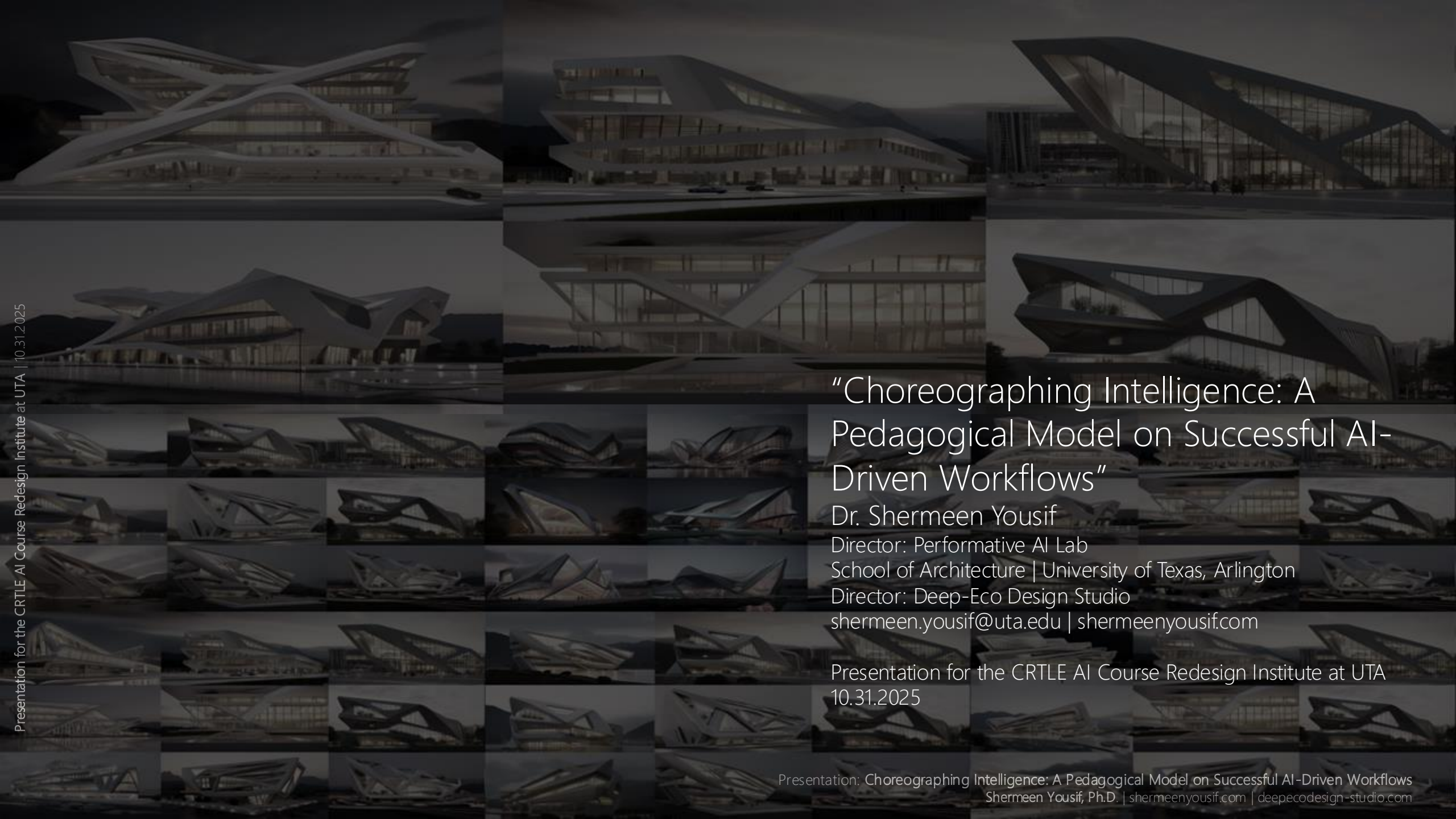


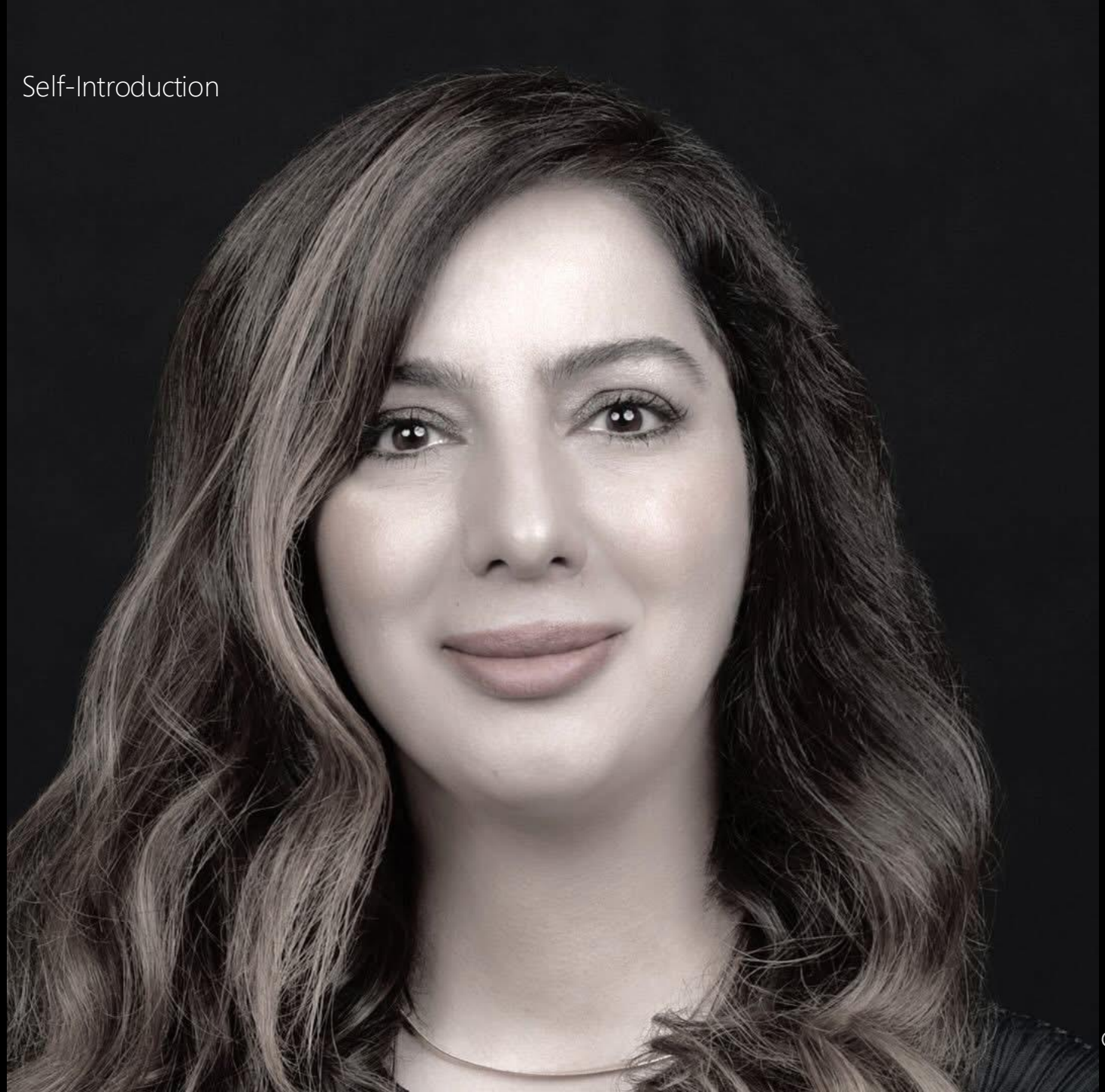
“Choreographing Intelligence: A Pedagogical Model on Successful AI-Driven Workflows”

Dr. Shermeen Yousif
Director: Performative AI Lab
School of Architecture | University of Texas, Arlington
Director: Deep-Eco Design Studio
shermeen.yousif@uta.edu | shermeenyousif.com

Presentation for the CRTLE AI Course Redesign Institute at UTA
10.31.2025

Presentation for the CRTLE AI Course Redesign Institute at UTA | 10.31.2025

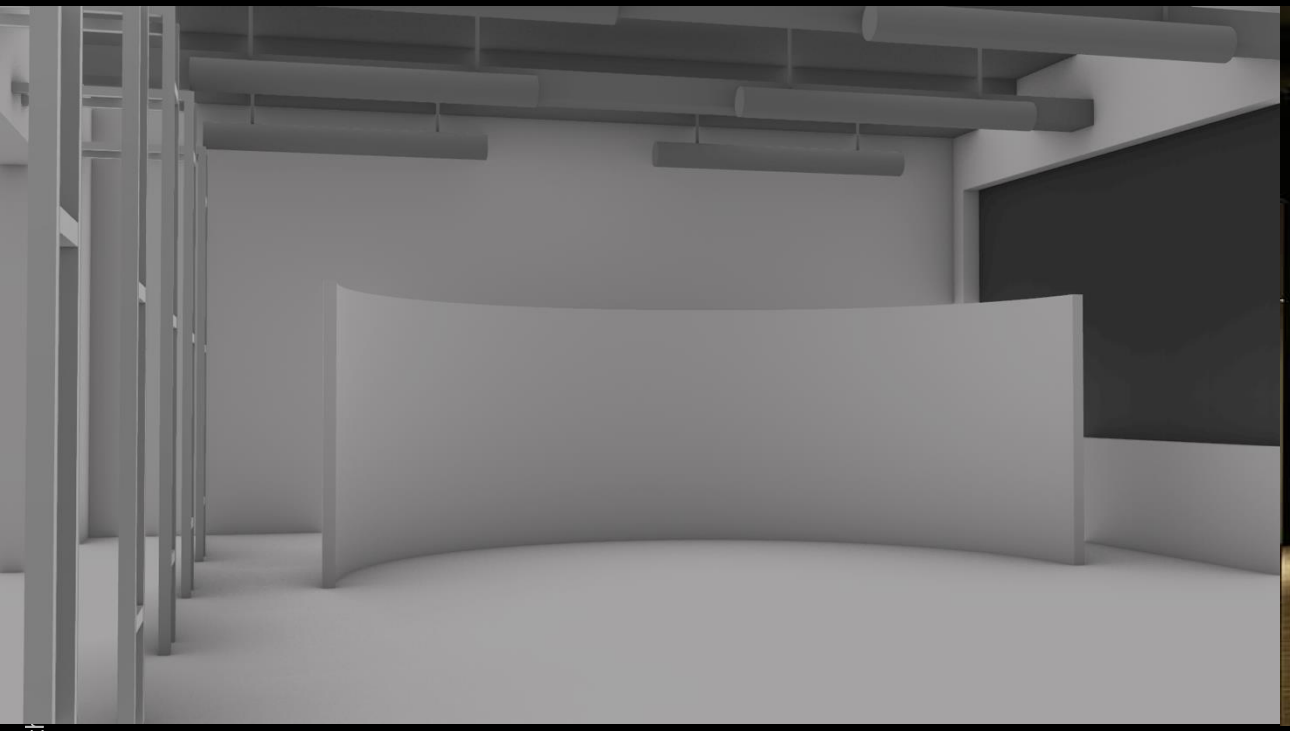
Self-Introduction



Dr. Shermeen Yousif
School of Architecture | University of Texas, Arlington
Director: ***Performative AI Lab***
Director and Founder of ***Deep-Ecology Design Studio***

PhD. in Architecture, Texas A&M University
M.Arch. Dessau Institute of Architecture, at the Bauhaus
B.Sc. in Architectural Engineering, University of Baghdad

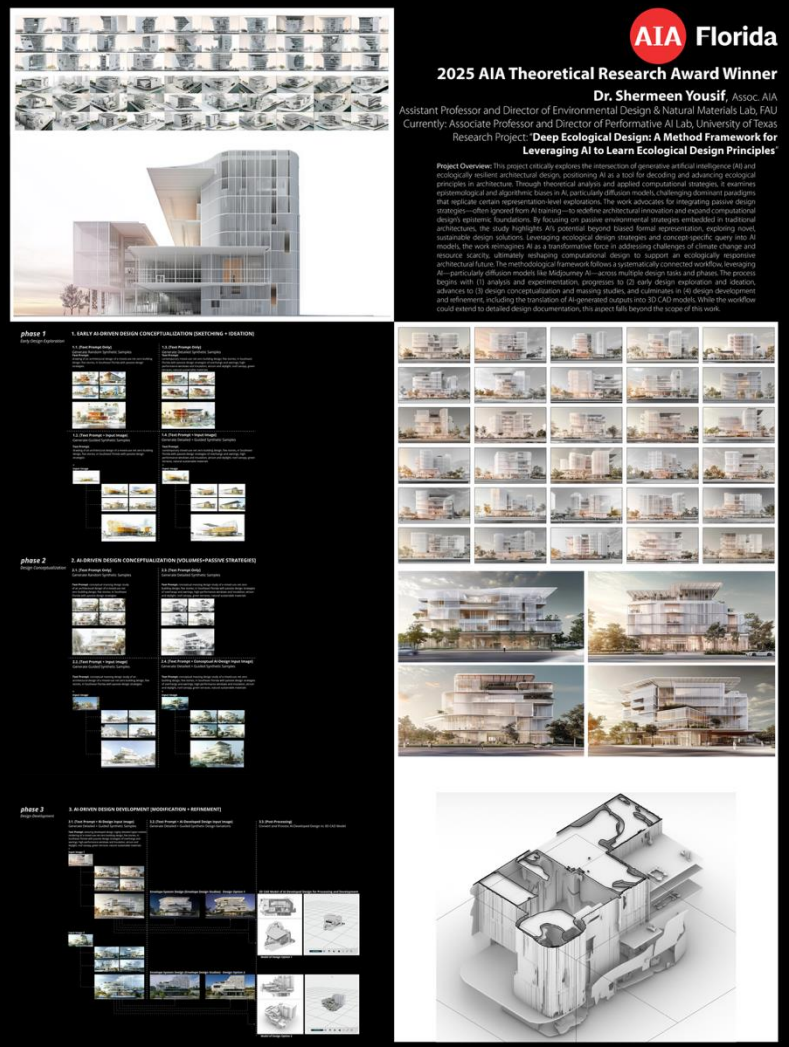
Performative AI Research Lab at the School of Architecture, CAPPA, University of Texas, Arlington



Presentation for th

PROFESSIONAL WORK | SELECTED PROJECTS (2019-2025)

AIA FLORIDA AWARD 2025 | Deep Ecological Design: A Method Framework for Leveraging AI to Learn Ecological Design Principles



AIA Florida

2025 AIA Theoretical Research Award Winner

Dr. Shermeen Yousif, Assoc. AIA

Assistant Professor and Director of Environmental Design & Natural Materials Lab, FAU

Currently: Associate Professor and Director of Performative AI Lab, University of Texas

Research Project: "**Deep Ecological Design: A Method Framework for Leveraging AI to Learn Ecological Design Principles**"

Project Overview: This project critically explores the intersection of generative artificial intelligence (AI) and ecologically resilient architectural design, positioning AI as a tool for decoding and advancing ecological principles in architecture. Through theoretical analysis and applied computational strategies, it examines epistemological and algorithmic biases in AI, particularly diffusion models, challenging dominant paradigms that replicate certain representation-level explorations. The work advocates for integrating passive design strategies—often ignored from AI training—to redefine architectural innovation and expand computational design's epistemic foundations. By focusing on passive environmental strategies embedded in traditional architectures, the study highlights AI's potential beyond biased formal representation, exploring novel, sustainable design solutions. Leveraging ecological design strategies and concept-specific query into AI models, the work reimagines AI as a transformative force in addressing challenges of climate change and resource scarcity, ultimately reshaping computational design to support an ecologically responsive architectural future. The methodological framework follows a systematically connected workflow, leveraging AI—particularly diffusion models like Midjourney AI—across multiple design tasks and phases. The process begins with (1) analysis and experimentation, progresses to (2) early design exploration and ideation, advances to (3) design conceptualization and massing studies, and culminates in (4) design development and refinement, including the translation of AI-generated outputs into 3D CAD models. While the workflow could extend to detailed design documentation, this aspect falls beyond the scope of this work.

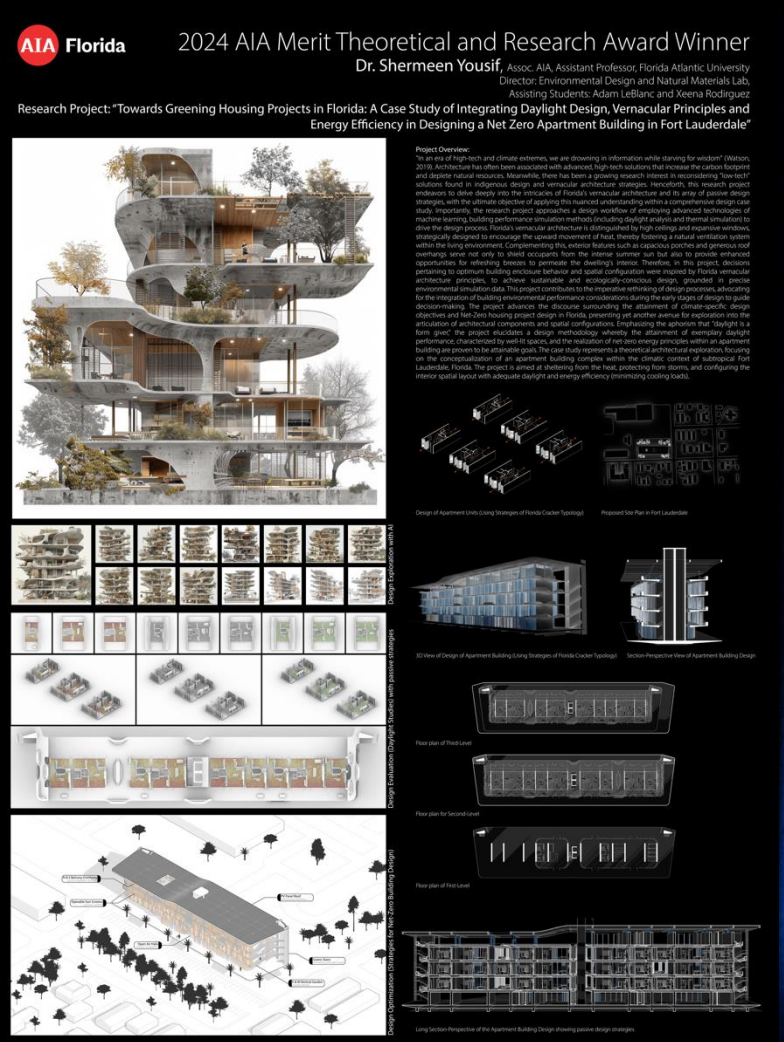
Presentation for the CRTLE AI Course Redesign Institute at UTA | 10.31.2025

Presentation: Choreographing Intelligence: A Pedagogical Model on Successful AI-Driven Workflows

Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

PROFESSIONAL WORK | SELECTED PROJECTS (2019-2025)

AIA FLORIDA AWARD 2024 | Towards Greening Housing Projects in Florida: A Case Study of Integrating Daylight Design, Vernacular Principles and Energy Efficiency in Designing a Net Zero Apartment Building in Fort Lauderdale



Presentation: Choreographing Intelligence: A Pedagogical Model on Successful AI-Driven Workflows

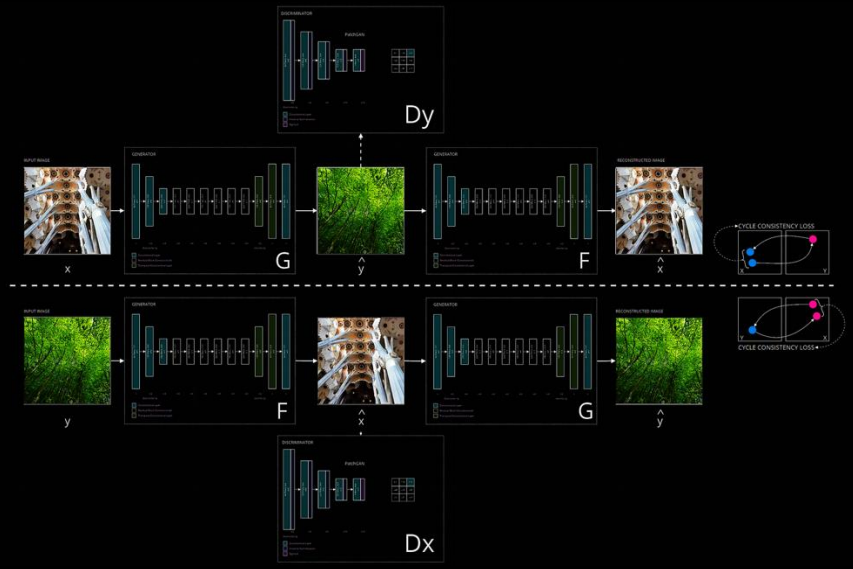
Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

On Artificial Intelligence (AI) and Creativity: How can AI augment creativity in the design process?
On AI and Agency: How to address and augment design agency?
How to evaluate AI-Driven design systems?

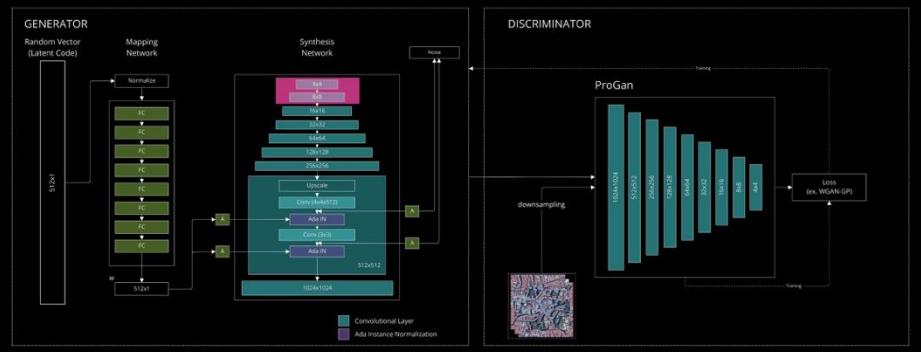
Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

AI + CREATIVITY | GENERATIVE ADVERSARIAL NETWORKS

CycleGAN



StyleGAN



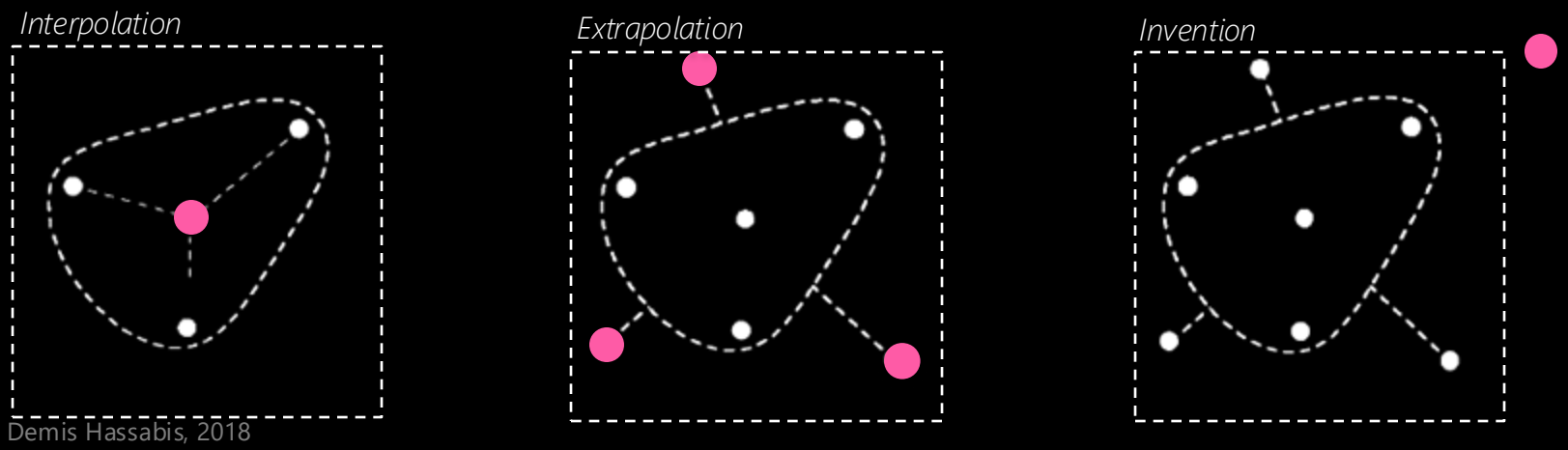
AI + CREATIVITY | GENERATIVE ADVERSARIAL NETWORKS

CycleGAN Zhu et al., 2017

AI + CREATIVITY | GENERATIVE ADVERSARIAL NETWORKS

StyleGAN 2 NVIDIA. 2019

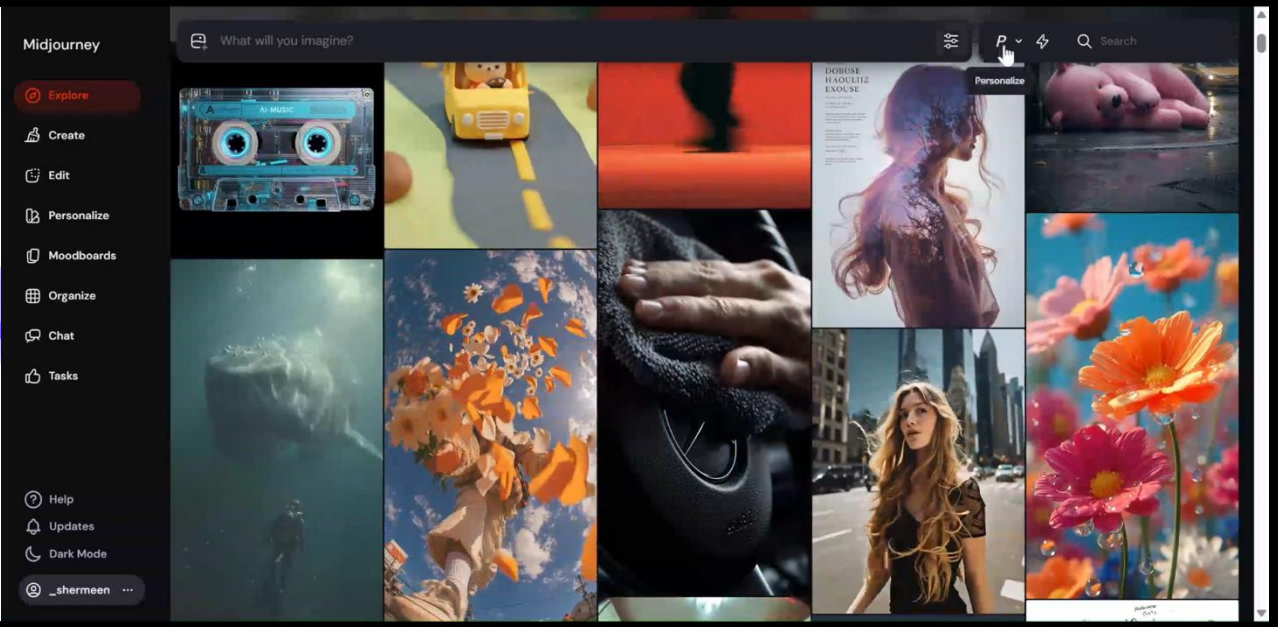
AI + CREATIVITY | EXPERT SYSTEMS VS LEARNING SYSTEMS



Demis Hassabis, 2018

AI + CREATIVITY | DIFFUSION MODELS

xFigura ai by George Guida and his team. 2025.

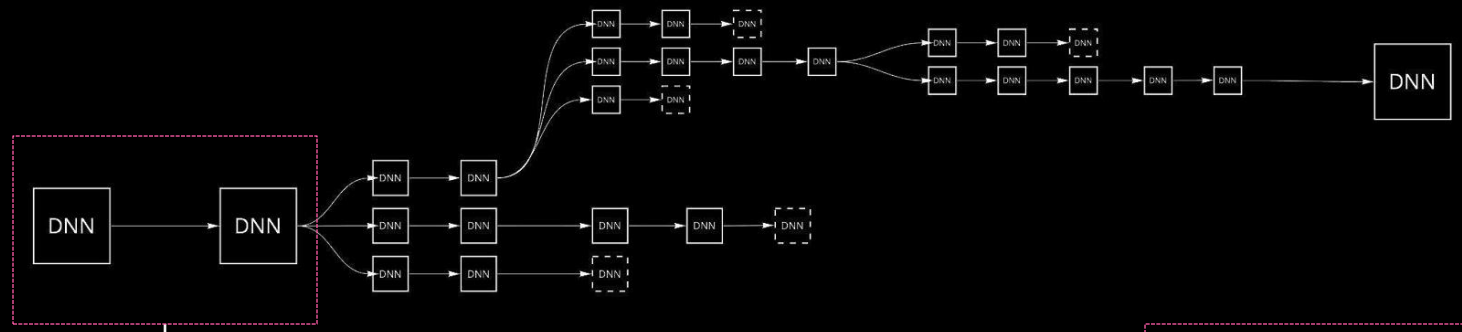


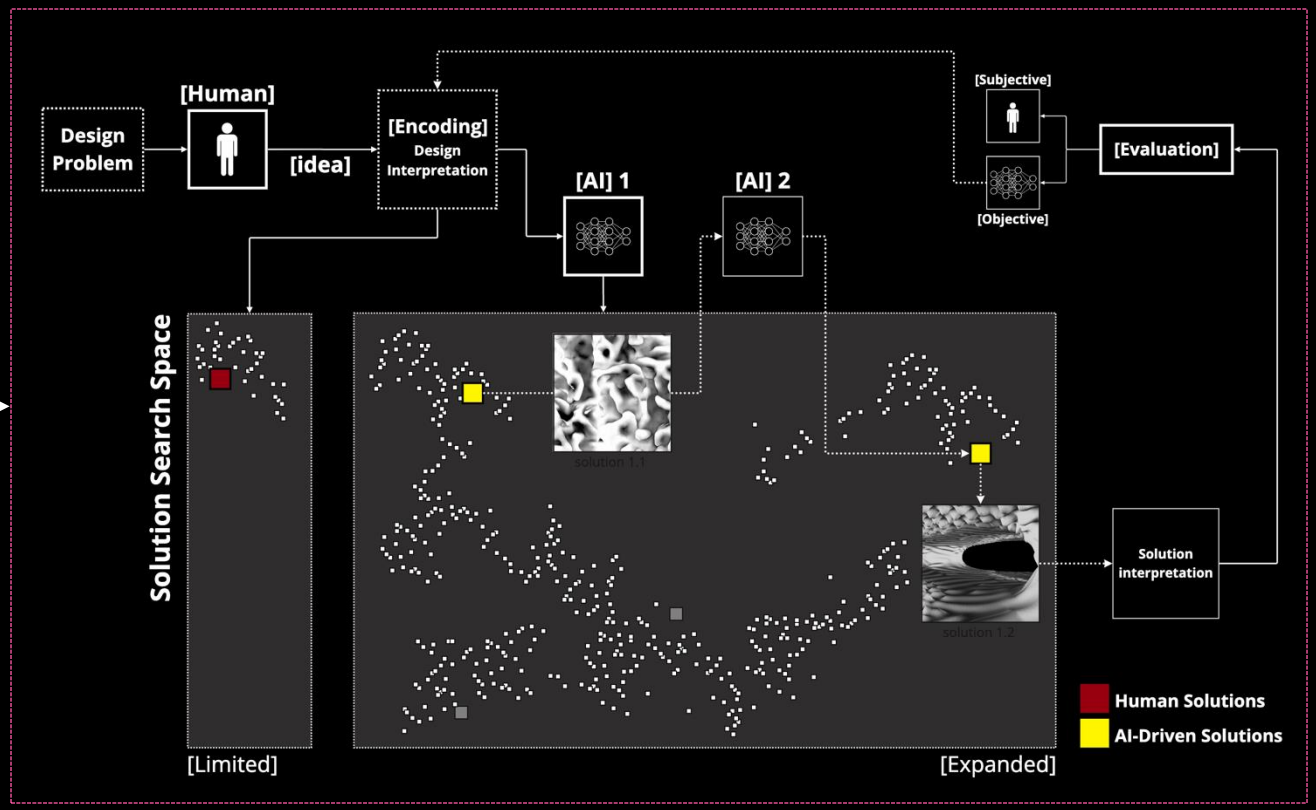
Midjourney ai. 2022.

On Artificial Intelligence (AI) and Creativity: How can AI augment creativity in the design process?
>>How to develop a design workflow with multiple interconnected AI models?

Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

AI + CREATIVITY | INTERCONNECTING AI MODELS IN DESIGN SYSTEMS





AI + CREATIVITY | INTERCONNECTING AI MODELS IN DESIGN SYSTEMS

Research Project: **CREATIVE AI**
Spring 2020 – Present
Collaborators:
Daniel Bolojan and Emmanouil Vermisso

Awards

STUDENTS' DESIGN-RESEARCH AWARDS
Editor's Choice award – Design Competition Award for supervising thesis project of: Cesarina Candelier and Tiffany Taylor, 2021
New Den-cities, post pandemic township design competition by UNI XYZ

Workshops

Co-leader. The ACADIA 2021 Workshop: " Latent Morphologies: Disentangling Design Spaces."
ACADIA Conference 2021.
ACADIA, REALIGNMENTS – TOWARDS CRITICAL COMPUTATION, 2021 (Online Conference)
Period: 09.11-09.12.21

Co-leader. The International Workshop: "Creative AI Ecologies.", June 2021
Inclusive Futures International Conference 2021.
DigitalFUTURES InclusiveFUTURES, Tongji University, Shanghai, China
Period: 06.26.21-07.02.21

Co-leader. The International Workshop: "Creative AI Ecologies-Augmenting Architectural Agency.", June 2020
DigitalFUTURES WORLD: ARCHITECTS UNITE, Tongji University, Shanghai, China
Workshop Title: Creative AI Ecologies-Augmenting Architectural Agency
Period: 06.26.20-07.02.20

Peer-Reviewed Articles

Bolojan, Daniel, Shermeen Yousif, and Emmanouil Vermisso. 2023. "Latent Design Spaces: Interconnected Deep Learning Models for Expanding the Architectural Search Space." In Architecture and Design for Industry 4.0: Theory and Practice, edited by Maurizio Barberio, Micaela Colella, Angelo Figliola and Alessandra Battisti. Springer. (Book chapter accepted).

Yousif, Shermeen, and Emmanouil Vermisso. 2022. "Towards AI-Assisted Design Workflows for an Expanded Design Space." POST-CARBON - Proceedings of the 27th CAADRIA Conference, Sydney, 9-15 April 2022.
http://papers.cumincad.org/cgi-bin/works/paper/caadria2022_503

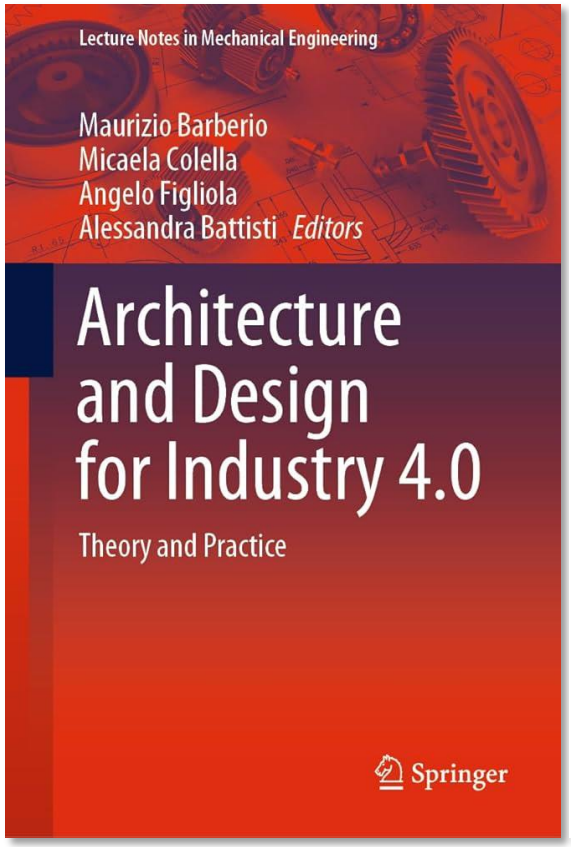
Bolojan, Daniel, Emmanouil Vermisso, and Shermeen Yousif. 2022. "Is Language All We Need? A Query Into Architectural Semantics Using a Multimodal Generative Workflow." POST-CARBON - Proceedings of the 27th CAADRIA Conference, Sydney, 9-15 April 2022.
http://papers.cumincad.org/cgi-bin/works/paper/caadria2022_507.

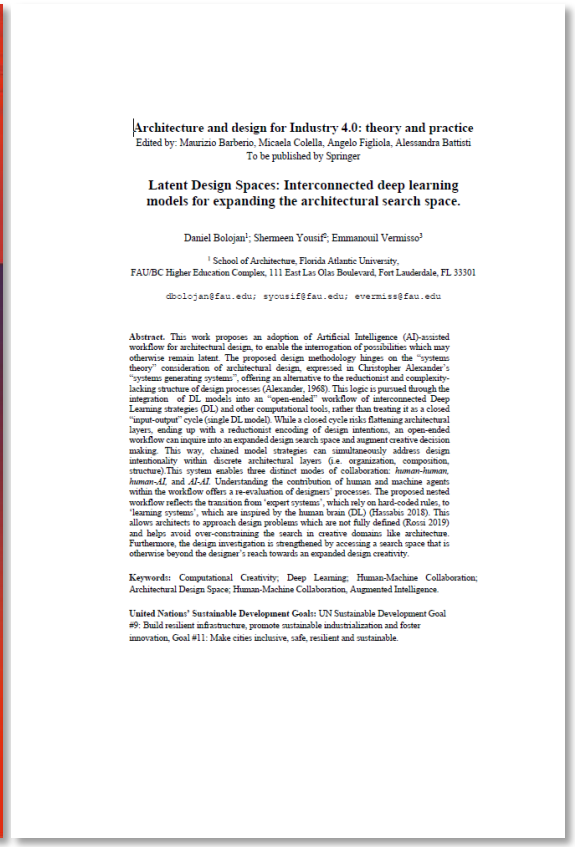
Yousif, Shermeen. 2022. "Using Language-Based and Generative Deep Learning Models for Encoding Design Intentions and Modifying Architectural Design." Proceedings of the ACSA 110th Annual Meeting EMPOWER, Los Angeles, CA.
https://www.acsa-arch.org/conference/110th-annual-meeting/friday-schedule/#toggle-id-20.

Yousif, Shermeen, and Daniel Bolojan. 2022. " Interconnectivity of Deep Learning Models in AI-Driven Design Systems." Design Computation Input / Output 2022, London, UK. https://www.designcomputation.org/programme.

Yousif, Shermeen, Yagmur Akuyz, and Luisa Giffoni. 2023. "Encoding Intentions into an Interconnected AI-Driven Design Framework." Human-Centric, the 28th International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Navrangpura, Ahmedabad. (Paper accepted).

Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com





Architecture and design for Industry 4.0: theory and practice
Edited by: Maurizio Barberio, Micaela Colella, Angelo Figliola, Alessandra Battisti
To be published by Springer

Latent Design Spaces: Interconnected deep learning models for expanding the architectural search space.

Daniel Bolojan[1]; Shermeen Yousif[2]; Emmanouil Vermisso[3]

[1] School of Architecture, Florida Atlantic University,
FAU/BC Higher Education Complex, 111 East Las Olas Boulevard, Fort Lauderdale, FL 33301

dbolojan@fau.edu; syousif@fau.edu; evermiss@fau.edu

Abstract. This work proposes an adoption of Artificial Intelligence (AI)-assisted workflow for architectural design, to enable the interrogation of possibilities which may otherwise remain latent. The proposed design methodology hinges on the "systems theory" consideration of architectural design, expressed in Christopher Alexander's "systems generating systems", offering an alternative to the reductionist and complexity-lacking structure of design processes (Alexander, 1968). This logic is pursued through the integration of DL models into an "open-ended" workflow of interconnected Deep Learning strategies (DL) and other computational tools, rather than treating it as a closed "input-output" cycle (single DL model). While a closed cycle risks flattening architectural layers, ending up with a reductionist encoding of design intentions, an open-ended workflow can inquire into an expanded design search space and augment creative decision making. This way, chained model strategies can simultaneously address design intentionality within discrete architectural layers (i.e. organization, composition, structure).This system enables three distinct modes of collaboration: *human-human*, *human-AI*, and *AI-AI*. Understanding the contribution of human and machine agents within the workflow offers a re-evaluation of designers' processes. The proposed nested workflow reflects the transition from 'expert systems', which rely on hard-coded rules, to 'learning systems', which are inspired by the human brain (DL) (Hassabis 2018). This allows architects to approach design problems which are not fully defined (Rocca 2019) and helps avoid over-constraining the search in creative domains like architecture. Furthermore, the design investigation is strengthened by accessing a search space that is otherwise beyond the designer's reach towards an expanded design creativity.

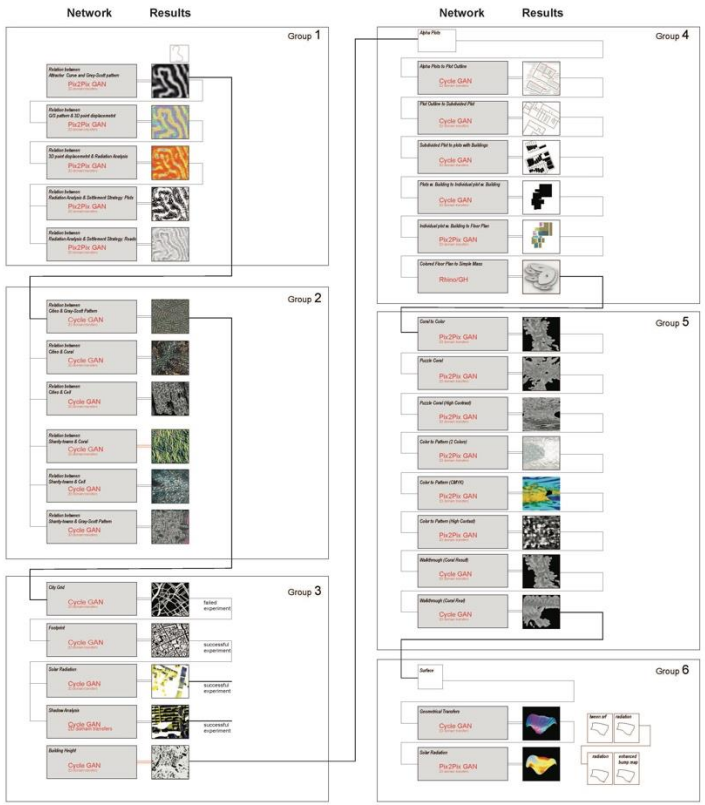
Keywords: Computational Creativity; Deep Learning; Human-Machine Collaboration; Architectural Design Space; Human-Machine Collaboration, Augmented Intelligence.

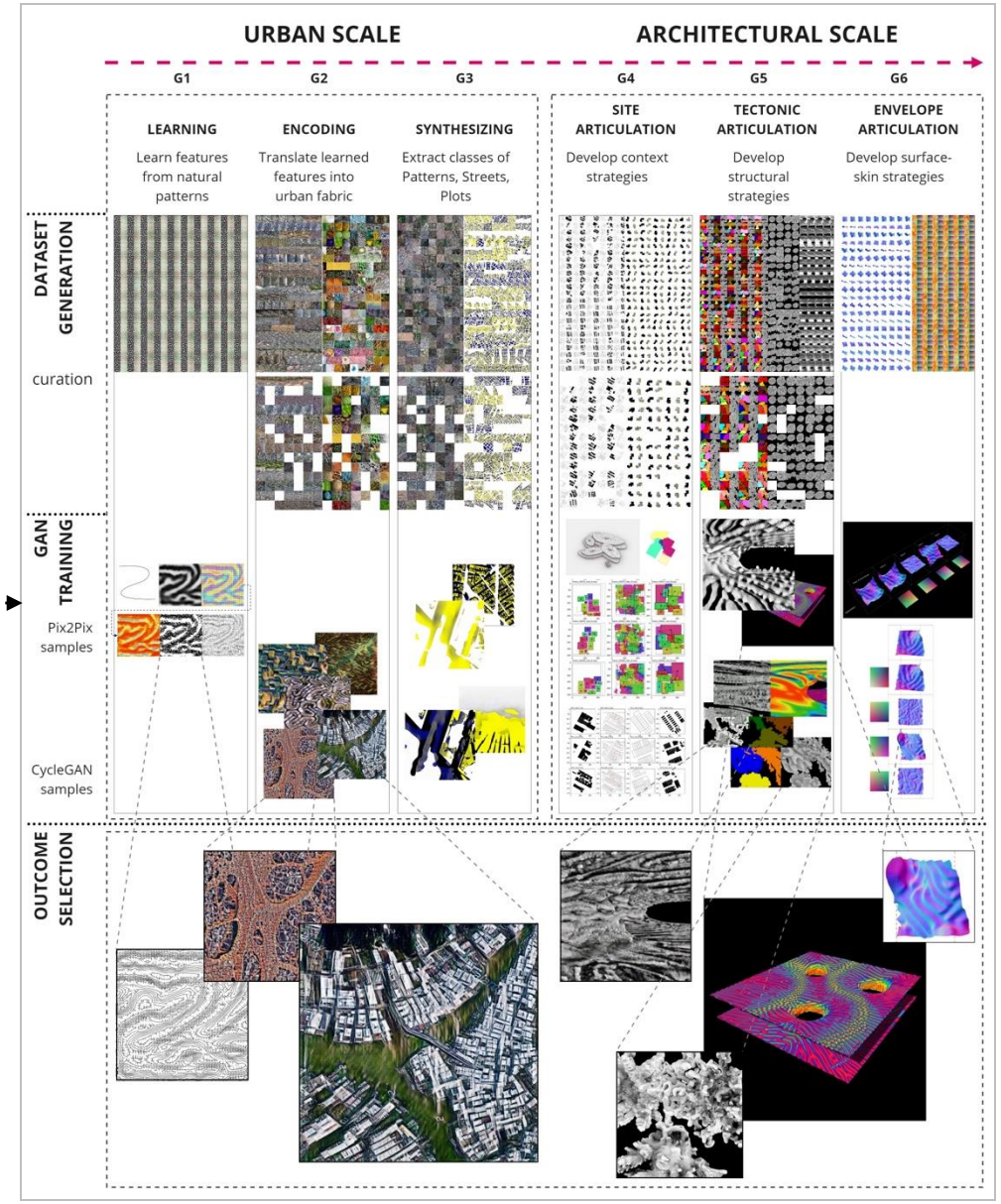
United Nations' Sustainable Development Goals: UN Sustainable Development Goal #9: Build resilient infrastructure, promote sustainable industrialization and foster innovation, Goal #11: Make cities inclusive, safe, resilient and sustainable.

Bolojan, Daniel, Shermeen Yousif, and Emmanouil Vermisso. 2023. "Latent Design Spaces: Interconnected Deep Learning Models for Expanding the Architectural Search Space." In Architecture and Design for Industry 4.0: Theory and Practice, edited by Maurizio Barberio, Micaela Colella, Angelo Figliola and Alessandra Battisti. Springer.

AI + CREATIVITY | INTERCONNECTING AI MODELS IN DESIGN SYSTEMS

Co-leader. The ACADIA 2021 Workshop: " Latent Morphologies: Disentangling Design Spaces." ACADIA Conference 2021.





3D-Interpolation

CycleGAN 1

3D [FAME] field maps of the urban fabrics for 3D interpolation in Rhinoceros +Grasshopper

Grasshopper + Blender

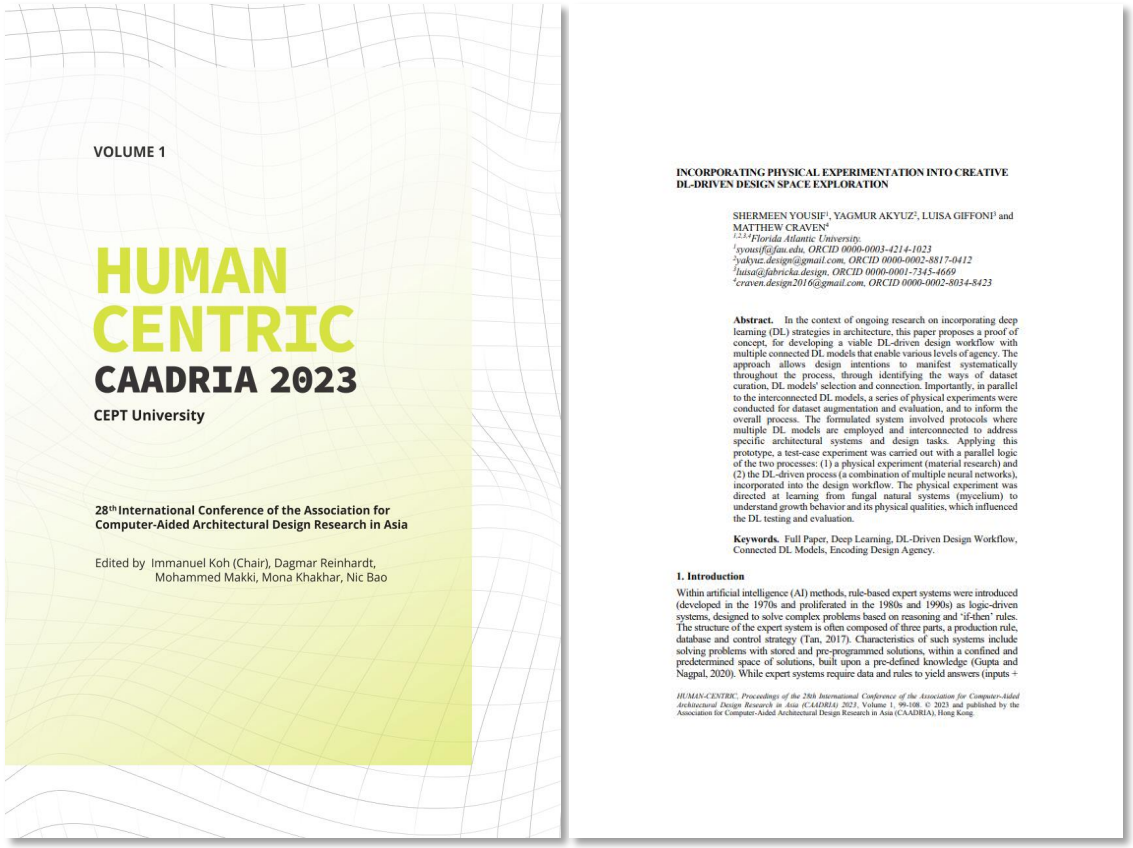
3D interpolation of the field maps for 8100 samples placed in stacked manner

Presentation for the CRTLE AI Course Redesign Institute at UTA | 10.31.2025

How to test and evaluate AI-driven systems in teaching?
Implementing Interconnectivity of AI Models in Prototyping New Design Workflow Strategies

Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

IS LANGUAGE ALL WE NEED? A QUERY INTO ARCHITECTURAL SEMANTICS USING A MULTIMODAL GENERATIVE WORKFLOW



INCORPORATING PHYSICAL EXPERIMENTATION INTO CREATIVE DL-DRIVEN DESIGN SPACE EXPLORATION

SHERMEEN YOUSIF[1], YAGMUR AKYUZ[2], LUISA GIFFONI[3] and MATTHEW CRAVEN[4]
[1,2,3,4]Florida Atlantic University.
[1]syousif@fau.edu, ORCID 0000-0003-4214-1023
[2]yakyuz.design@gmail.com, ORCID 0000-0002-8817-0412
[3]luisa@fabricka.design, ORCID 0000-0001-7345-4669
[4]craven.design2016@gmail.com, ORCID 0000-0002-8034-8423

Abstract. In the context of ongoing research on incorporating deep learning (DL) strategies in architecture, this paper proposes a proof of concept, for developing a viable DL-driven design workflow with multiple connected DL models that enable various levels of agency. The approach allows design intentions to manifest systematically throughout the process, through identifying the ways of dataset curation, DL models' selection and connection. Importantly, in parallel to the interconnected DL models, a series of physical experiments were conducted for dataset augmentation and evaluation, and to inform the overall process. The formulated system involved protocols where multiple DL models are employed and interconnected to address specific architectural systems and design tasks. Applying this prototype, a test-case experiment was carried out with a parallel logic of the two processes: (1) a physical experiment (material research) and (2) the DL-driven process (a combination of multiple neural networks), incorporated into the design workflow. The physical experiment was directed at learning from fungal natural systems (mycelium) to understand growth behavior and its physical qualities, which influenced the DL testing and evaluation.

Keywords. Full Paper, Deep Learning, DL-Driven Design Workflow, Connected DL Models, Encoding Design Agency.

1. Introduction

Within artificial intelligence (AI) methods, rule-based expert systems were introduced (developed in the 1970s and proliferated in the 1980s and 1990s) as logic-driven systems, designed to solve complex problems based on reasoning and 'if-then' rules. The structure of the expert system is often composed of three parts, a production rule, database and control strategy (Tan, 2017). Characteristics of such systems include solving problems with stored and pre-programmed solutions, within a confined and predetermined space of solutions, built upon a pre-defined knowledge (Gupta and Nagpal, 2020). While expert systems require data and rules to yield answers (inputs +

HUMAN-CENTRIC. Proceedings of the 28th International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) 2023, Volume 1, 99–108. © 2023 and published by the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Hong Kong.

Yousif, Shermeen, Yagmur Akuyz, Luisa Giffoni, and Matthew Craven. 2023. "Incorporating Physical Experimentation into Creative DL-Driven Design Space Exploration." Human-Centric, Proceedings of the 28th International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA), Navrangpura, Ahmedabad, 18-24 March 2023, 99–108.
doi: https://doi.org/10.52842/conf.caadria.2023.1.099

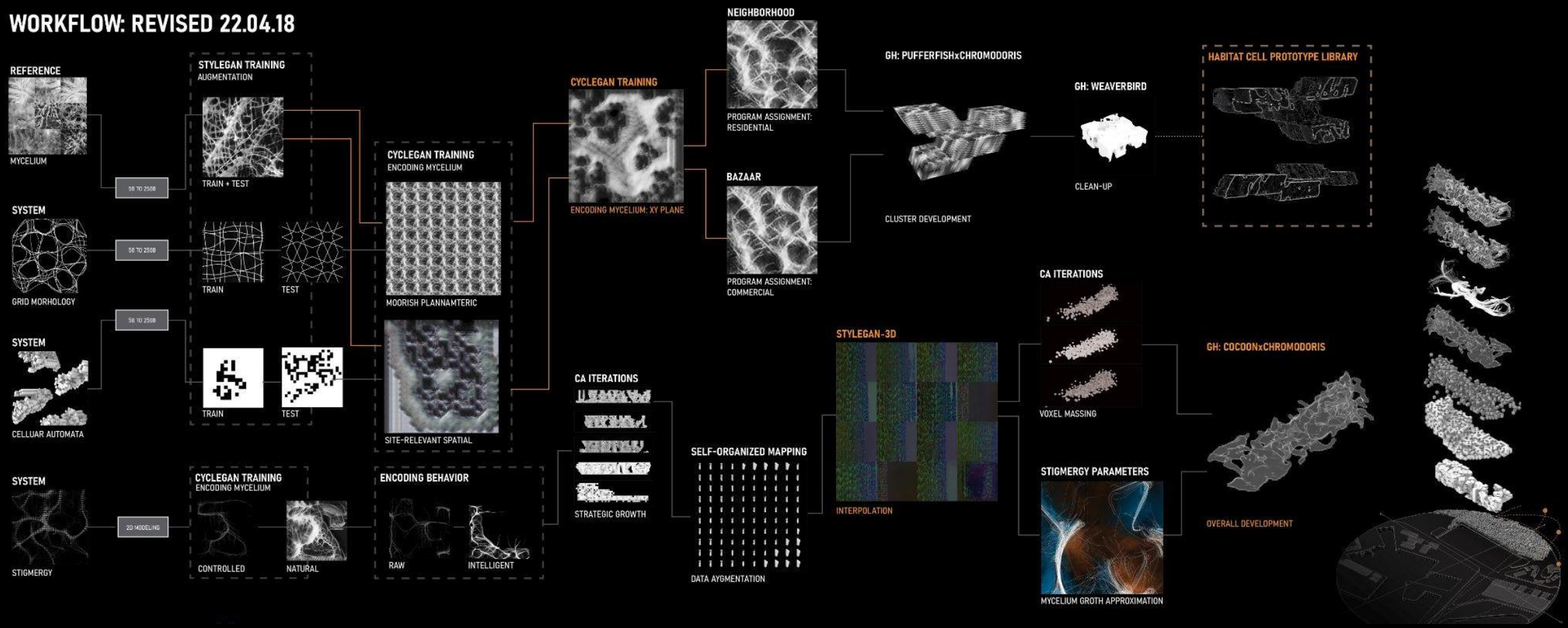
TEACHING: TEST-CASE APPLICATION 1

Incorporating Physical Experimentation into Creative AI-Driven Design Space Exploration

Parallel AI-Driven Workflow Strategy

Students:
Yagmur Akyuz
Luisa Giffoni
Matthew Craven
School of Architecture | Florida Atlantic University

INCORPORATING PHYSICAL EXPERIMENTATION INTO CREATIVE AI-DRIVEN DESIGN SPACE EXPLORATION

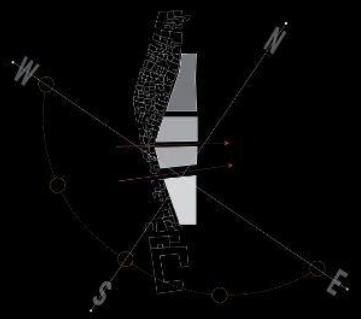


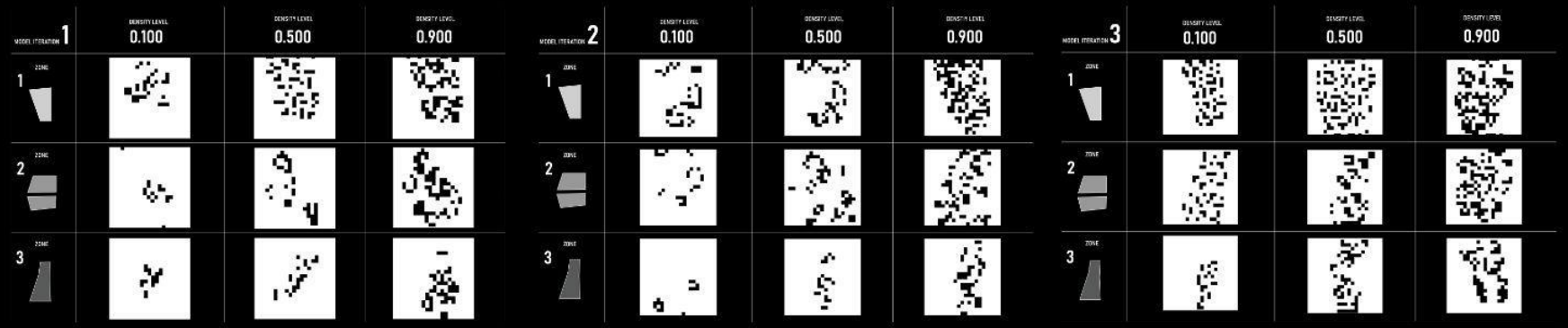
Presentation for the CRTLE AI Course Redesign Institute at UTA | 10.31.2025

Topical Design Studio Spring 2022, Students: Yagmur Akyuz | Luisa Giffoni | Matthew Craven

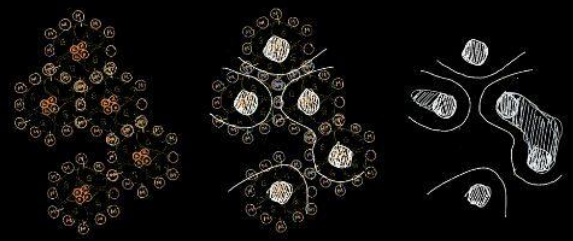
Presentation: Choreographing Intelligence: A Pedagogical Model on Successful AI-Driven Workflows
Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

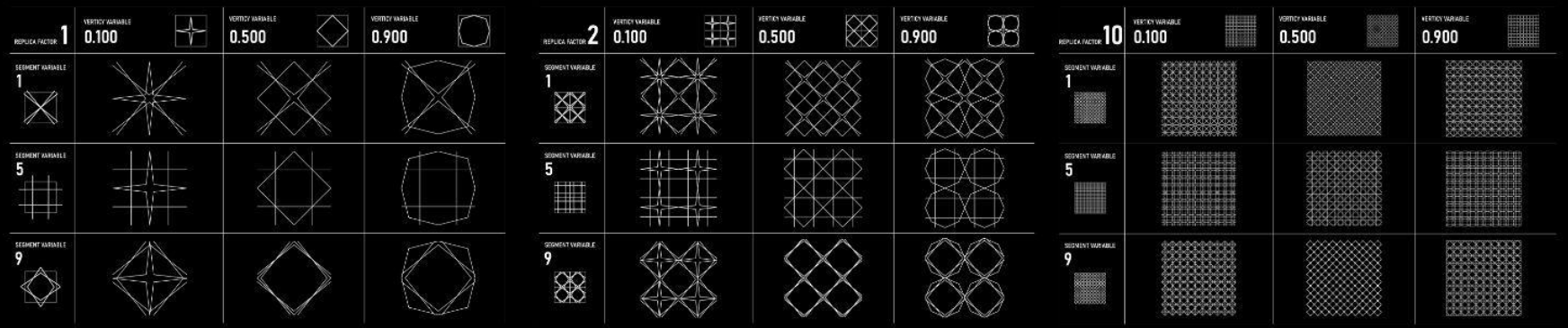
INCORPORATING PHYSICAL EXPERIMENTATION INTO CREATIVE AI-DRIVEN DESIGN SPACE EXPLORATION



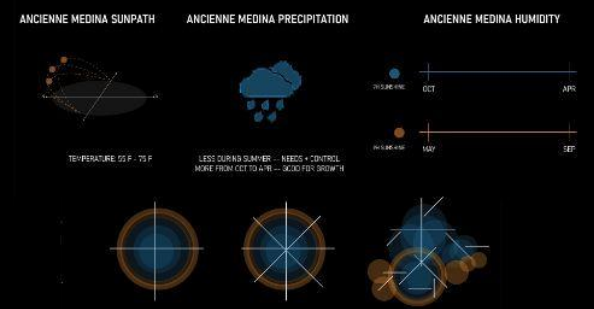


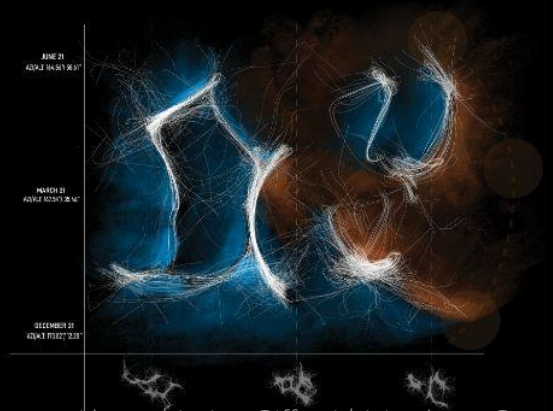
SOCIAL ORGANIZATION: MOORISH PATTERNS

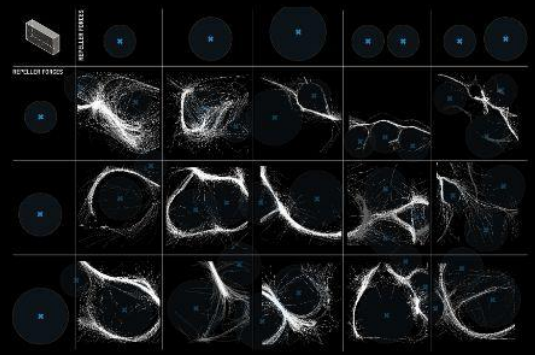


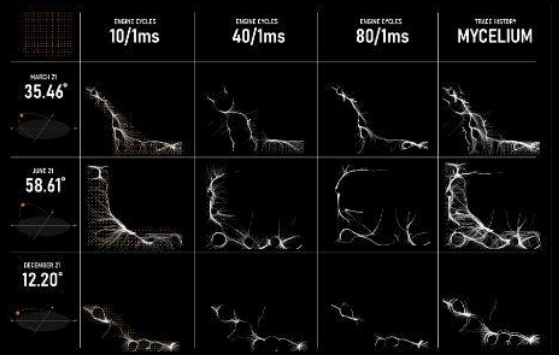


MATERIAL STRUCTURE: STIGMERGY







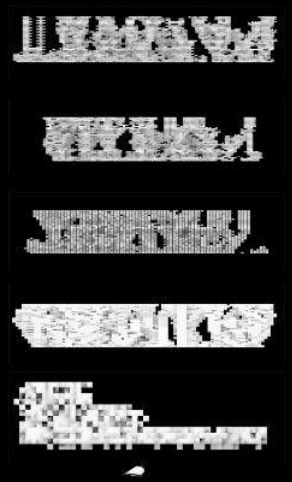


TOPICAL DESIGN STUDIO | DR. SHERMEEN YOUSIF

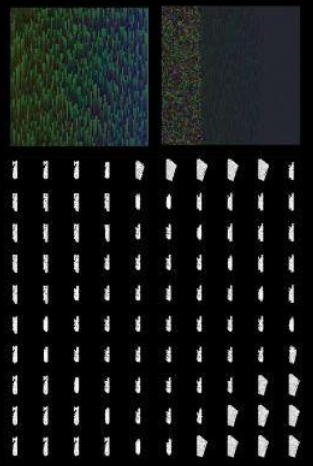
AKYUZ | CRAVEN | GIFFONI

INCORPORATING PHYSICAL EXPERIMENTATION INTO CREATIVE AI-DRIVEN DESIGN SPACE EXPLORATION

CELLULAR AUTOMATA GENERATION RULES



4 GENERAL CONDITIONS + SITE MASSING



INTERPOLATIONS

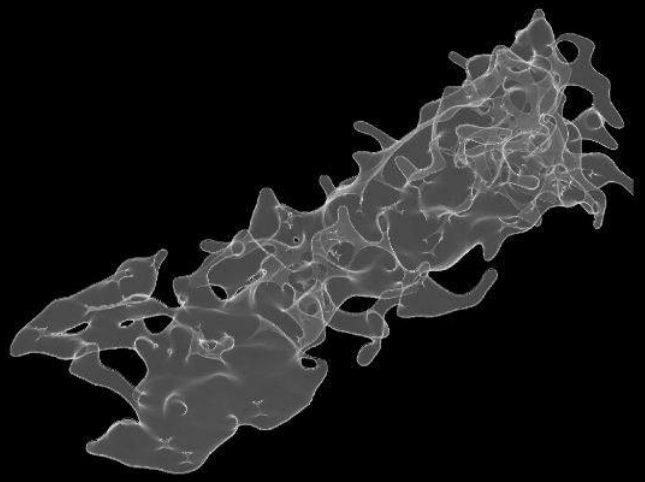
SOM (SELF ORGANIZING MAPS)

USED IN THIS WORKFLOW TO AUGMENT THE PRELIMINARY MASSING DATA FOR STYLEGAN-3D TRAINING.

STYLEGAN-3D

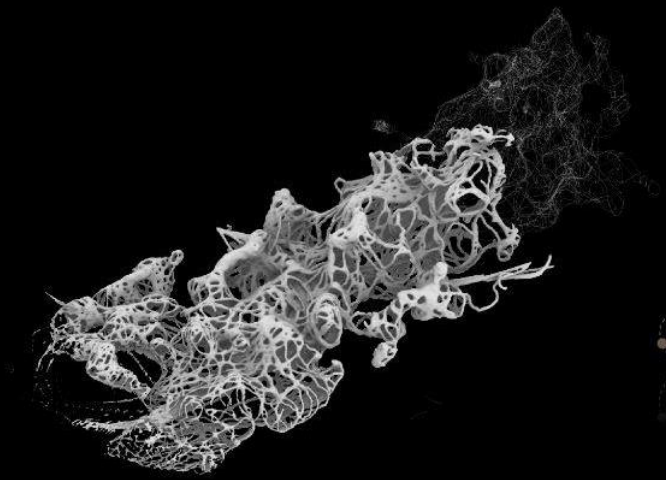
A GENERATIVE ADVERSARIAL NETWORK WHICH CONVERTS MESH VERTICE LOCATIONS TO 2-DIMENSIONAL REFERENCE IMAGES. THESE IMAGES ARE TRAINED IN A REGULAR STYLEGAN, AND CONVERTED BACK TO LOCATION DATA. THE RESULT OF THIS TRAINING CREATES AN ITERATION LIBRARY FROM THE INTERPOLATION OF ENCODED MASSINGS.

ITERATION LIBRARY

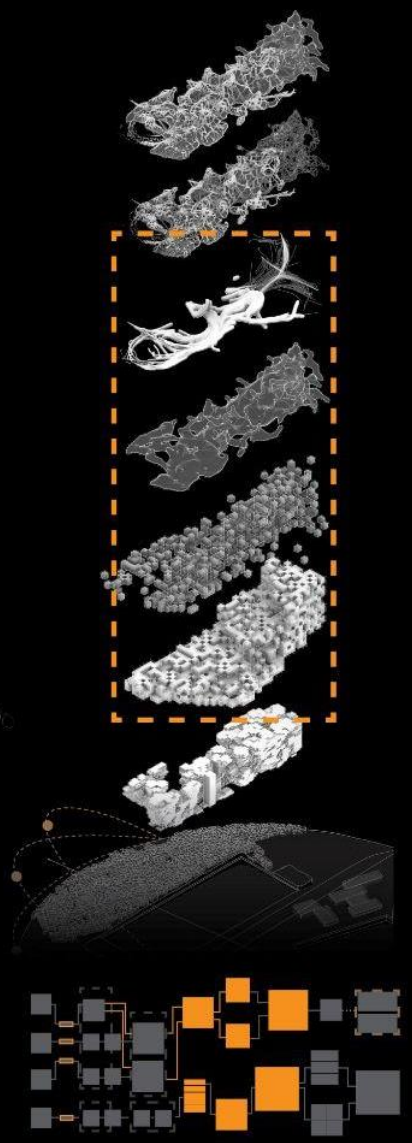


COCOON

STIGMERGY



MESH CRAWL



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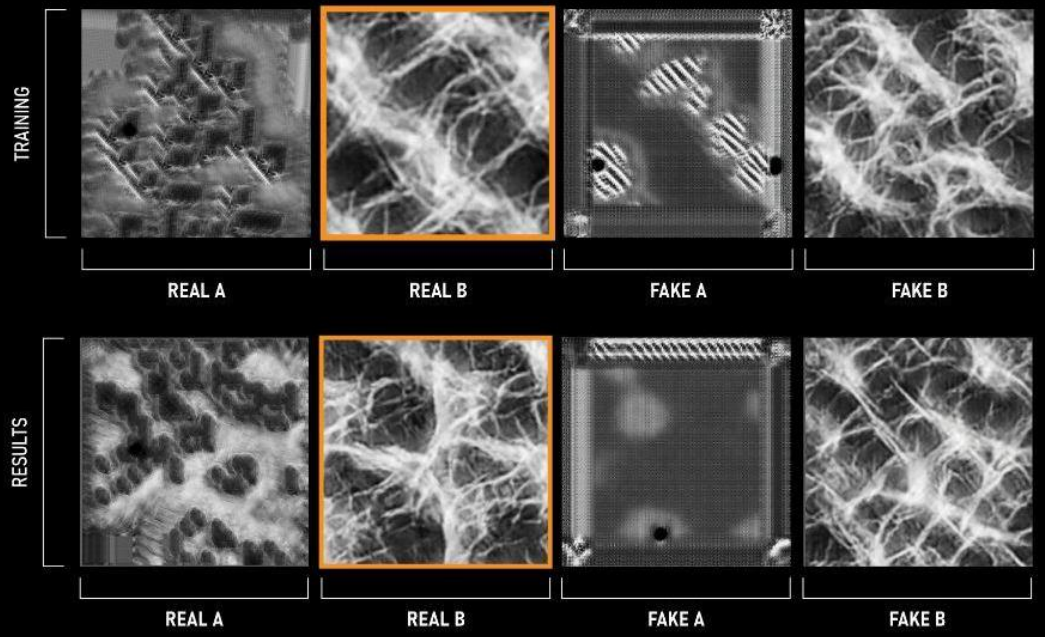
TOPICAL DESIGN STUDIO | DR. SHERMEEN YOUSIF

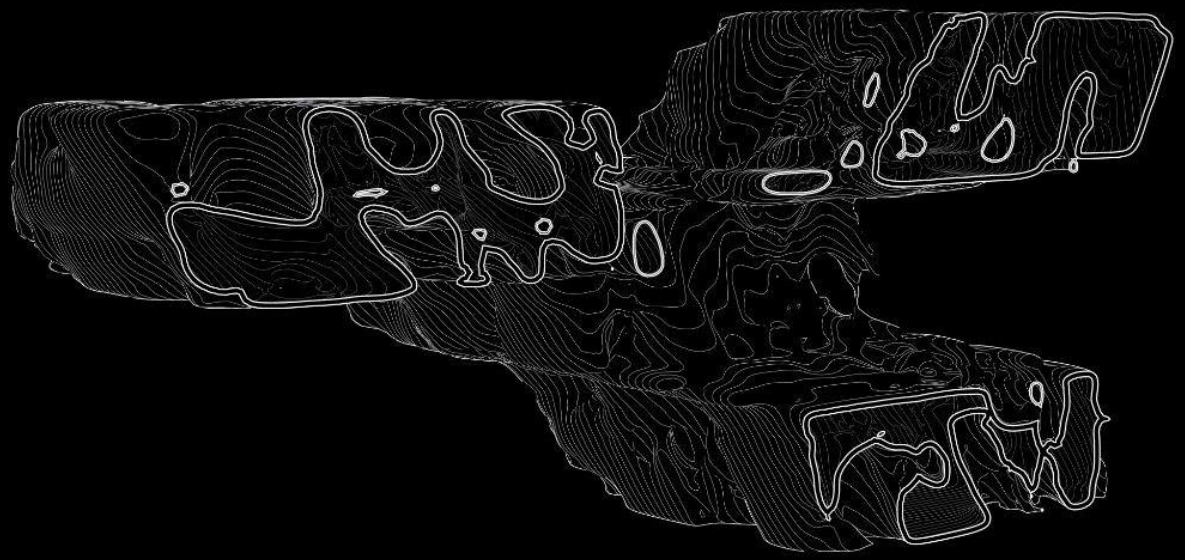
Topical Design Studio Spring 2022, Students: Yagmur Akyuz | Luisa Giffoni | Matthew Craven

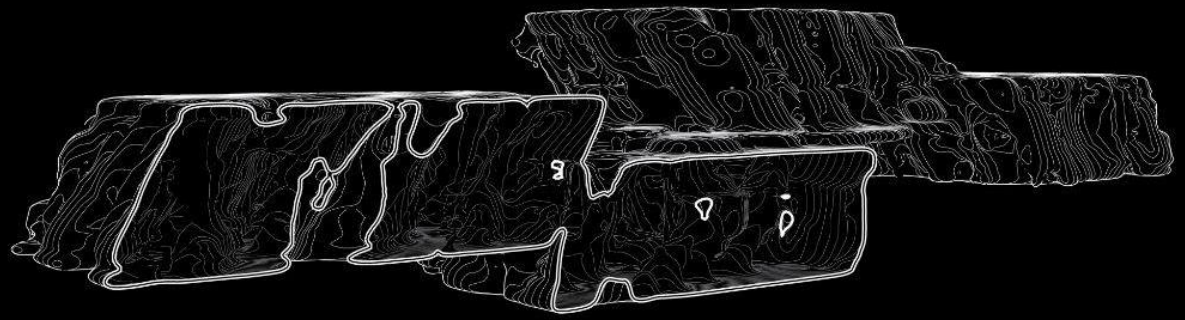
Presentation: **Choreographing Intelligence: A Pedagogical Model on Successful AI-Driven Workflows**

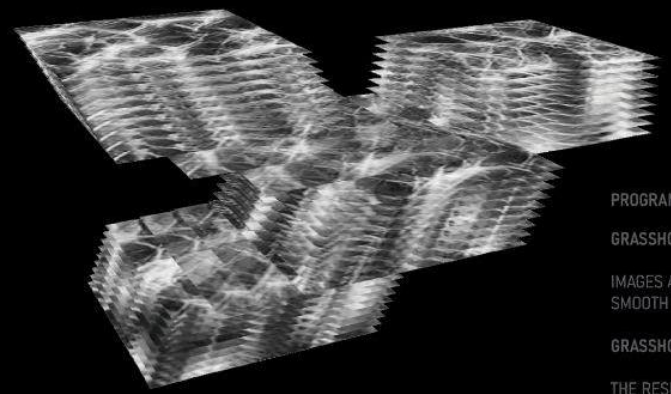
Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

INCORPORATING PHYSICAL EXPERIMENTATION INTO CREATIVE AI-DRIVEN DESIGN SPACE EXPLORATION









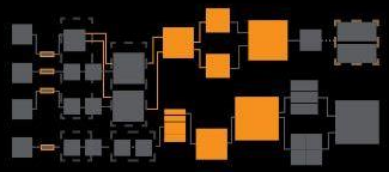
PROGRAMMATIC LIBRARY

GRASSHOPPER: PUFFERFISH

IMAGES ARE EVALUATED BY VERTICES, INFLUENCED BY COLOR VALUES. LATER, THEY ARE TWEENED TO CREATE A SMOOTH TRANSITION AMONG THE LAYERS.

GRASSHOPPER: CHROMODORIS

THE RESULTING POINT CLOUD IS USE TO INFORM AN ISOSURFACE WITH RANGES AND CHARGES DETERMINED BY THE DESIGNER.



AKYUZ | CRAVEN | GIFFONI

INCORPORATING PHYSICAL EXPERIMENTATION INTO CREATIVE AI-DRIVEN DESIGN SPACE EXPLORATION

Topical Design Studio Spring 2022, Students: Yagmur Akyuz | Luisa Giffoni | Matthew Craven

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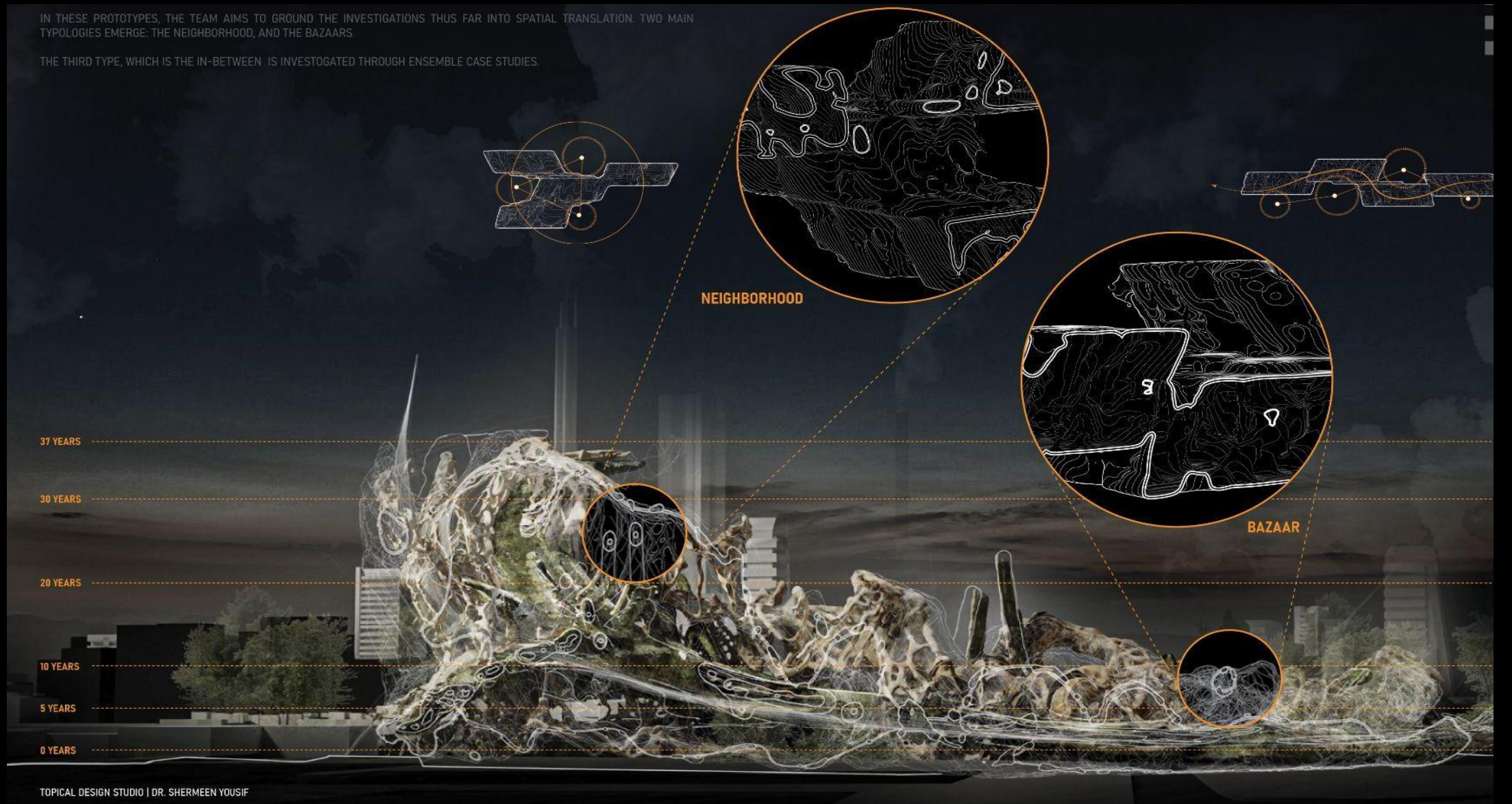

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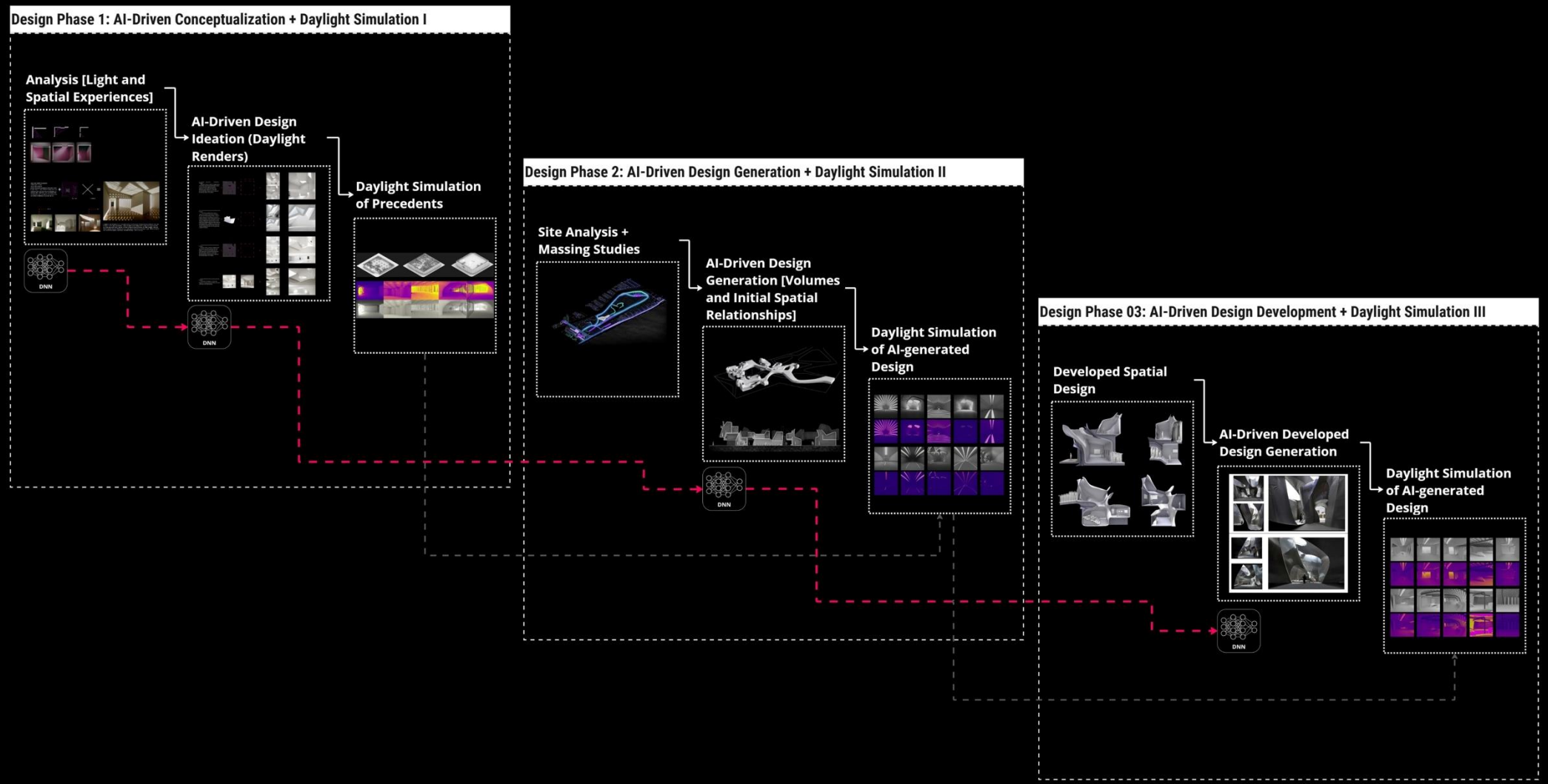
Topical Design Studio Spring 2022, Students: Yagmur Akyuz | Luisa Giffoni | Matthew Craven

TEACHING: TEST-CASE APPLICATION II

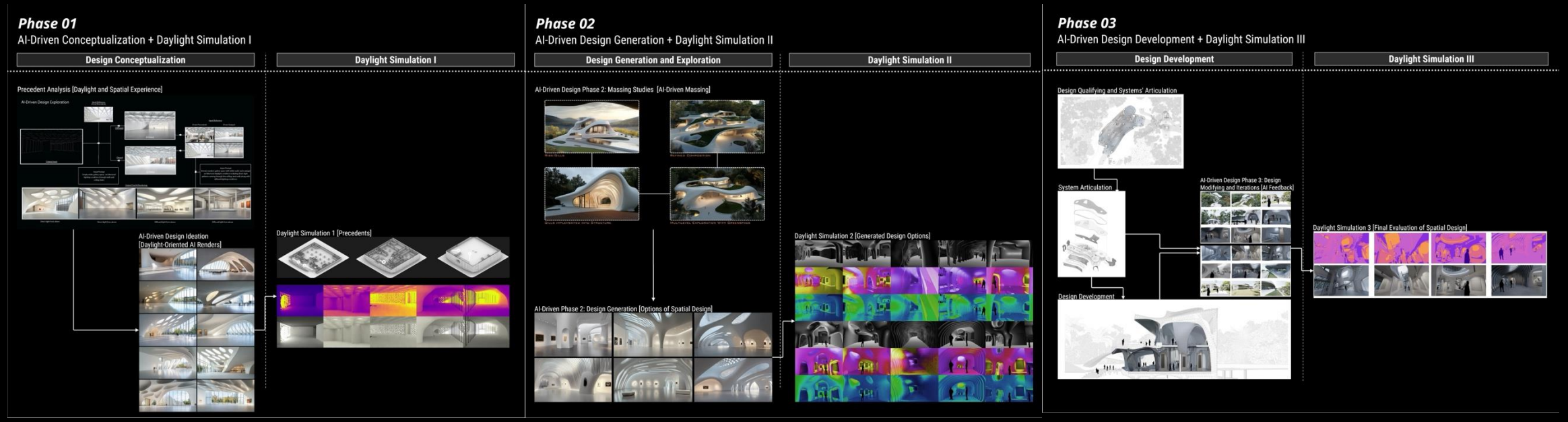
Design Studio 6
School of Architecture | Florida Atlantic University
Spring 2025

Students:
Eileen Abigado
Alice Kovalesvsky
Anthony Callahan
Jianna DiPisa
Giulia Griesi
Ayriel Italia
Laci Kinder
Angelina Mandolfo
Maula Mercy
Bnjamin Nguyen

APPLIYING A NEW METHOD WORKFLOW TO TEAHCING



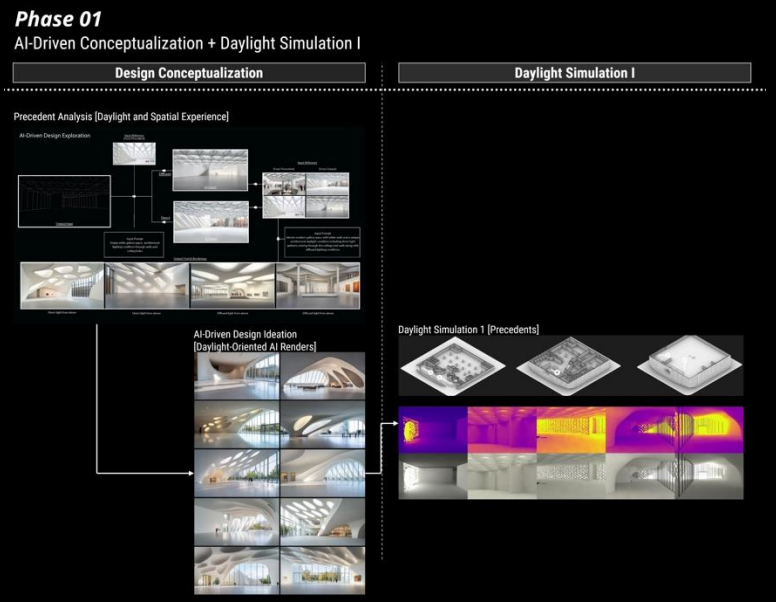
TEST-CASE APPLICATION II
Spring 2025 | FAU School of Architecture

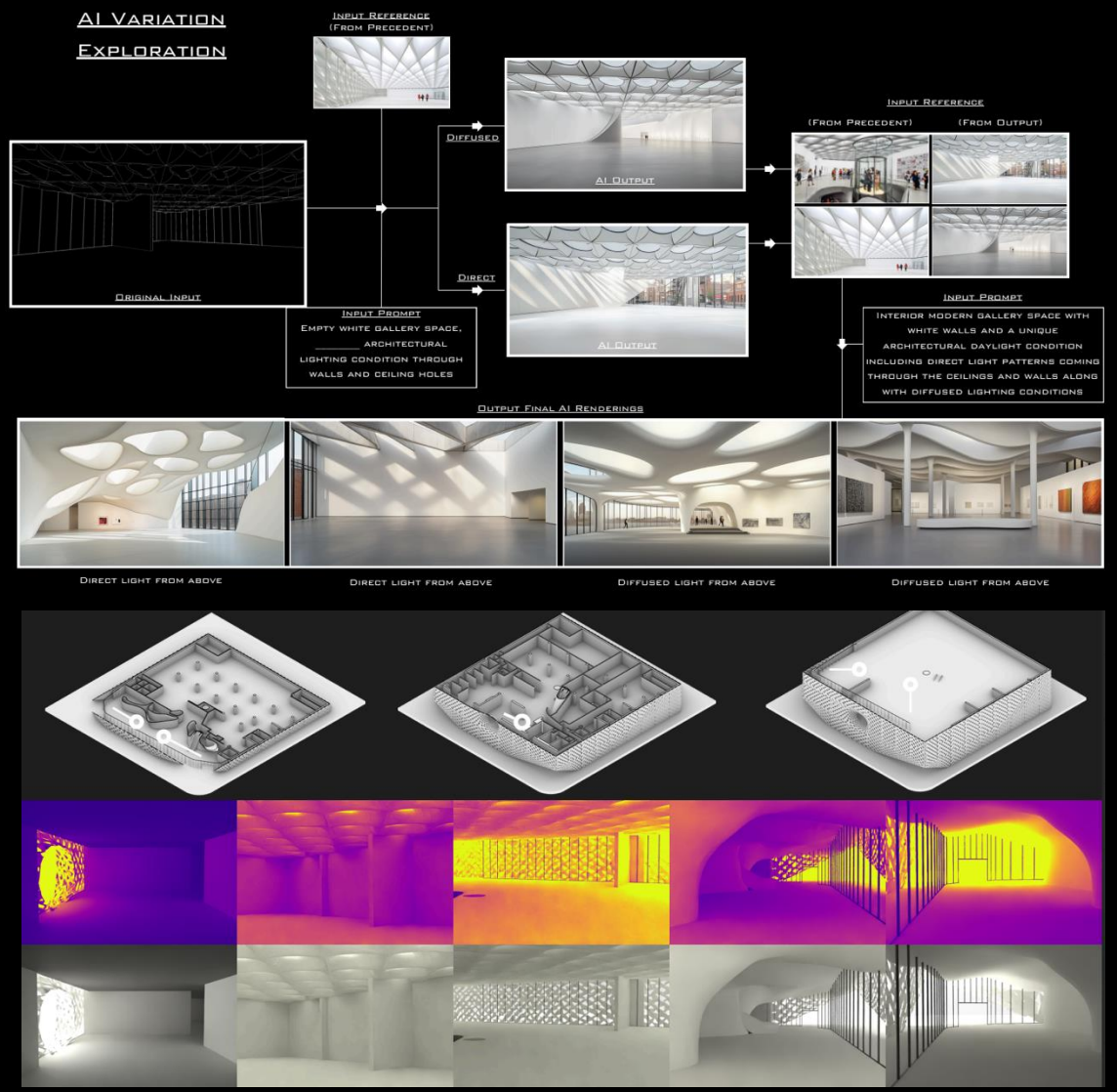


Presentation: Choreographing Intelligence: A Pedagogical Model on Successful AI-Driven Workflows
Shermeen Yousif, Ph.D. | shermeenyousif.com | deepecodesign-studio.com

TEST-CASE APPLICATION II
Spring 2025 | FAU School of Architecture

Phase 01 | AI-Driven Design Conceptualization+ Daylight Simulation I





Daylight Simulation Renders (Point-in-Time) | Metrics: Luminance in HDR and False-Color

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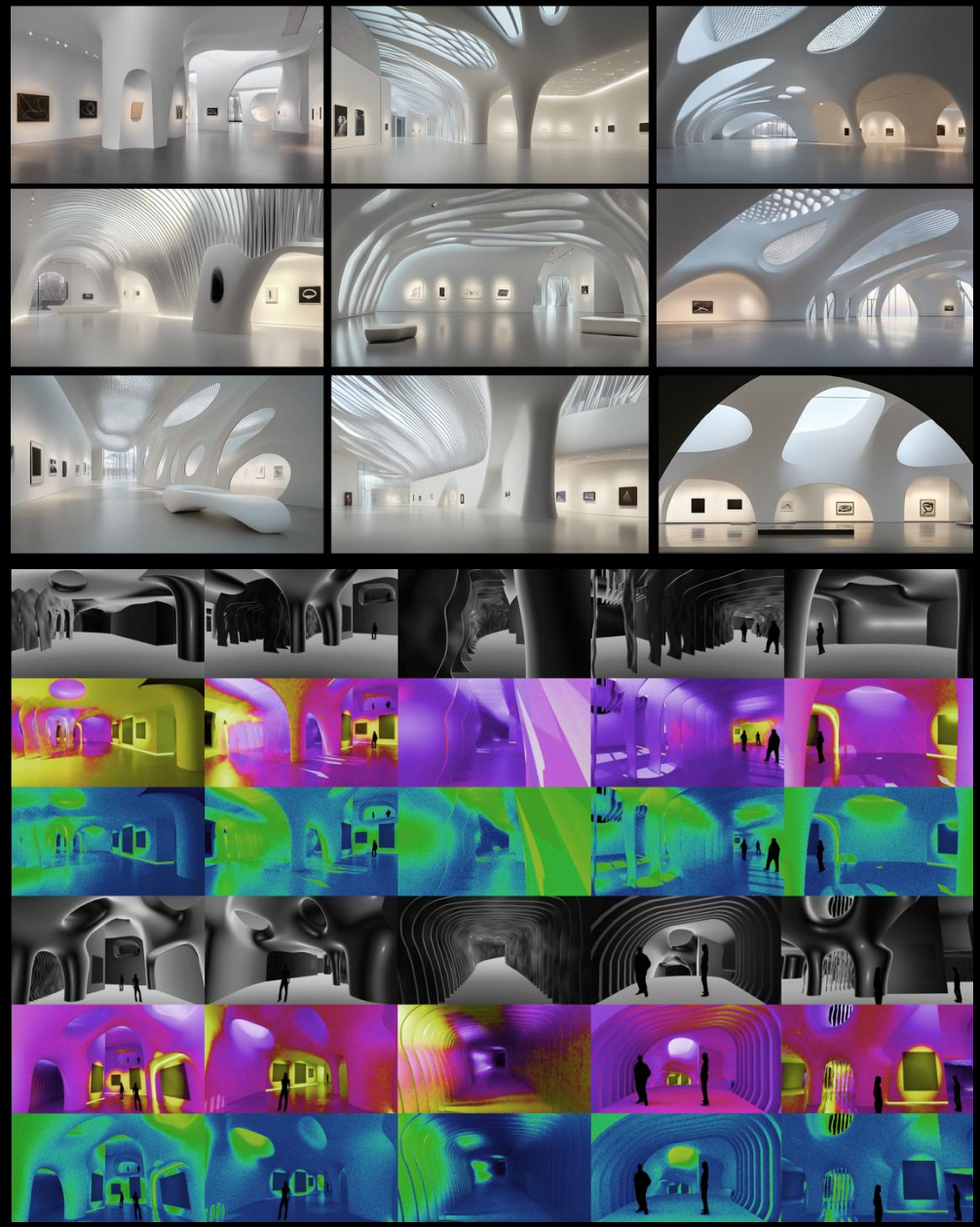
TEST-CASE APPLICATION II
Spring 2025 | FAU School of Architecture

Phase 02 | AI-Driven Design Generation and Exploration + Daylight Simulation II



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Design Studio 6, Spring 2025, Student: Brannan Ritch

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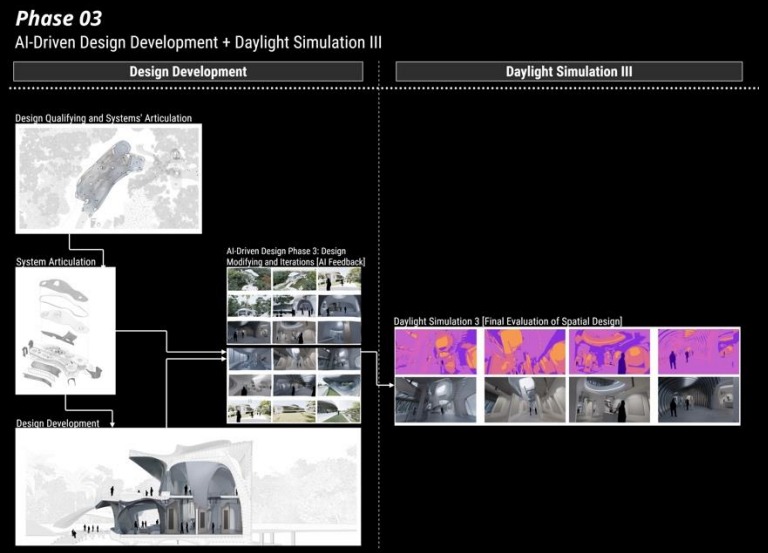
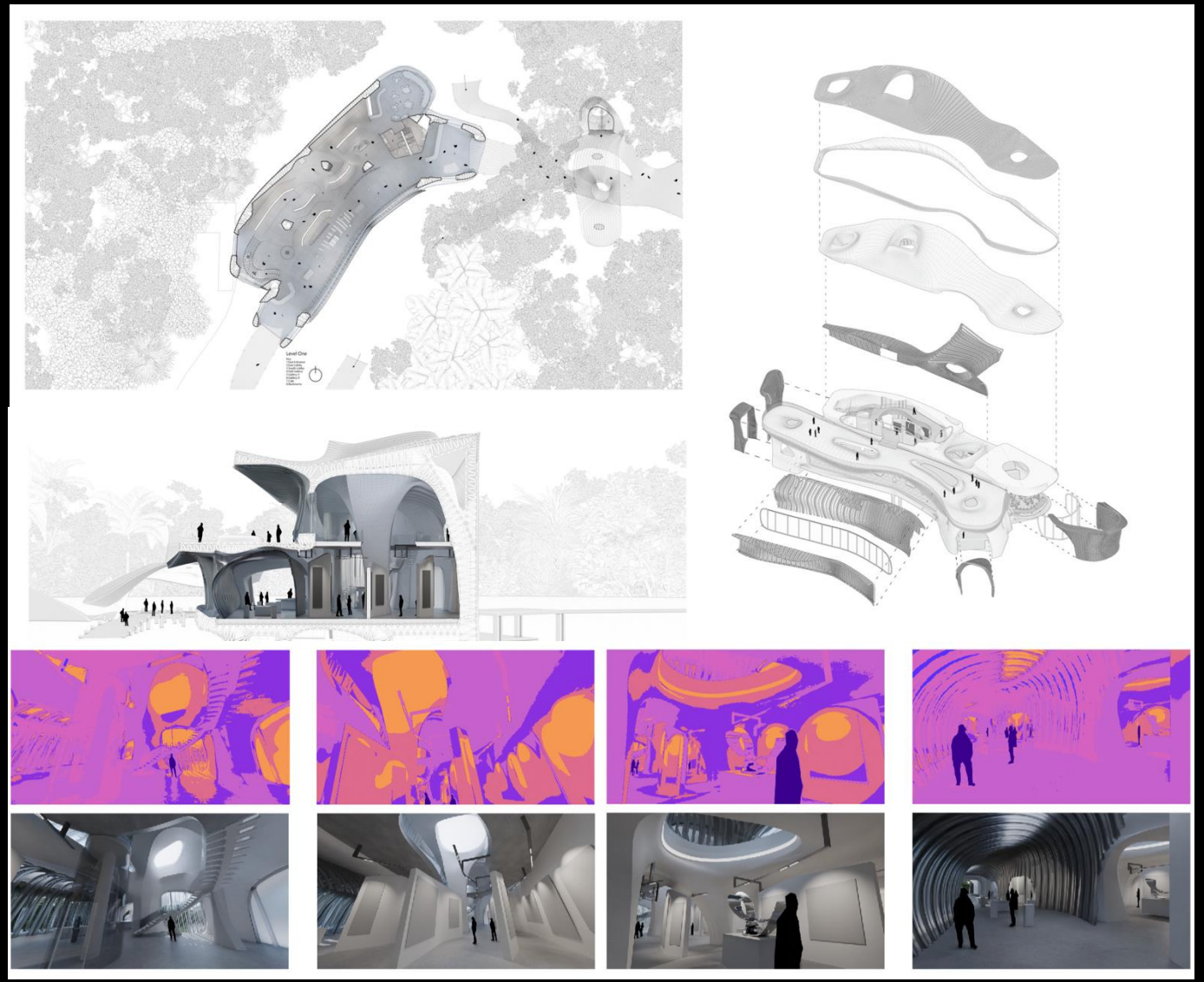
TEST-CASE APPLICATION II
Spring 2025 | FAU School of Architecture

Phase 02 | AI-Driven Design Generation and Exploration + Daylight Simulation II

TEST-CASE APPLICATION II
Spring 2025 | FAU School of Architecture

Phase 03 | AI-Driven Design Development + Daylight Simulation III





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Design Studio 6, Spring 2025, Student: Brannan Ritch

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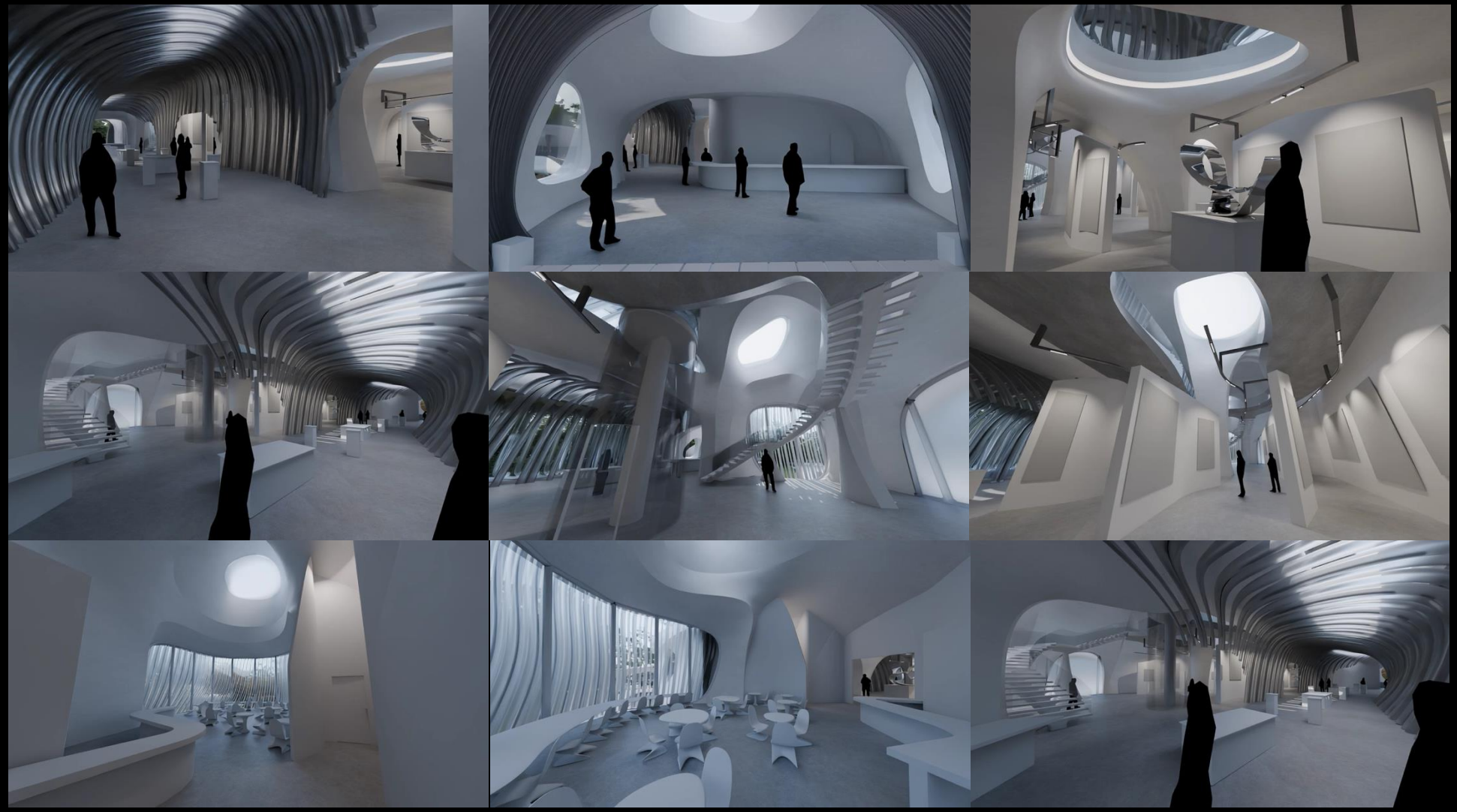
TEST-CASE APPLICATION II
Spring 2025 | FAU School of Architecture

Phase 03 | AI-Driven Design Development + Daylight Simulation III

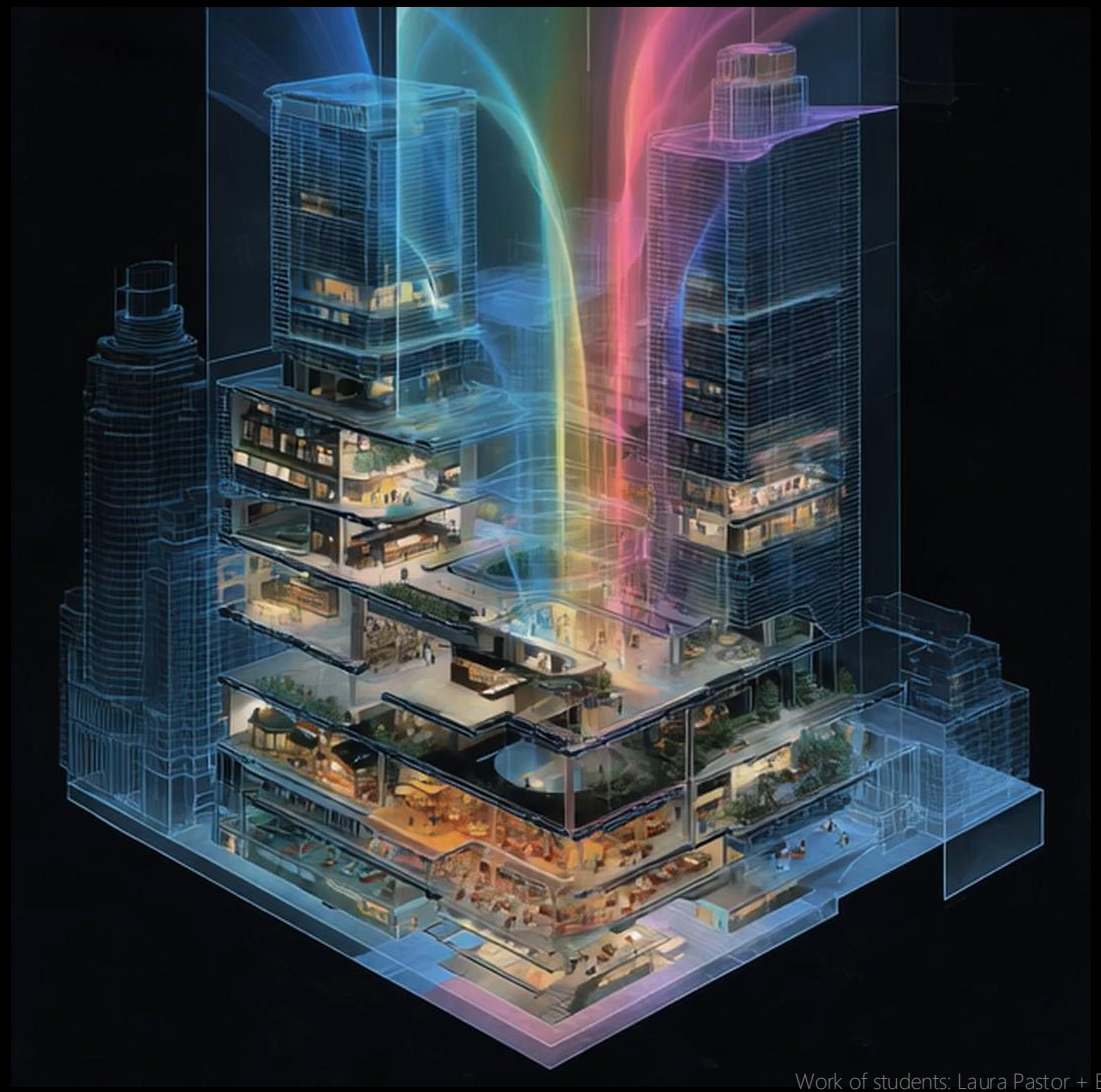


Design Studio 6, Spring 2025, Student: Brannan Ritch

TEACHING: TEST-CASE APPLICATION III

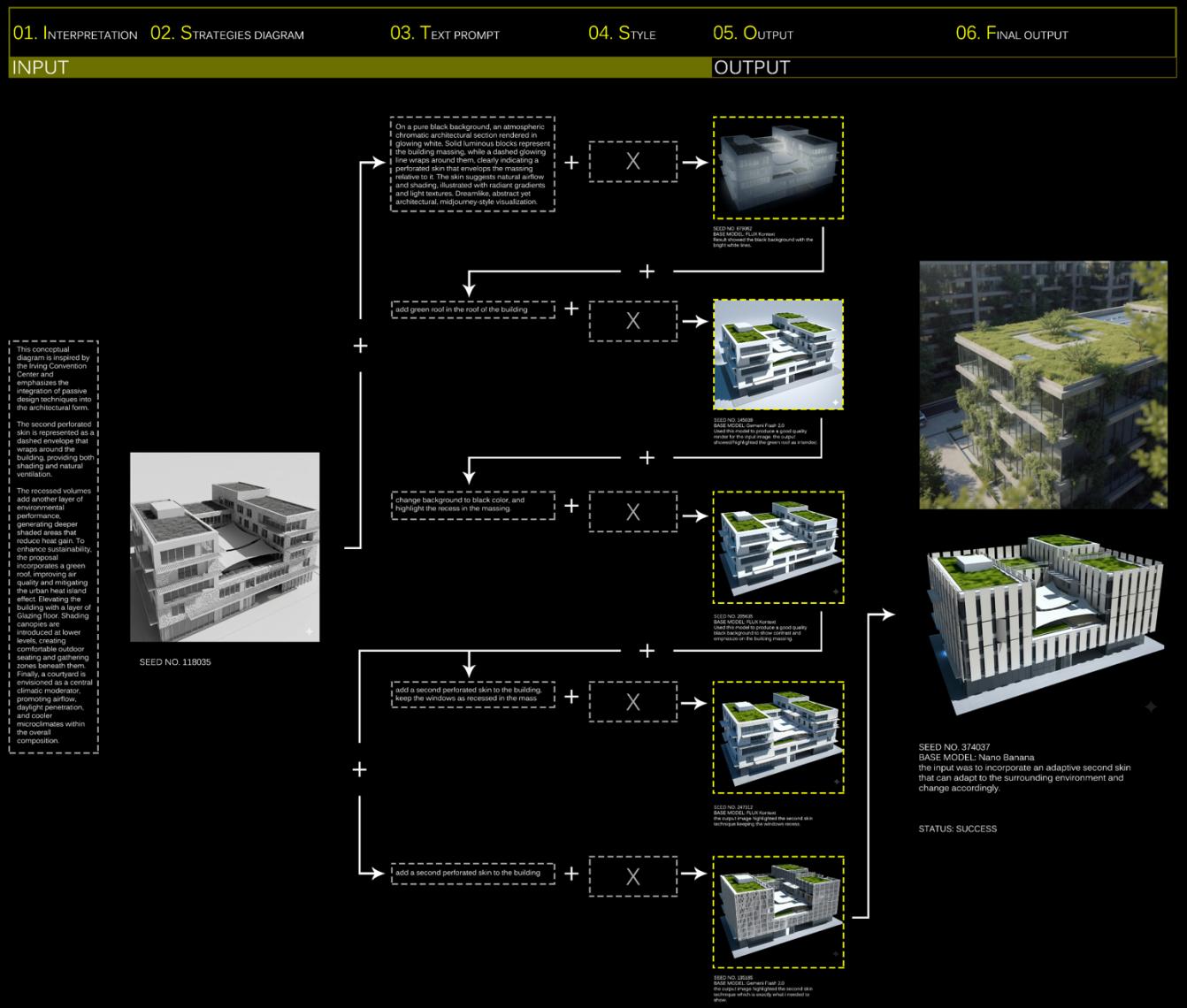
M.Arch. Design Studio
School of Architecture | University of Texas, Arlington
Fall 2025

Students:
Mustapha Hassan + Manal Hassan
Areej Damra + Mario Belt
Riya Modi + Mona Hassan
Laura Pastor + Emily Cossio
Monica Griego + Steven Flores
Chazney Markle + Morgan Cleveland
Swati Hannikeri+ Maryna Ayupova
Jamie Chavez + Tyler Doyle



Work of students: Laura Pastor + Emily Cossio

TEST-CASE APPLICATION III
Fall 2025 | UTA School of Architecture



Presentation for the CRTLE AI Course Redesign Institute at UTA | 10.31.2025

M.Arch. Design Studio, Fall 2025, Students: Mustapha Hassan + Manal Hassan

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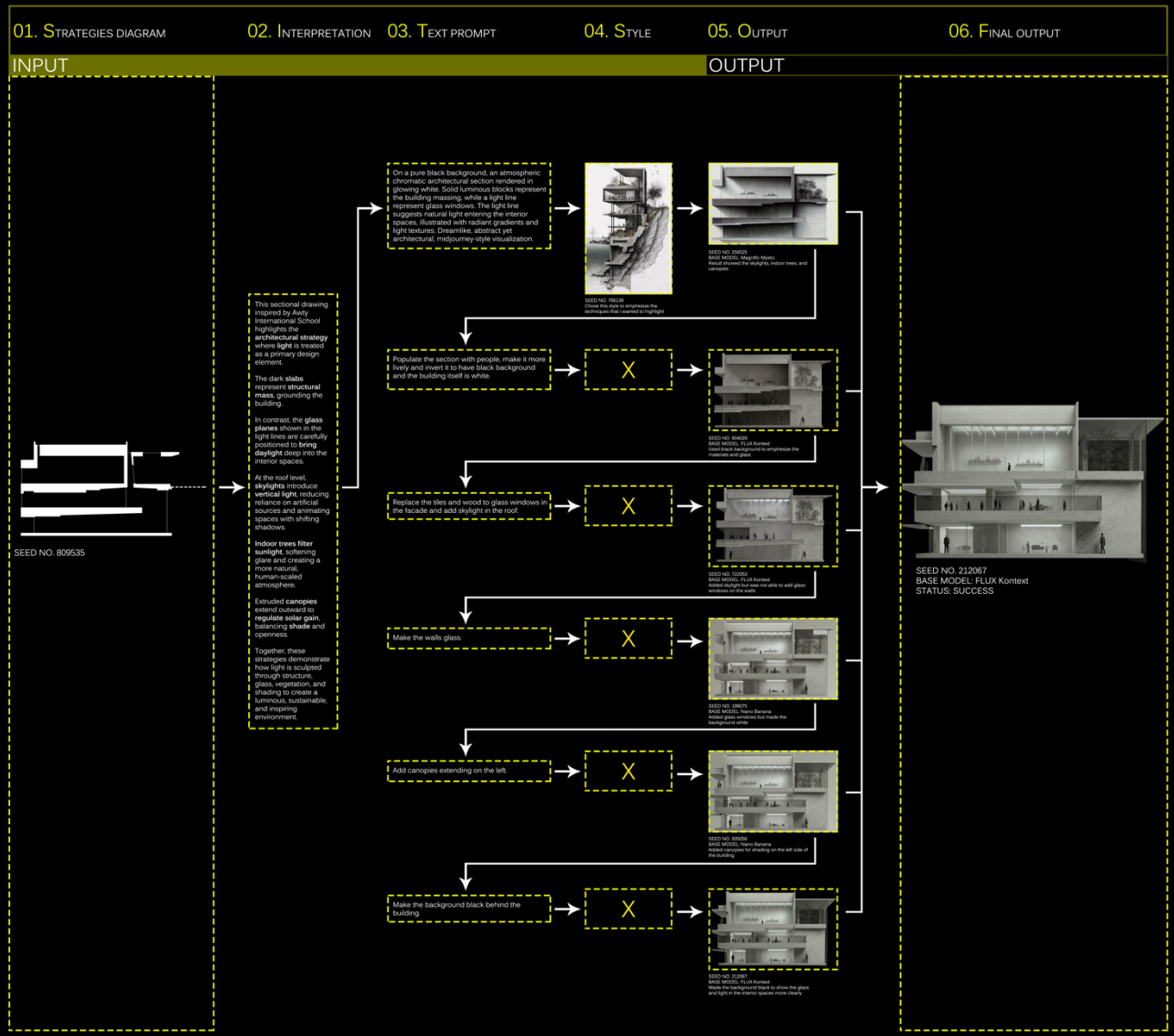
TEST-CASE APPLICATION III
Fall 2025 | UTA School of Architecture



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M.Arch. Design Studio, Fall 2025, Students: Mustapha Hassan + Manal Hassan

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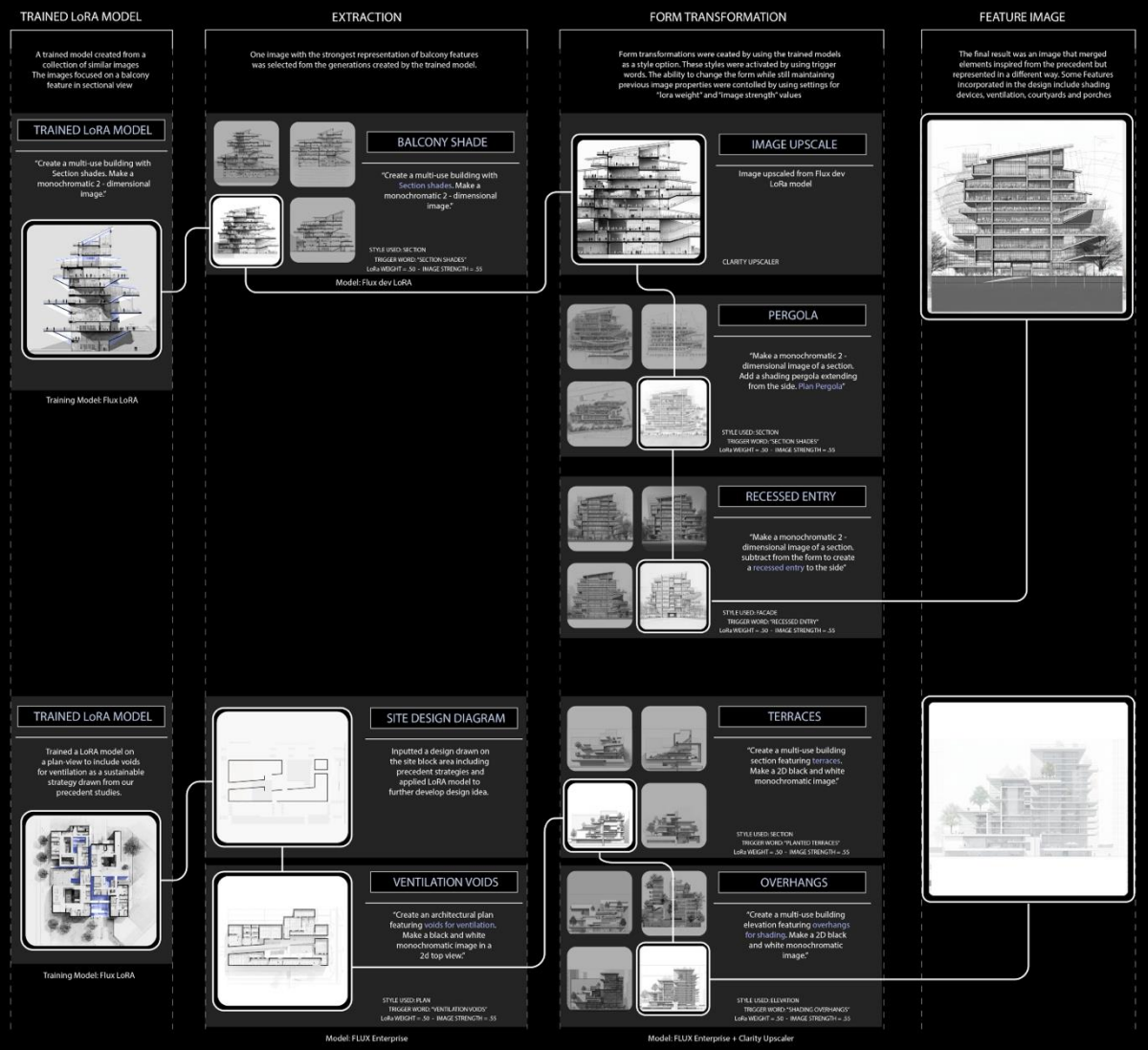
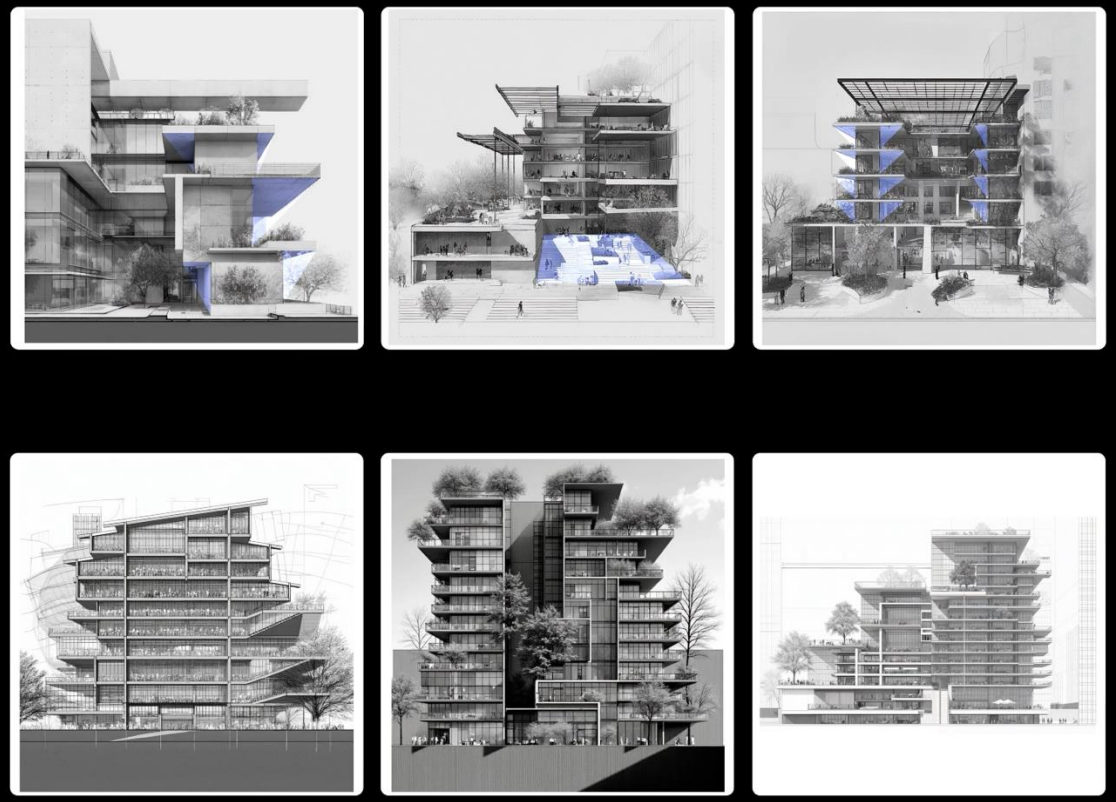
TEST-CASE APPLICATION 3
Fall 2025 | UTA School of Architecture



TEST-CASE APPLICATION 3
Fall 2025 | UTA School of Architecture



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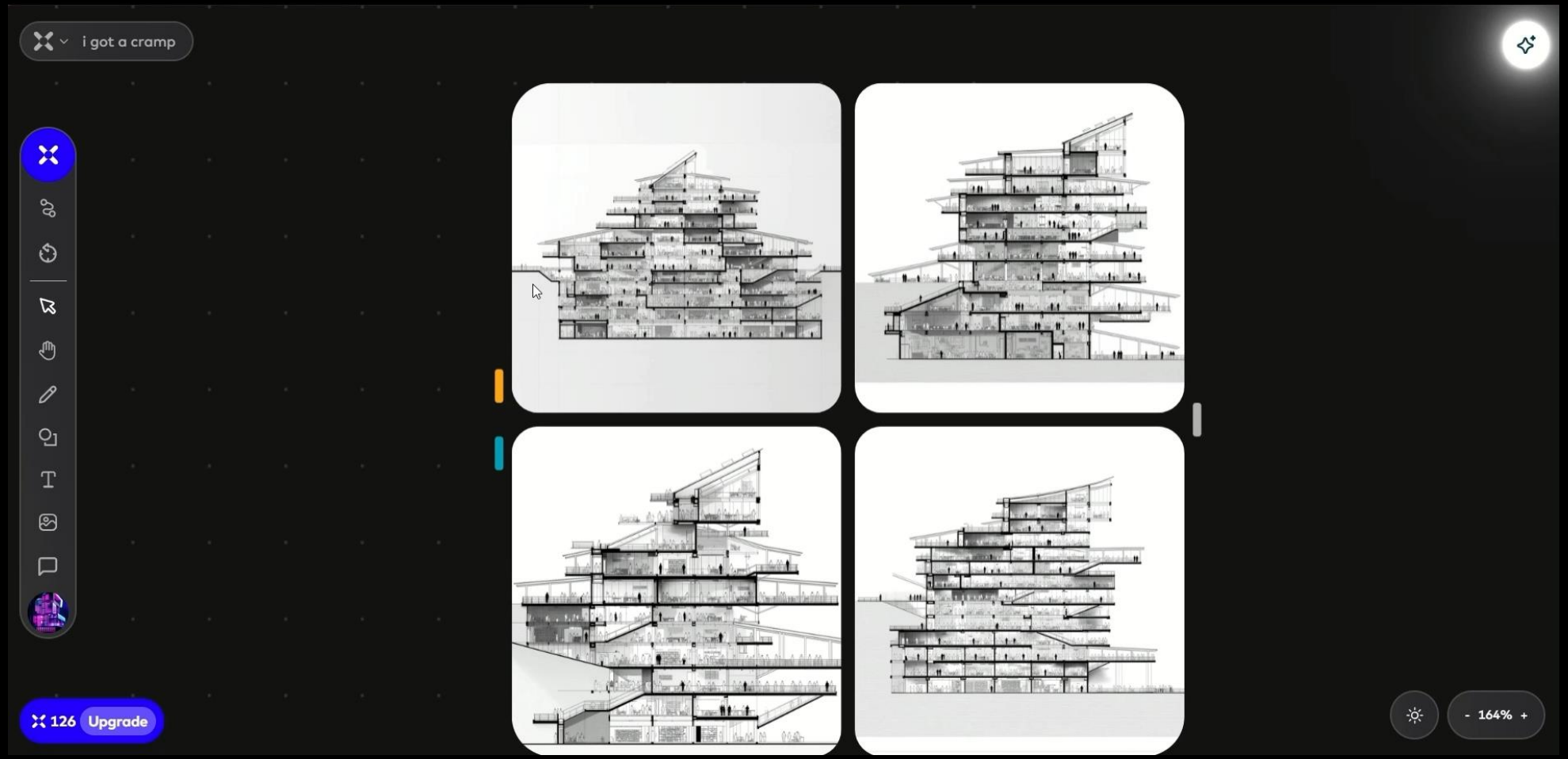
M.Arch. Design Studio, Fall 2025, Students: Areej Darma+ Mario Belt

TEST-CASE APPLICATION 3
Fall 2025 | UTA School of Architecture



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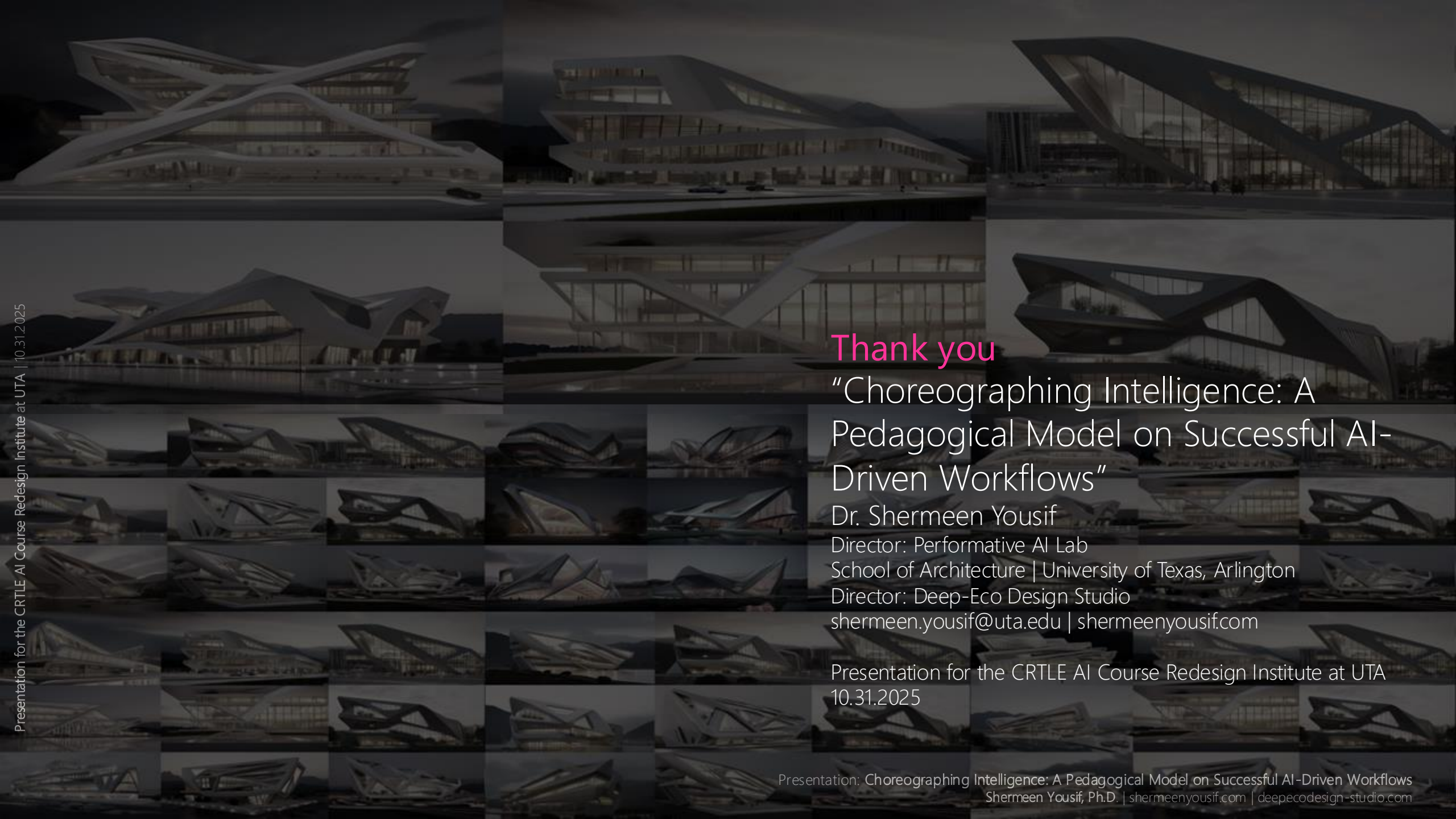

Thank you

"Choreographing Intelligence: A Pedagogical Model on Successful AI-Driven Workflows"

Dr. Shermeen Yousif
Director: Performative AI Lab
School of Architecture | University of Texas, Arlington
Director: Deep-Eco Design Studio
shermeen.yousif@uta.edu | shermeenyousif.com

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10.31.2025