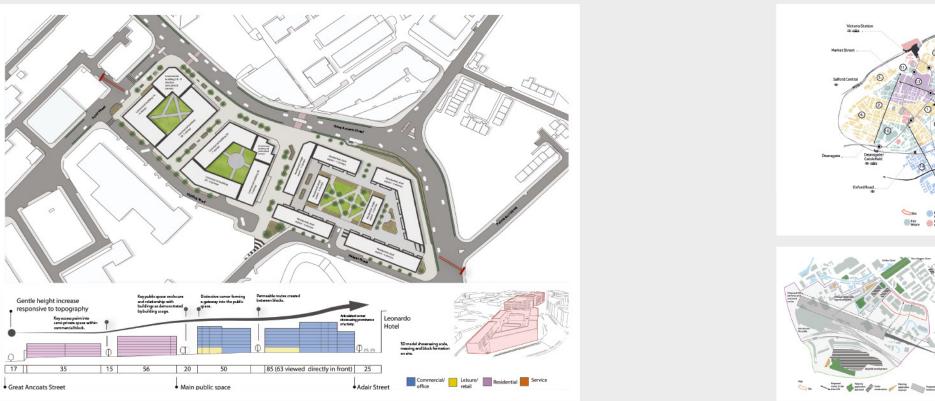
Project

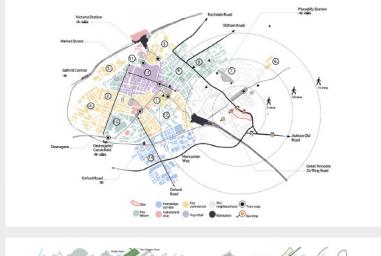
Upper Brook Street, Manchester

Analysis and Design

Student

John-Michael Chidwick







Project

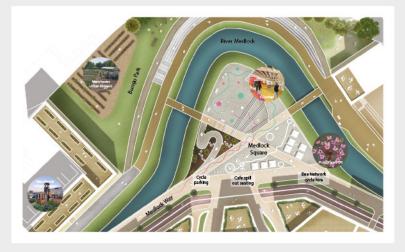
Helmet Street, Manchester

Analysis and Design

Studen

Benedict Lancaster







Project

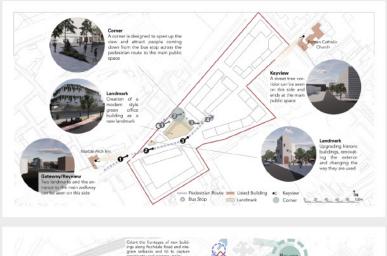
Lower Medlock, Manchester

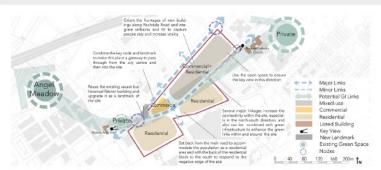
Design Project

Student

Lucie de la Mothe







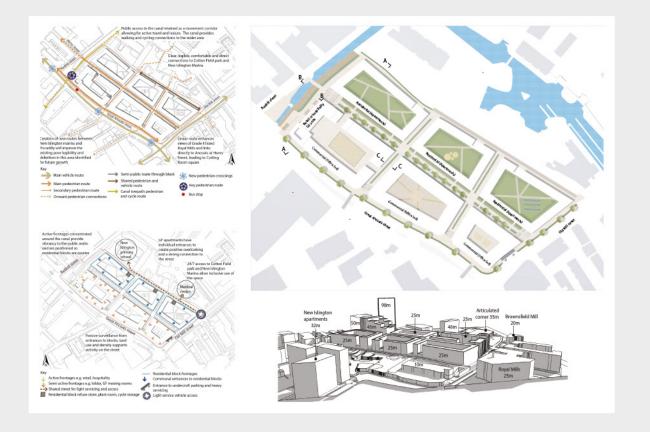
Project

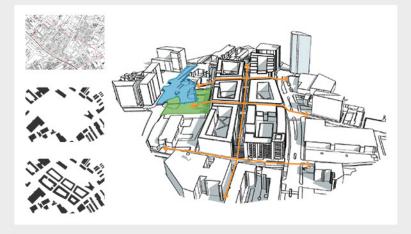
Rochdale Road, Manchester

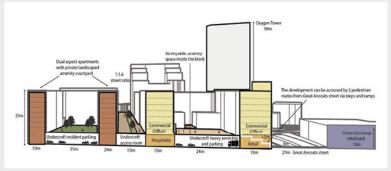
Design Project

Student

Nan Zhang







Project

Ancoats, Manchester

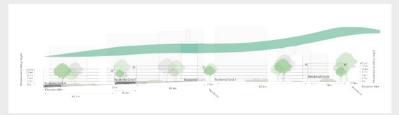
Design Project

Student

Lilly Feasby







Project

Bromley Street, Manchester

Design Project

Student

Seb Burchell







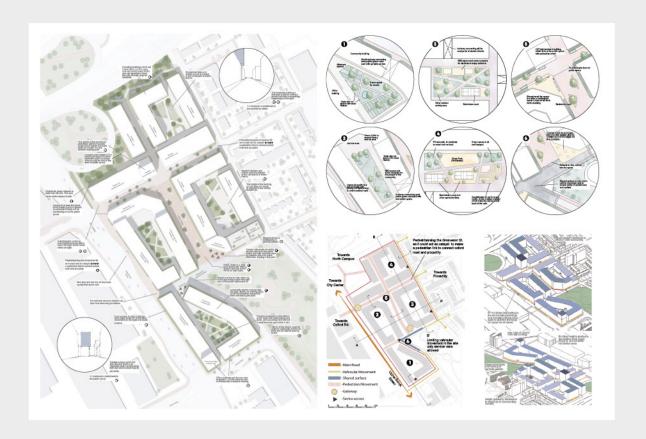
Project

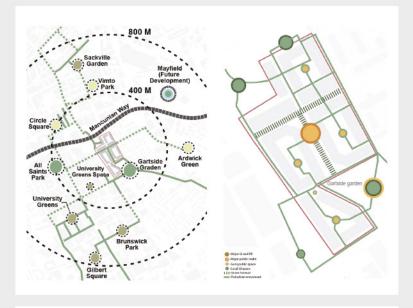
Dantzic Street, Manchester

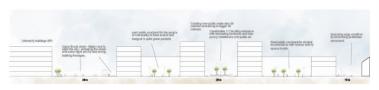
Design Project

Student

Xukan Liu







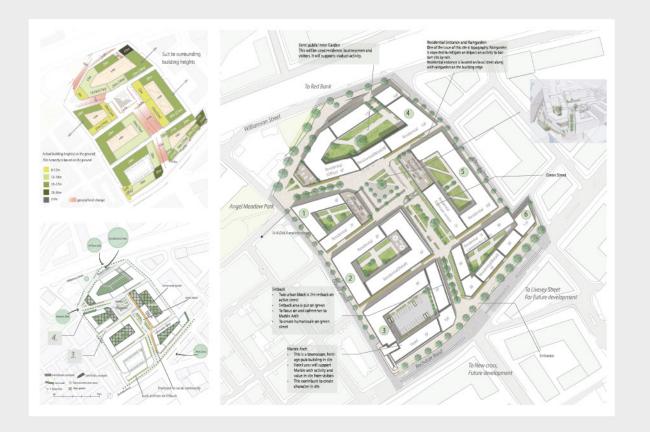
Project

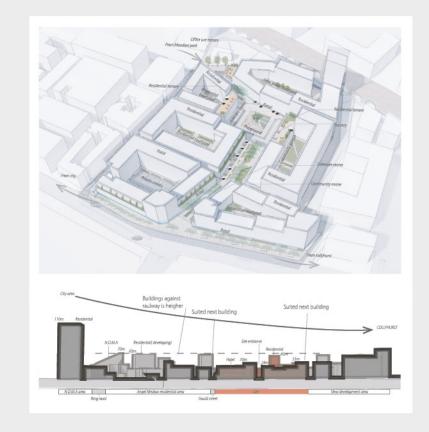
Upper Brook Street, Manchester

Design Project

Student

Raj Sahoo





Project Marble Arch, Manchester

Design Project

Student

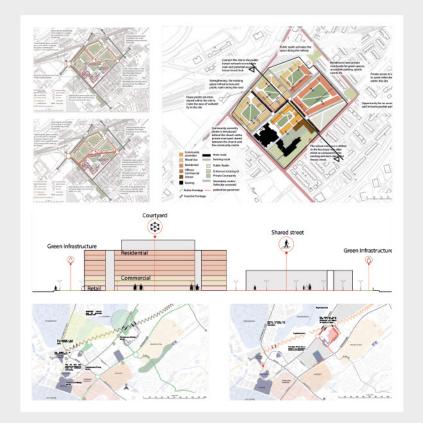
Ayumi Sadatoshi



Students on this studio-based project are tasked with responding to emerging and future urban design challenges – including climate change, informality, inclusivity, digital futures, and globalisation. Students are expected to deliver focused and more tactically aware schemes on their sites ensuring they explore international best practice and showcase an awareness of urban design composition and complexity in different contextual settings.

Each students entry is for illustrative purposes only – only selected graphics/images from the full design proposal could be showcased due to space constraints.

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Urban Design Futures

Project

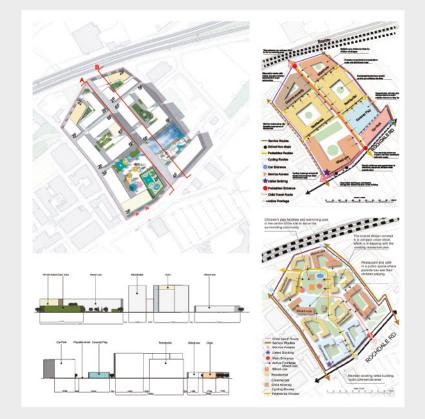
Designing for Accessibility

Miles Platting, Manchester

Students

Gayathri Mayanatt Xiaoxuan Yu

The children's playgroud is designed with basic fitness equipment and play facilities , but also with enough green space, a soft plastic floor and a sandy beach to ensure the children's health and safety. The overall community is divided between pedestrians and vehicles, with an underground are park entrance at ground level in the office area and a number of bus stops on Rochdale Road to the south, which also facilitates the car-free design of the overall community The site is surrounded by a large number of residential areas, but there is only one primary school within a 1000m radius, so the blook functions as a combination of Nursery and Residential, serving the surrounding area. to be non-toxic, themiess, child-friendly and brightly coloured to increase the overall liveliness of the The inclusion of a children's water space in the street design will increase the pedestrian orientation and attract people to the street. The best example of the Winchester Palace in London, where the existing (Shuuseall) heritage was preserved and the modern colour palette of the building was A pocket park, a central pedestrian street, a children's play area and a potential landmark building, all leading up to St Angel Meadow Park to form a landscape axis, further enhancing the overall legibility.



Urban Design Futures

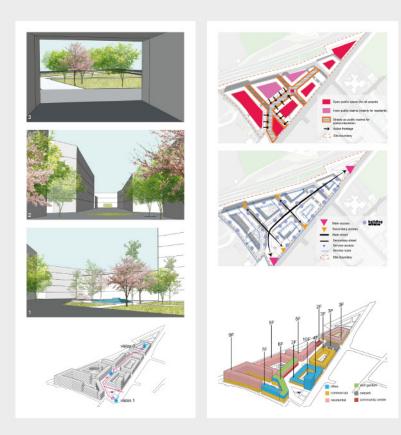
Project Inclusive Design for Children

Marble Arch, Manchester

Students

Jianxin Huang Yidan Zhang Benzhao Liu

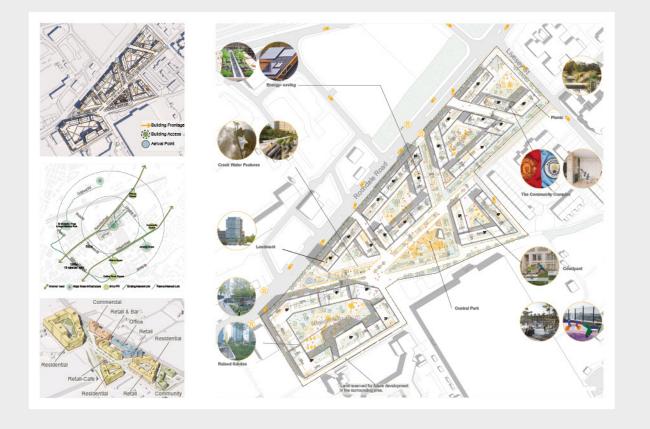


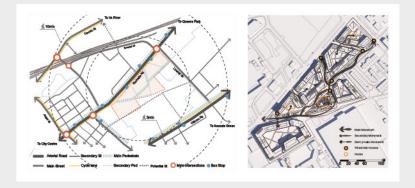


Project Sustainable Urban Design

Rochdale Road, Manchester

Student Jiayin Guo







Project Sustainable Urban Design

Rochdale Road, Manchester

Student Jihao Wang





Sustainable Urban Design

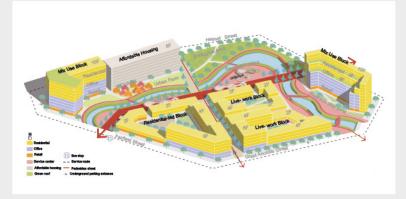
Rochdale Road, Manchester

Student

Xueqi Li







Project Sustainable Urban Design

Lower Medlock, Manchester

Student

Yanyu Yang

MUD-Lab Student Work

Masterplanning

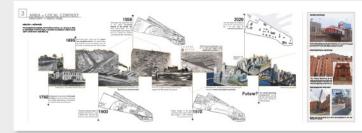
This studio-based project aims to introduce students to the process of master-planning, providing skills in analysis at larger scales; design option development and testing; working to a brief; and detailing a masterplan scheme at 2D technical, human scale detail, and illustrative 3D.

The project asks for the delivery of a spatial masterplan draft framework [group work] and technical proposal [individual] for a selected 20-25 hectare site within Greater Manchester.

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Masterplanning







Trafford Wharfside

Strategic Masterplan Framework

Students

Chris Talbot Benedict Lancaster Xingyu Li

Raghay Ajmera Xukan Liu





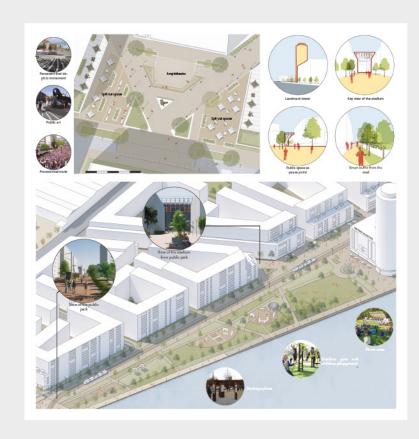


Project Trafford Wharfside

Design Project

Student

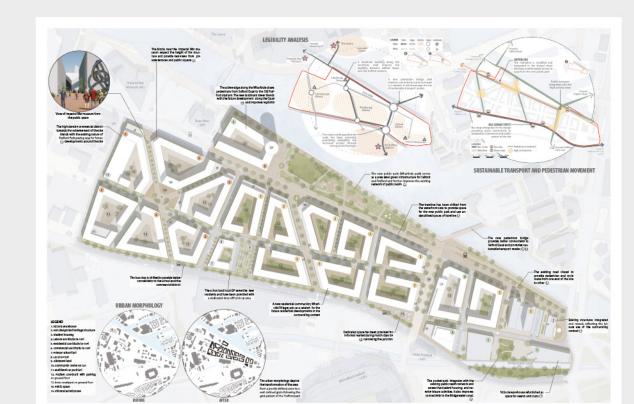
Chris Talbot



Project Trafford Wharfside

Design Project

Student Raghav Ajmera



05 AREA & LOCAL PROFILE 05 AREA & LOCAL PROFILE

Project

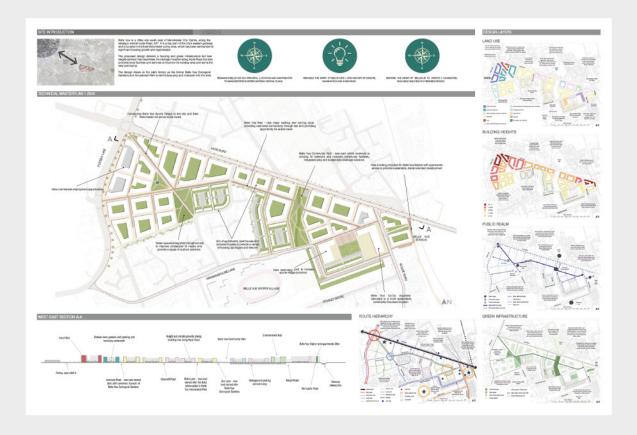
Belle Vue

Strategic Masterplan Framework

Students

Samuel Devlin Xingyu Hou Ayumi Sadatoshi Xinrui Li Lucie de la Mothe





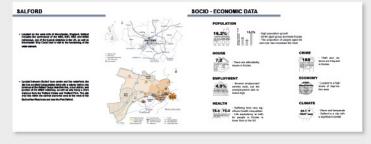


Project Belle Vue

Design Project

Student

Lucie de la Mothe







roject

Eccles Waterfront

Strategic Masterplan Framework

Students

Yu Gan

Nan Zhang Jinyao Yu Raj Sahoo Harkrishna

Harkrishna Ajayakumar

↑ Framework Document

MASTERPLAN

FRAMEWORK

Eccles Waterfront Regeneration Framework

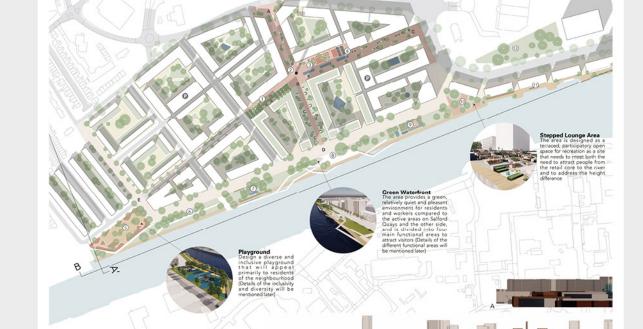


Project Eccles Waterfront

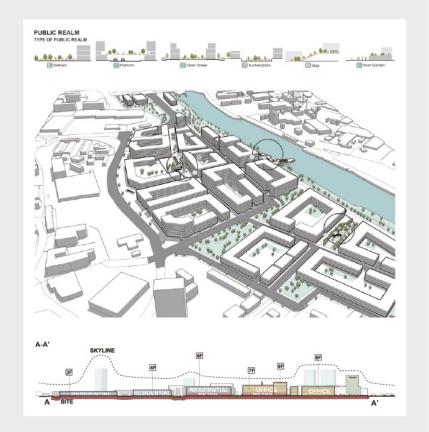
Design Project

Student

Nan Zhang







Project
Eccles Waterfront

Design Project

Student

Yu Gan







Ashton-Under-Lyne

Strategic Masterplan Framework

Students

Chris Mason Yuanji Yu Seb Burchell Zhihui Luo Yifei Zheng

ASHTON-UNDER-LYNE

DRAFT MASTERPLAN STRATEGY

22 1111 11 1111





Project Ashton-Under-Lyne

Design Project

Student Seb Burchell





Project Ashton-Under-Lyne

Design Project

Student

Yifei Zheng



Design Dissertations are the culmination of the year-long Master's programme and tests the students ability to independently complete a full in-depth design project to the highest standard. They are supported throughout by MUD-Lab specialist design tutors and supervisors. Design dissertations see the students choose their own unique urban challenge and setting.

Each student's entry is for illustrative purposes only – only selected graphics/images from the full design proposal could be showcased due to space constraints.





LDA Design Dissertation Winner 2022

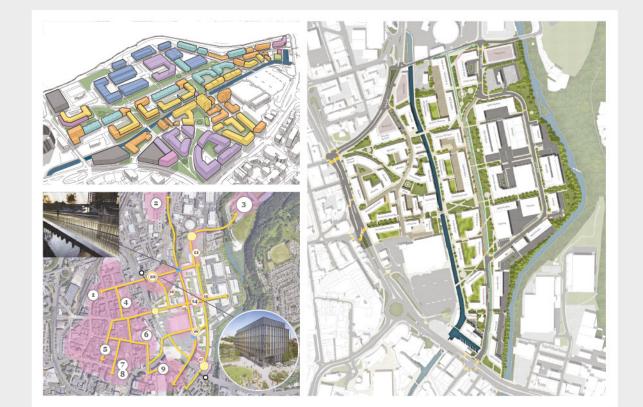
Dissertation

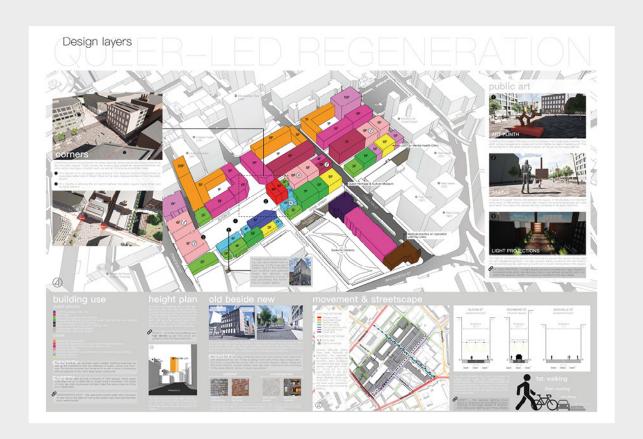
Integrating Industrial Uses into Urban Contexts

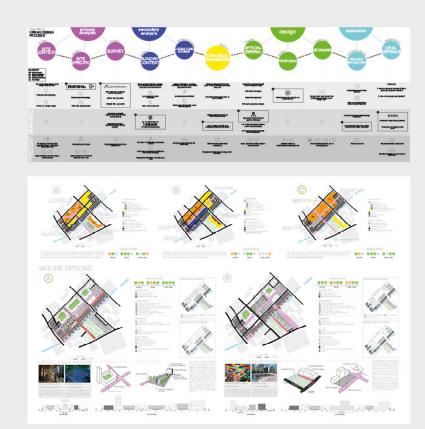
Huddersfield, UK

Student

Chris Talbot









LDA Design Dissertation Winner 2021

Dissertation

Queer-Led Regeneration

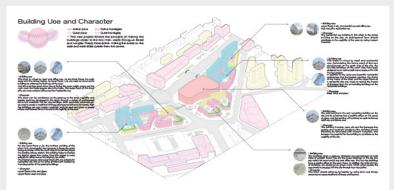
Manchester, England

Student

Joseph Greenhalgh







Dissertatio

The revitalisation of public space through urban design

Taian Inzone Mall, Shandong, China

Student

Zhongzheng Li





Urban design interventions in informal settlements

Maspero, Cairo, Egypt

Student

Mounir Aly

6.1 UPPER PARLIAMENT ST. | PARLIAMENT ST.

Major vehicular route connecting Liverpool to the Wirral and wider Merseyside, residential in the east, mixed use in the

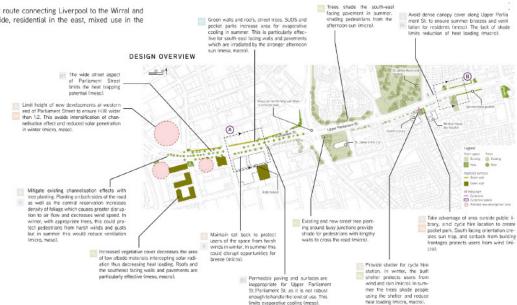
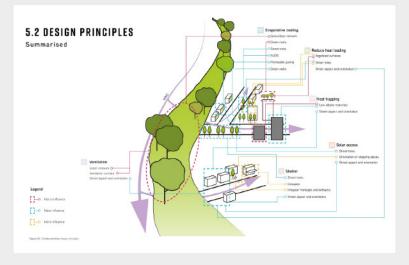


Figure 56. Design overview and evaluation against climate-sensitive design principles for Upper Parliament St./Parliament St.

ment St, to ensure summer breezes and venti-



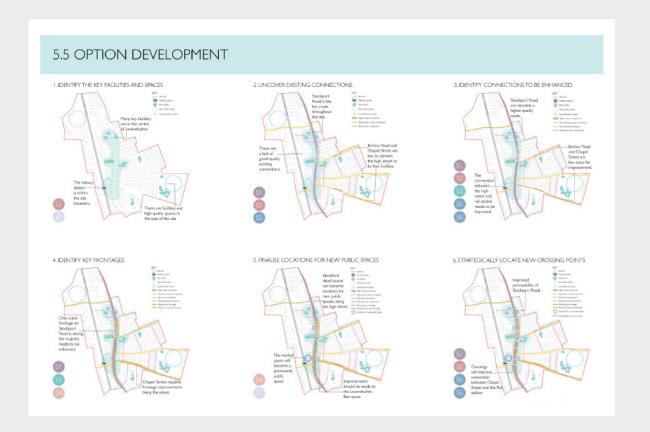


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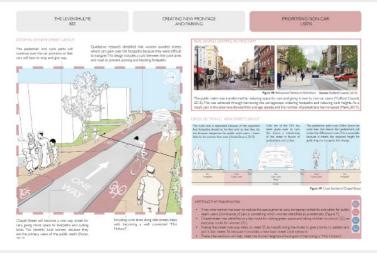
On designing thermally comfortable streets and their impact on the pedestrian realm: Lessons from the streets of Liverpool.

Manchester, England

Natalie Mortlock







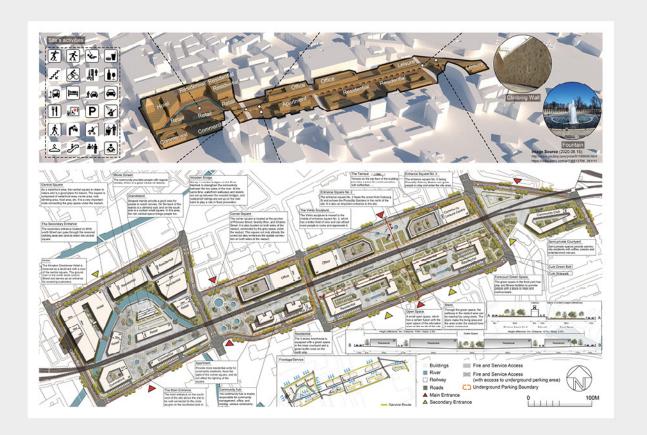
Dissertation

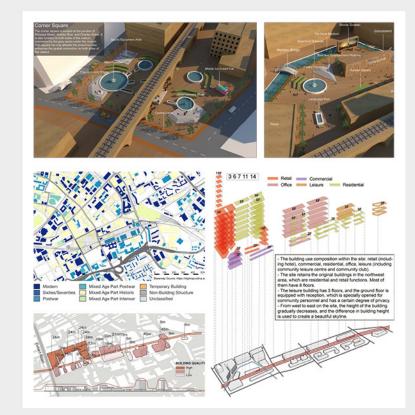
The Built EnvrionMENt: Redesigning Levenshulme's Public Realm with a Focus on Women

Manchester, England

Studen

Aime Robson





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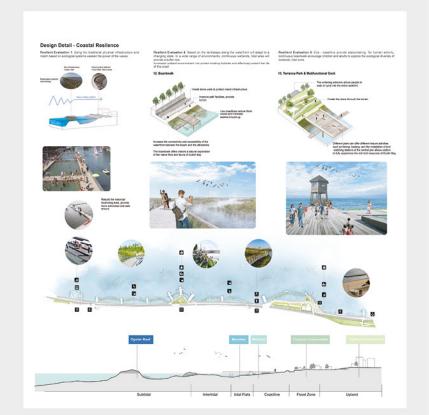
Transforming 'Grey Space': The Regeneration of the Manchester Viaduct

Manchester, England

Student

Yusong Zhuo

Blackrock- Seapoint Beach Coastline - Design Masterplan Using cyster which is rich in fretand to create cyster reef in the coastal region to help weaken the power of the waves. Wetlands help expand dynamically adapt to rising sea level and provide habitats for biological resources provide habitats Waterfront Terrace Plaza Create three multifunctional piers, provided by the central terminal, such as bird wetsh terver, previded by the central ene, the rest of the piers also provide recreational and educational functions. Boardwalk provides trail for people to experience the seaside diversity Blackrock Village Centre Bath Place Road Open Space Rock Hill Road Retail Open Space Entrance of the Green Corridor Contro Groon Pork Local Community Pedestrian Path Secondary Park Seapoint Station Junction Pedestrian Crossing Platform Seapoint Beach Blackrock Beach Blackrock Beach Blackrock Beach Redevelopment Residential area with appartment, houses provide a better view of the seaside and also improve social inclusivity. 12. Boardwalk upper Wetland 13. Terrance Park & Mutifuncial Docks



Design Dissertations

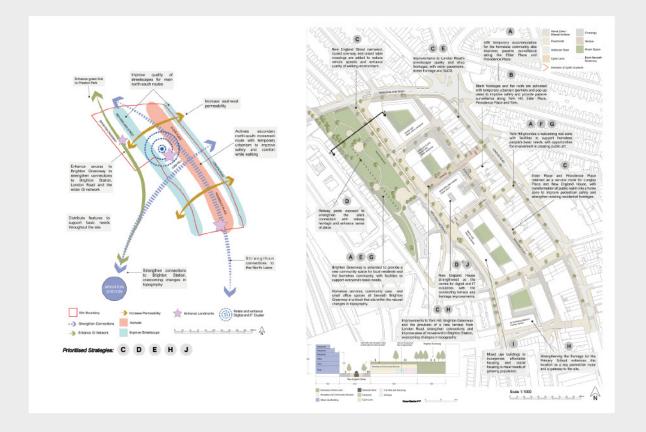
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A Coastal Response for Cities at Risk.

Blackrock - Seapoint Beach Coastline, Dublin, Ireland

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Zoutong Shen







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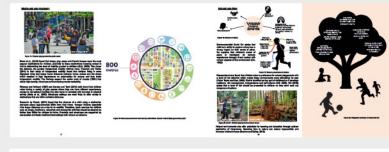
Living in public space: Urban Design to Support the Lives of Homeless People in Brighton

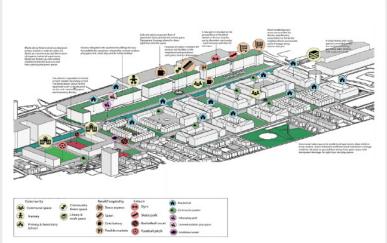
Brighton, England

Student

Johanna Dorrington

Key Features 1 Multi-generational linear park 2 Shared space street prioritising children's play 3 Activated Rochdale Canal 4 School as a community hub with welcoming and accessible facilities 5 Stage for community events/markets and creative play 6 Skate park diversifying activity offer 7 Urban play yard for messy play 8 Sustainable urban drainage (SUD) with opportunity for incidental nature play 13 Cycle storage 14 Private gardens 15 Main pedestrian and cycle bridge 16 Pedestrian bridge 17 Stepping stones





Design Dissertations

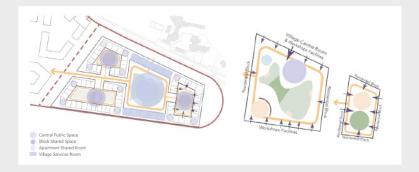
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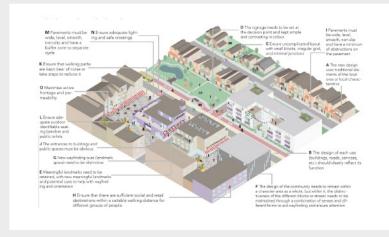
Child-Friendly Design

Miles Platting, Manchester, England

Student

Maaira Shahid





Dissertation

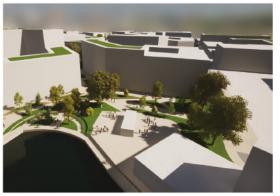
Dementia-Friendly Community Design

Leeds, UK

Student

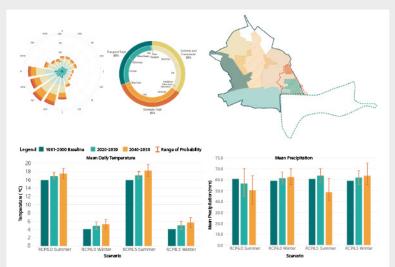
Nan Zhang











Dissertatio

Regenerating City Centres for Climate Resilience through Design

Nottingham, UK

Student

Tom Page

