

CONTACT

+61 (0) 400 38 2636
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REBEKAH ARAULLO

ACADEMIA

Doctor of Philosophy (current)
The University of Sydney

Bachelor of Architectural Computing
University of New South Wales

RESEARCH FOCUS

Critical analysis
Using Higher-Dimensional
and Spatio-Temporal
Information
Biomimicry in Urban
Design Analysis
Architectural Designs
Generative Designs
Complex Structures from
Design to Production
Spatial Computing
3D Growth Morphology
Tectonics of Reciprocal Systems
Sensorial Language in
Biomimetic Structures

PROFESSIONAL EXPERIENCE

Architectural Designs
Urban Design
Design + Build Complex Structures
University Lecturer
Start-up Founder
Research + Development

INDUSTRY AWARDS

Australian Computer Society
National Award 2019
Gold Digital Disruptor
For Urban Digital Communication

Australian Timber Design
National Award 2017
Excellence in Timber Design

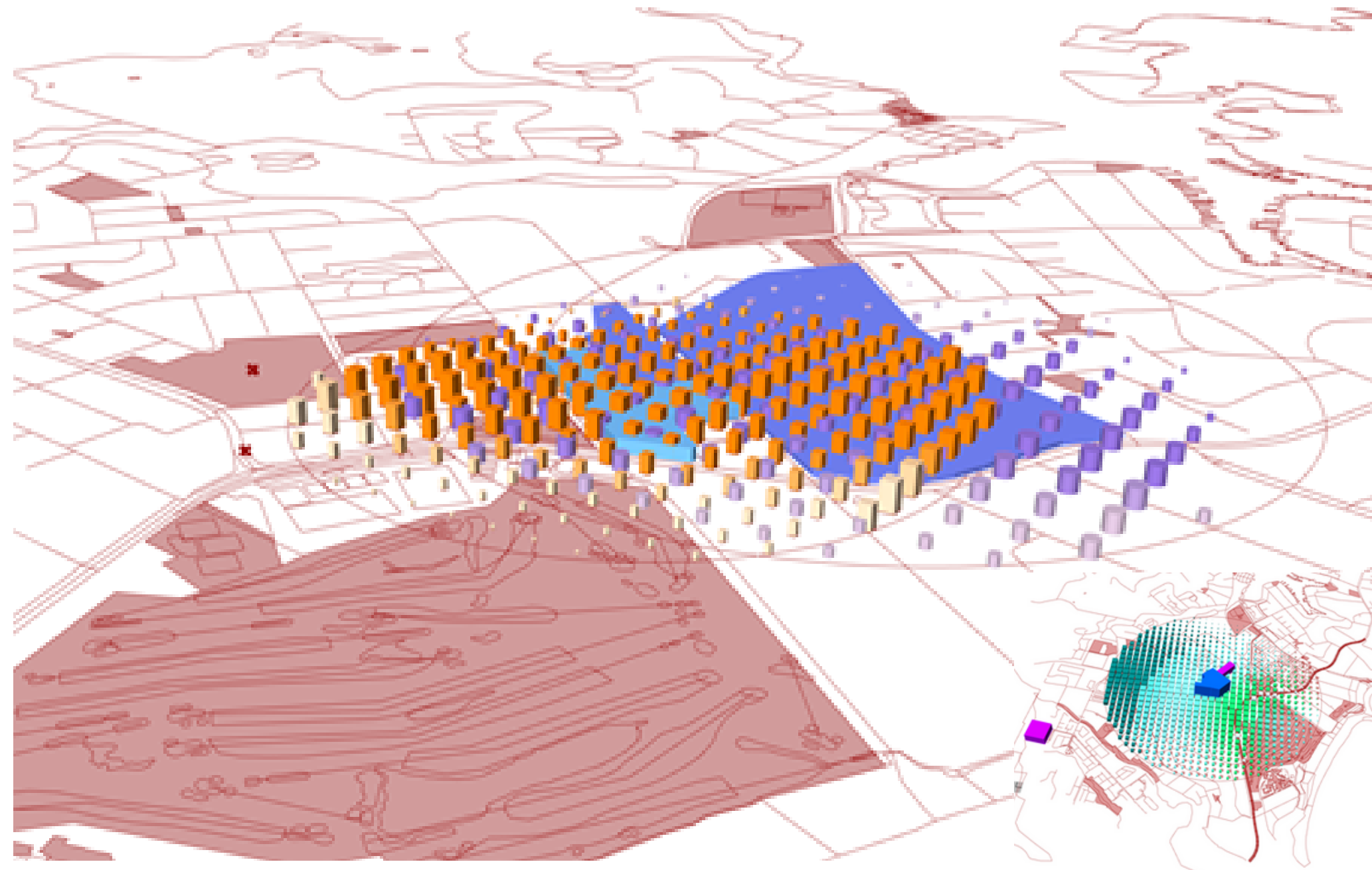
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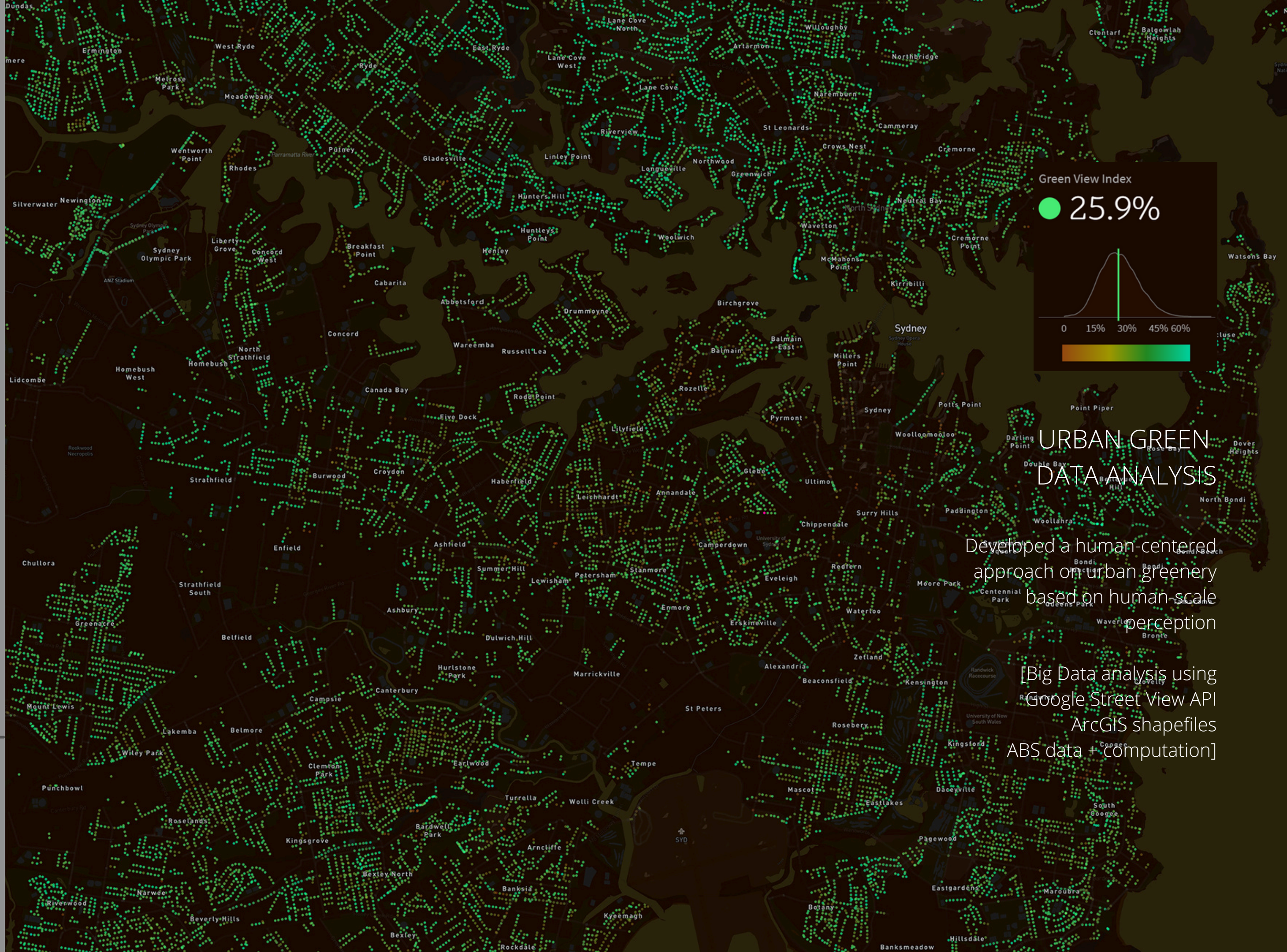
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BIOMIMICRY
IN URBAN
ANALYSIS

Northern Beaches NSW
Urban Design Study

Spatial data + ABS data
+ 3D form analyses



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URBAN GREEN DATA ANALYSIS

Developed a human-centered approach on urban greenery based on human-scale perception

[Big Data analysis using Google Street View API
ArcGIS shapefiles
ABS data + computation]

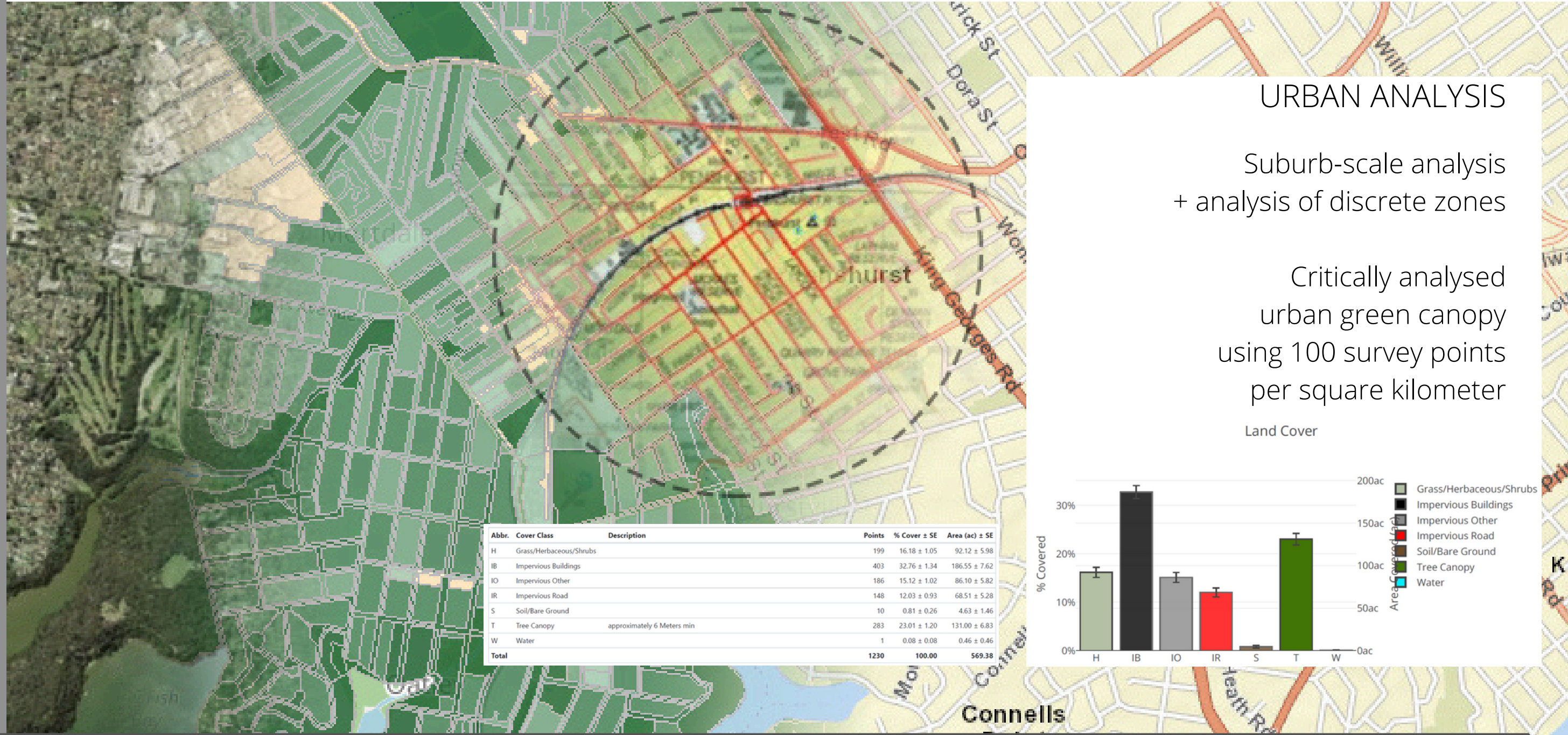
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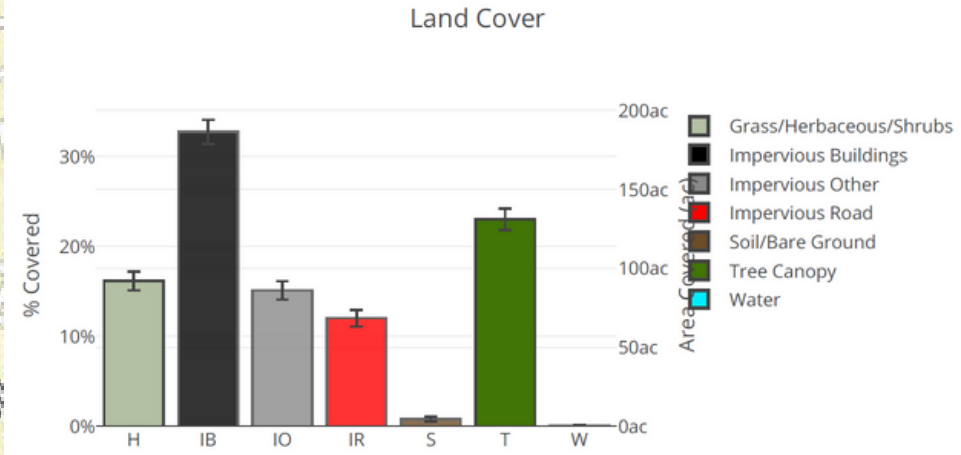


URBAN ANALYSIS

Suburb-scale analysis
+ analysis of discrete zones

Critically analysed
urban green canopy
using 100 survey points
per square kilometer

Abbr.	Cover Class	Description	Points	% Cover ± SE	Area (ac) ± SE
H	Grass/Herbaceous/Shrubs		199	16.18 ± 1.05	92.12 ± 5.98
IB	Impervious Buildings		403	32.76 ± 1.34	186.55 ± 7.62
IO	Impervious Other		186	15.12 ± 1.02	86.10 ± 5.82
IR	Impervious Road		148	12.03 ± 0.93	68.51 ± 5.28
S	Soil/Bare Ground		10	0.81 ± 0.26	4.63 ± 1.46
T	Tree Canopy	approximately 6 Meters min	283	23.01 ± 1.20	131.00 ± 6.83
W	Water		1	0.08 ± 0.08	0.46 ± 0.46
Total			1230	100.00	569.38





SYDNEY
CONSERVATORIUM
OF MUSIC
CUSTOM'S HOUSE
AMP BUILDING

TOWER TWO, INTERNATIONAL TOWERS
TOWER ONE, SERVCORP

3D URBAN STUDY

Developed 3D assets
+ XR interaction
using OSM and
spatial data
for use in
engagement
interaction and
Extended Reality
Landcom Accelerator

BARANGAROO
RESERVE

CIRCULAR QUAY
WHARF

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ABORIGINAL COMMUNITY ENGAGEMENT AND COMMUNICATION STRATEGY

PAMS HEALTHCARE
JIGALONG, WA

Very Remote community
engagement and
strategy for new
healthcare centres
in Punmu, WA and
Parnngurr, WA
communities

Consultancy: Developed
community collaboration
strategy using Extended Reality
for stakeholder participation
and engagement

Received the ACS National Award
for Gold Digital Disruption in
Digital Communication



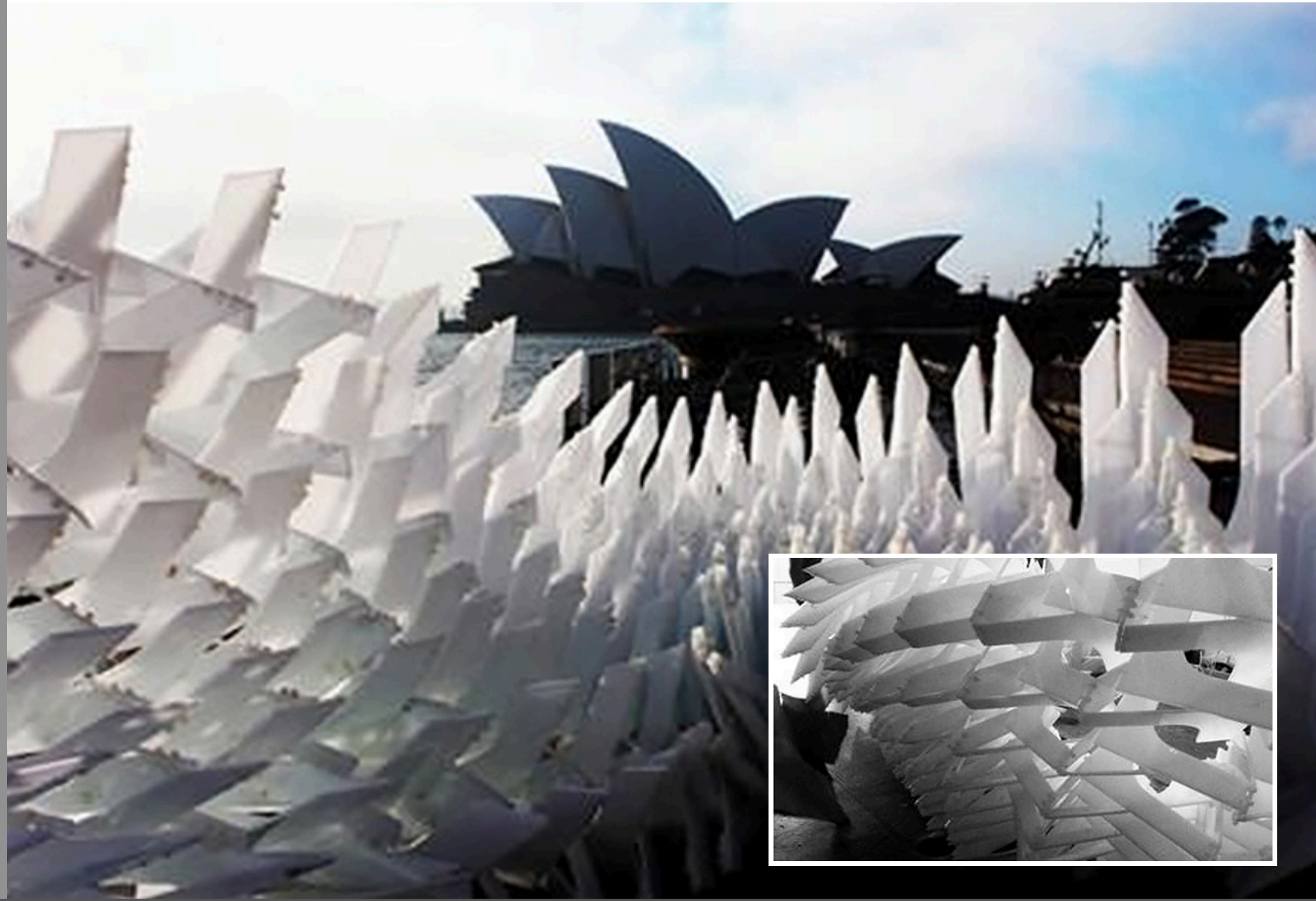
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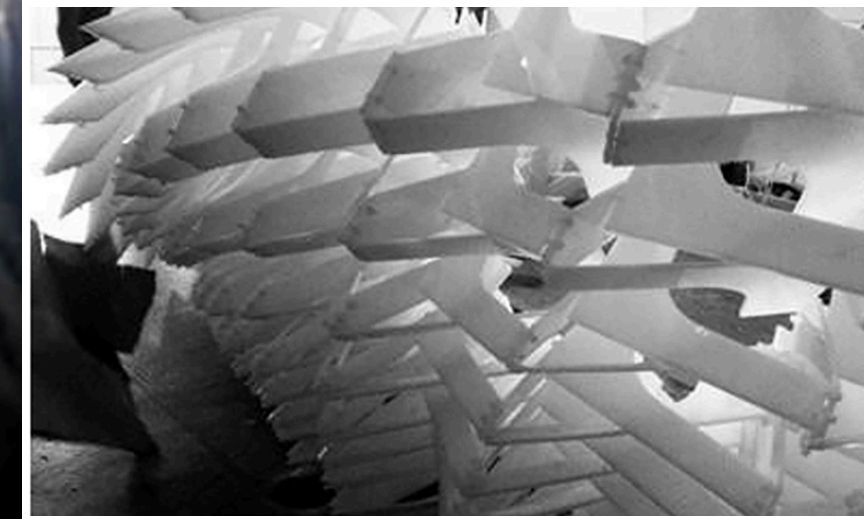
EUPHONIOUS MOBIUS

GENERATIVE RECIPROCAL SYSTEM

Design + Build
Campbell's Cove, The Rocks
For Destination NSW and
Vivid Sydney Festival (2013)

Designed, produced
and project managed
the delivery of a full-scale
complex structure for
site specific spatial
intervention

Computational Design
+ Generative Algorithms
+ Digital Fabrication



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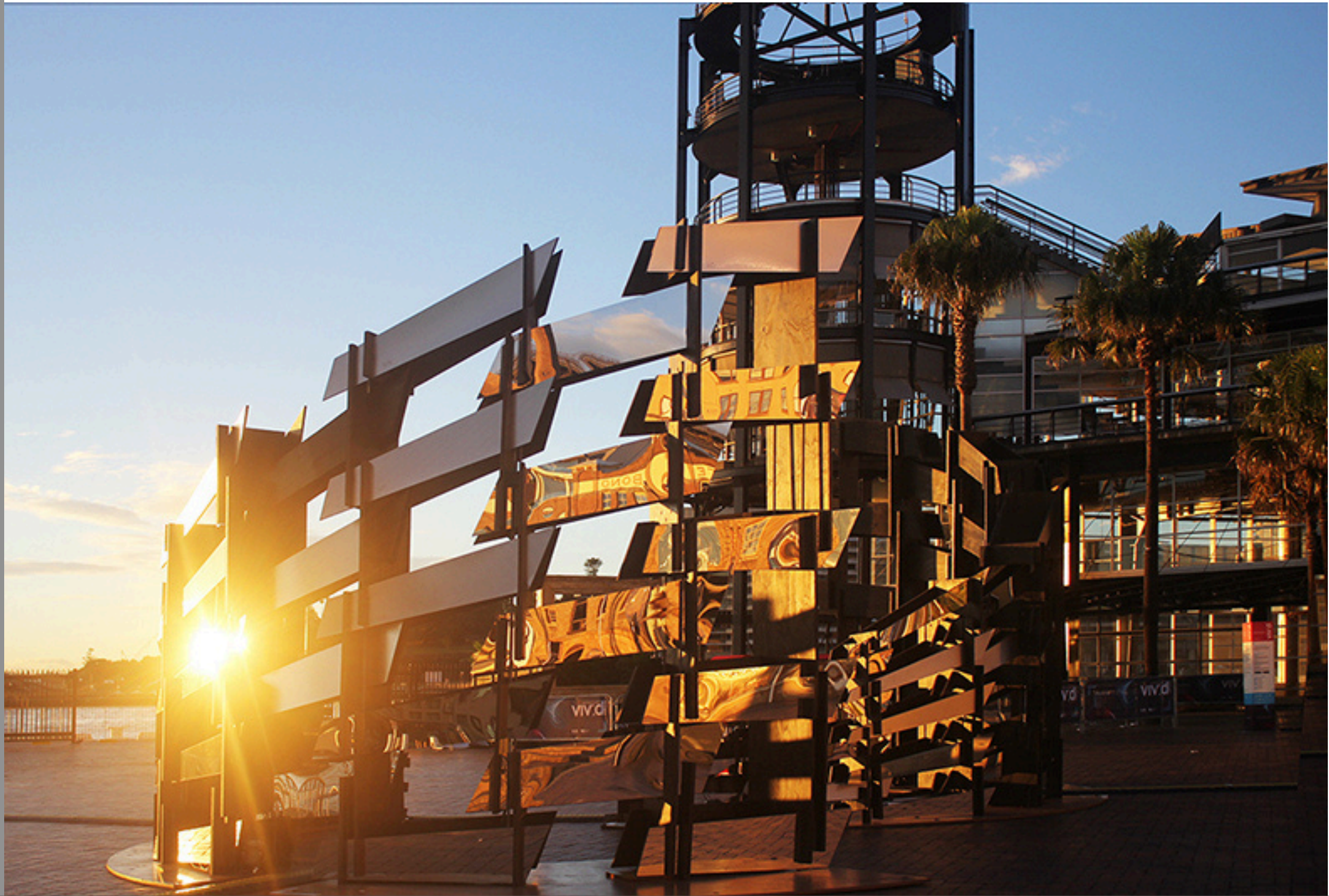
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REBEKAH ARAULLO

Led engineering and interdisciplinary teams through engineering fabrication and installation process
Bump in/ bump out





PTOLEMi
GENERATIVE RECIPROCAL SYSTEM

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through engineering
fabrication and
installation process
Bump in/ bump out



Received a national award
Australian Timber Design
Excellence in Timber Design
for use of sustainable practices
in innovative design and
digital engineering

ENTRY 191

GREEN SQUARE AQUATIC CENTRE
AND GUNYAMA PARK

BUILDING AND URBAN DESIGN

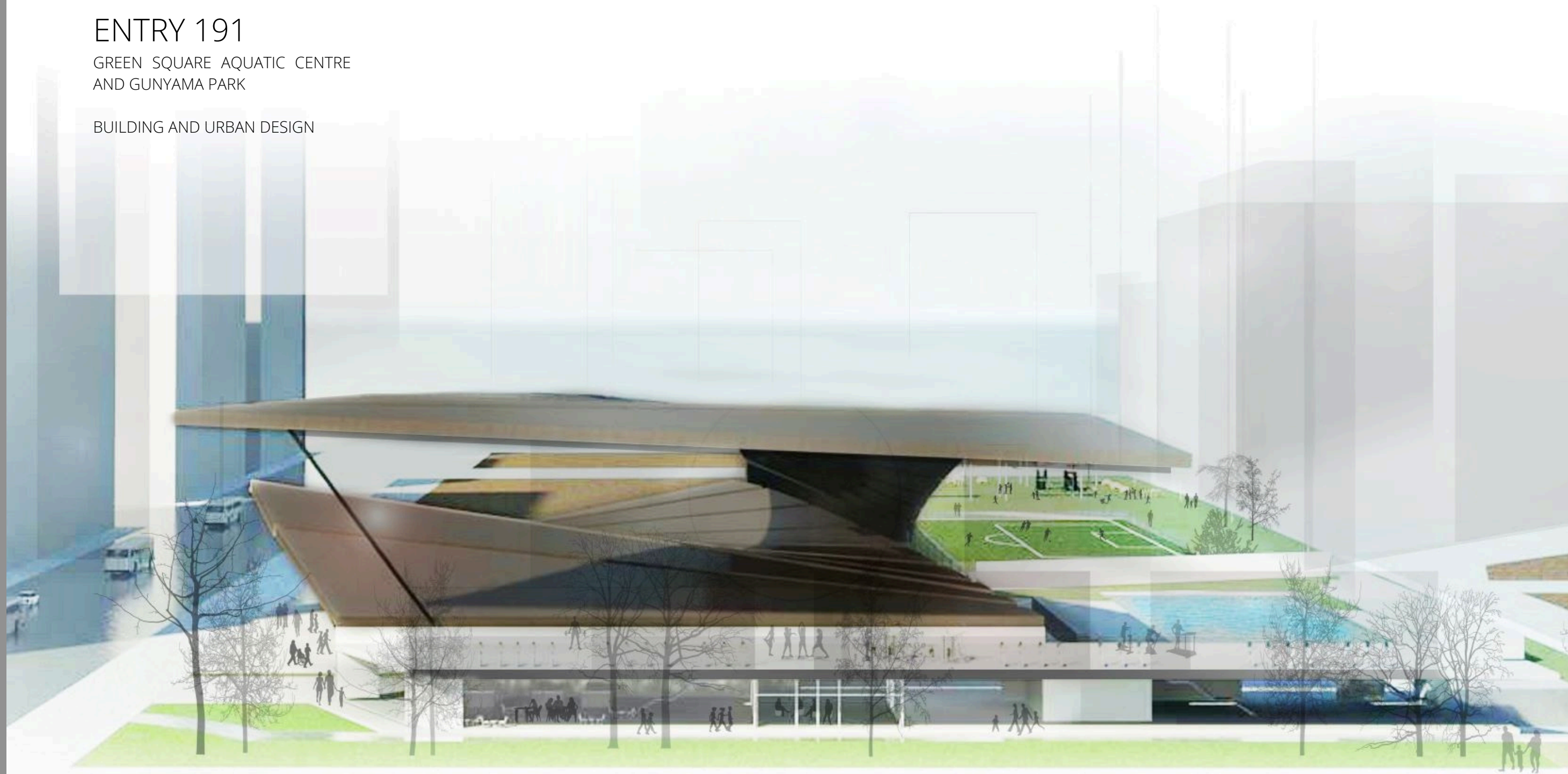
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JOYNTON AVENUE

International Competition Entry 2013
Designed and documented a large scale
public building and urban space

RODD POINT - NEW HOME DESIGN (BUILT 2017)



SKENDER HOUSE | ARAULLO 2017



OATLEY - NEW MULTI-RES DESIGN (BUILT 2013)



FIVE DOCK - BASEMENT GARAGE STUDIO + EXT

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BEXLEY - NEW HOME DESIGN (BUILT 2014)



VARIOUS ARCHITECTURAL DESIGNS

CURATED WORK

RESIDENTIAL DESIGN : NEW + EXTENSION + ADDITION

Design and Project Managed
Residential Projects



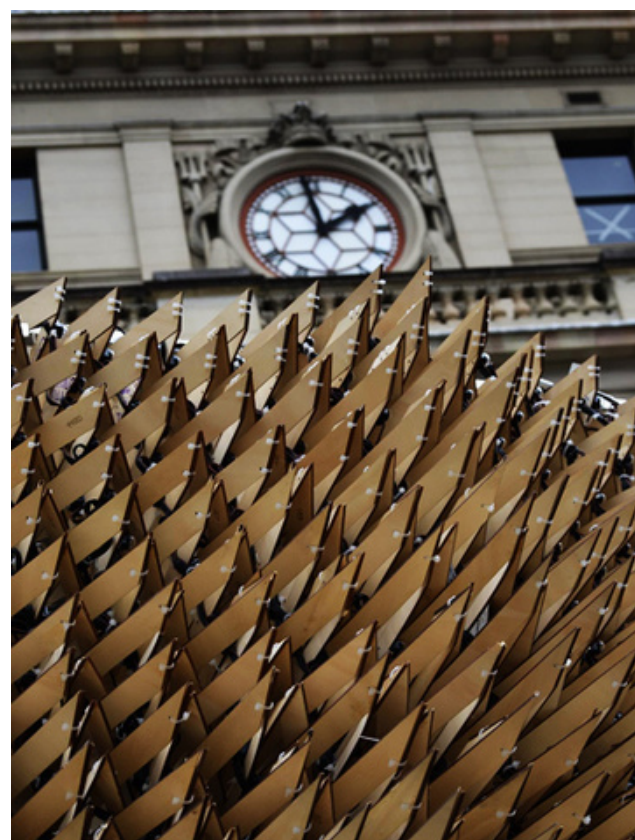
MAAS - DESIGNER IN RESIDENCE



POWERHOUSE MUSEM - INSTALLATION



INTERACTIVE XR - BONDI TREEHOUSE



CUSTOMS HOUSE FORECOURT
PUBLIC INSTALLATION



COMPLEX RECIPROCAL SYSTEM +
ROBOTIC FABRICATION

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REBEKAH ARAULLO

VARIOUS PROJECTS

CURATED WORK
DESIGN INNOVATION + DEVELOPMENT

Design + Project Management + Delivery
Public Small-Scale Projects

Using BIM, Algorithmic Generative
Computational Strategies
+ Digital Fabrication for
Public Engagement

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CURATED WORK

PUBLICATIONS

- 2018 Sensorial Language in Biomimetic Structures: Form and Media to Convey Coral Bleaching in the Great Barrier Reef
Journal of Arts and Humanities, Vol 7, No 11
- 2018 3D Growth Morphology – Tectonics of Custom Shapes in Reciprocal Systems
CAADRIA 23rd International Conference, Beijing, China
- 2017 Asymmetrical Double-Notch Connection System in Planar Reciprocal Frame Structures
CAADRIA 22nd International Conference, Suzhou, China
- 2015 Smart Architecture-Bots and Industry 4.0 Principles for Architecture
eCAADe 33rd International Conference, Vienna, Austria

ON-LINE TUTORIALS

Computational Design, Generative Design, Grasshopper 3D Scripting, Digital Fabrication, Gaming Environments, Augmented Reality

Strategic Planning & Advisory Committee Member - Bayside Council - 2016-17

OTHER RELEVANT WORK | ROLES

- 2017- present Academic | Lecturer | Workshop Facilitator
University of Sydney
School of Architecture Design & Planning
Algorithmic Architecture, Generative Design & Digital Fabrication
School of Environmental & Life Sciences
Programming in Processing – Data Management & Visualisation
- 2017 - 2018 Sessional Academic, Masters Architectural Design Research
University of Sydney, School of Architecture, Design and Planning,
Masters of Architecture
- 2016 - 2017 Sessional Lecturer, Academic staff
University of Sydney, School of Architecture, Design and Planning,
Design Lab | 3D Digital Design | Digital Fabrication
- JDec '13- Dec '17 Associate Lecturer (Part-time, permanent staff)
UNSW Faculty of the Built Environment
Computational Design, Built Environment Interdisciplinary Learning,
Digital Fabrication, Design Studio
- 2009 - 2014 Building Designer
Various projects

AUGMENTED REALITY PROJECTS

- 2019 Landcom Accelerator
2019 Spark Festival, City of Sydney
2018 Nhulunbuy Aged Care Centre, Nhulunbuy, NT |
for AARCS, Kaunitz & Yeung Architects
2018 Bondi Treehouse, Bondi NSW |
for Mark Shapiro Architects
2015 Vivid Sydney Festival, The Rocks
2014 Powerhouse Museum Sydney Design