



EVENT

## The Perception of Architectural and Urban Ambiances in Virtual Reality

To start  
new research  
pathways...

# OPENING CORAU LIS RESEARCH

AAU-CRENAU laboratory  
ENSA Nantes  
29/11/21-1/12/2021

Seminar chaired by Hadas Sopher, Laurent Lescop  
Guests: Dafna Fisher-Gewirtzman, Technion Israel Institute of Technology  
Filip Biljecki, National University of Singapore

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# THE PERCEPTION OF ARCHITECTURAL AND URBAN AMBIANCES IN VIRTUAL REALITY. THE OPENING OF THE CORAULIS TO RESEARCH

AAU Laboratory, ENSA Nantes, 29/11/21-1/12/2021

«We live in a physical world whose properties we have come to know well through long familiarity. We sense an involvement with this physical world which gives us the ability to predict its properties well. For example, we can predict where objects will fall, how well-known shapes look from other angles, and how much force is required to push objects against friction. We lack corresponding familiarity with the forces on charged particles, forces in non-uniform fields, the effects of non-projective geometric transformations, and high-inertia, low friction motion. A display connected to a digital computer gives us a chance to gain familiarity with concepts not realizable in the physical world. It is a looking glass into a mathematical wonderland». Ivan Sutherland, 1965.

Developments in digital and VR systems open new trajectories of research and education, able to address how these technologies can improve architectural environments and the ways we explore, study and teach architectural contexts. The opening of the CORAULIS Observation Center in Augmented Reality and Sound Immersion Site signifies the opportunity to discuss these trajectories in greater detail and start new research pathways. We aim to discuss and explore state-of-the-art research and methods held in digital and VR systems.

Topics include:

- . VR, AR, MR & Visualization
- . VR, AR, MR & Education
- . Analytical tools, Spatial Analysis
- . Computational tools & Social factors - Collaboration & Participation.

## Program

<b>November 29</b> Room CRENAU	09:00	Welcome	
	09:30	Introduction	
	10:00	Lecture 1: <i>Experiments in VR supporting the development of Analytical tools for predicting urban Well-being</i>	Dafna Fisher-Gewirtzman, Technion Israel Institute of Technology
	11:00	Lecture 2:	Laurent Lescop, ENSA Nantes
	12:00	Break	
CORAULIS	14:00	Experiment - CORAULIS Lab	Dafna Fisher-Gewirtzman, Yala Trossman PhD student (Technion Israel Institute of Technology), Laurent Lescop, Hadas Sopher.
	16:00	Break	
ENSA Nantes Room 2A12	16:30	Post-experiment discussion	Dafna Fisher-Gewirtzman, Yala Trossman, Laurent Lescop, Hadas Sopher.
<b>November 30</b> Room 2A12	09:30	Lecture 3: <i>Research at the NUS Urban Analytics Lab</i>	Filip Biljecki, National University of Singapore
	10:30	Scientific Conversations with Researchers	Rebecca Fribourg, Thomas Leduc, Vincent Tourre.
	11:30	Scientific Conversations with Doctorants	Michele Atie, Gabriel Giraldo, Yang Lu.
	12:30	Break	
Room CRENAU	14:00	Face to Face: Talks with researchers and students	Dafna Fisher-Gewirtzman
Room 2A12	16:30	Window to Architectural Design Pedagogy	Technion Israel Institute of Technology, Florida A&M University, HafenCity Universität Hamburg, ENSA Nantes.
<b>December 1</b> Room 2A12	09:00	The CORAULIS projects	Bruno Suner
Room CRENAU	14:00	Face to Face: Talks with researchers and students	Dafna Fisher-Gewirtzman