CURRICULUM VITAE

JAKE (J.K.) TAN

New Media Artist
Creative Technologist
Design Engineer
Art-Tech Entrepreneur
Educator

BIOGRAPHY

Jake Tan is a New Media Artist, Creative Technologist, Design Engineer, Educator, and Co-founder of SERIAL CO_ since 2020.

Jake has exhibited globally at esteemed platforms such as Arte Laguna Prize (Venice, 2024), Arts Korea Lab Festival (Seoul, 2024), and STEAM Imaging II Award (Bremen and Linz, 2019). He has also completed over 40 corporate commissions, competitions and residencies within his professional and artistic practice – with institutions such as the ArtScience Museum, Dino Zoli Foundation, and MoCA, plus global brands like BBC, Vogue, and Shiseido.

Jake's artistic practice investigates the sublime from scientific phenomena, focusing on the intersection of living systems and digital frameworks, drawing inspiration from natural intelligence and systems — such as plant growth patterns, unexplained physics occurrences and neural networks — often with scientific or adjacent field collaborators, to develop peripheral and horizontal knowledge production whilst maintaining legibility for the everyday audience.

His first acclaimed work, *BIOS: Living NFTs* (2022), introduced the world's first day-to-day dynamic NFT framework, enabling *digital plants* to grow on the blockchain. It sold 256 editions during Singapore Art Week 2022 and has since evolved through five iterations in public art festivals, spawning two derivative works. Among them, *MR(AI)* (2023) explores the temporal immateriality of love through a hybrid NFT heart powered by real-time cardiac data, blending cutting edge tech with artistic expression.

Treating digital data as materiality, Jake has mastered a diverse range of digi-physical media, spanning hardware (*3D printing, microcontrollers*), 2.5D displays (*AR/MR, projection mapping, virtual production*), and interactive software development (*generative, simulation, game development*). He balances all these as a multidisciplinary founder-artist-educator role, teaching at Nanyang Technological University and LASALLE College of the Arts from 2022 to 2025.

Jake is now at Harvard University's Graduate School of Design and Harvard John A. Paulson School Of Engineering And Applied Sciences for his postgraduate studies in the Masters in Design Engineering program.

CONTACT

English (native)   Singaporean Citizen
Chinese (fluent)   08 July 1994

Mobile: (+65) 9788 7070   LinkedIn: www.linkedin.com/in/jxke
Website: www.jxke.co   Corporate: www.serial.sg
Email: jxketan@gmail.com   Corporate Email: jake@serial.sg

EDUCATION

Harvard University, GSD & SEAS
Master in Design Engineering (2025 - 2027)

Nanyang Technological University,   **Nanyang Technological University,**
Nanyang Business School   **School of Art Design & Media**
MiniMasters™ in General Management   *Bachelors in Fine Arts(Hon) Distinction*
(2021)   *Major in Interactive Media*
                                               (2016 - 2020)

MAGES Institute of Excellence   **Republic Polytechnic**
Professional Certificate in   ***School of Technology for the Arts***
XR Immersive Technology   *Diploma in New Media*
(2021)   *(2011 - 2014)*

SKILL-SETS

Web Development	HTML, CSS, Javascript, React, Next.js, Vite, Three.js, A-Frame
Pedagogy	New Media Art Theory, Spatial Design & Development
Digital Production	TouchDesigner, Unreal Engine, Unity, P5.js, Max/MSP/Jitter, Processing, Nodebox, Blender, Rhino3D, Grasshopper, Fusion, Adobe Photoshop, Illustrator, Premiere Pro, After Effects, Resolume, NDI, Arduino, Kinect, Realsense, Inkscape
Physical Production	3D Printing, Metalworking, Woodworking, Laser Cutting
Application Development	Java, C#, Arduino, Swift, Python, RealityKit, OpenFrameworks
Blockchain	Solidity, Arweave
Artificial Intelligence	Mediapipe, TensorFlow, PyTorch, ComfyUI, Isaac Sim

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UPCOMING AND ONGOING PROJECTS

"Singularities: Of Primordial Black Holes" (*Optical Sculpture*)
MIT.nano Artwork Collection
2025   MIT Arts, Culture and Technology Cube (Massachusetts, United States)
2026   MIT.nano (Massachusetts, United States)

"DATA-ST0RM" (New Media Sculpture)
「99years」Digital Art Week Asia 2026
2026   Singapore Art Week 2026, Tiong Bahru Air Raid Shelter (Singapore)

PAST PROJECTS

"Drawing Waves" (Kinetic Installation)
2025   MIT Media Lab (Massachusetts, United States)

"1 Qubit" (*Quantum Simulation Sculpture*)
Quantum Perspective: The Art of Interference
DinoZoli Foundation SGGP F1 Art Exhibition
2025   ArtsHouse (Singapore)

Bring Your Own Beamer: Currents (*Organiser, Technical Lead*)
2025   284 River Valley Rd (Singapore)

"In Flux" (*Data-driven Installation*)
Portals Exhibition, CMD.EXE
2025   Battlebox (Singapore)

"MR(AI)" (*Dynamic NFT*)
「99years」Digital Art Week Asia 2026
2026   Singapore Art Week 2026, Tiong Bahru Air Raid Shelter (Singapore)
Art in Motion
DinoZoli Foundation SGGP F1 Art Exhibition
2024   ArtsHouse (Singapore)
INSTINC20
2024   INSTINC Gallery (Singapore)
19th Arte Laguna Art Prize
2024   Arsenale Nord (Venice, Italy)
Immersio 2024
2024   GMBB (Kuala Lumpur, Malaysia)

"Immortal Kokedama" (*Dynamic NFT*)

	HEAL: Repair+
2023	Singapore Design Week 2024, Centre 42 (Singapore)

"Mesh of Tree Roots" *(New Media Porcelain Vase)*
Tokyo Creative Salon

| 2024 | Yoyogi Gym (Tokyo, Japan), Shibuya Hikarie (Tokyo, Japan) |

"Dancing The Algorithm (DaTA)" *(Motion-based AI Data Algorithm)*
National Arts Council, Esplanade Singapore

2024	Arts Korea Lab Festival (Korea)
2024	Istanbul Digital Art Festival (Turkey)
2023 - 2024	Performing Arts X Tech Lab, Esplanade Annexe Theatre (Singapore)

The Migration Arts Residency *(Digital Residency, Organiser)*
The Migration: Between Systems, In Practice *(Phygital Exhibition)*
National Arts Council (Singapore), United Overseas Bank (Singapore)

| 2023 - 2024 | Singapore Art Week 2024, UltraSuperNew (Singapore) |

"In Hot Waters" *(Dynamic NFT Art Project)*
Data & Design for a Sustainable Future *(Round-table Discussion)*

| 2023 | Singapore Design Week 2023, National Design Centre (Singapore) |

"Latent Space" *(Virtual World)*
Pluritopia Cloud Studios, Artist Residency

| 2022 | National Arts Council (Singapore), Arts Council Korea (Korea) |

"BIOS: Living NFTs" *(Non-Fungible Token Art Project)*
"BIOS: Bonsai Specimens" *(Installation)*
In the Ether Festival

| 2024 | Art Science Museum (Singapore) |

BIOS Media Sculpture *(Installation)*

| 2024 | IMDA Pixel (Singapore) |

BIOS: Full Bloom *(Installation)*
Singapore Design Week 2023: Playground of Possibilities

| 2023 | National Design Centre (Singapore) |

BIOS: Digital Nature *(Exhibition, Installations)*
Singapore Night Fest 2022

| 2022 | National Design Centre (Singapore) |

BIOS: Silkscreen Party and Showcase *(Workshop)*

| 2022 | Mirage - The Parlour |

BIOS FWB Singapore Showcase *(Installation)*

| 2022 | Kult Kafe (Singapore) |

BIOS 01 *(Installation)*

	Networked Machines, Group Show
2022	Singapore Art Week 2022, HATCH ART PROJECT (Singapore)
	H0TDESK, Research Based Artist Residency and WIP Showcase
2021	H0T.HOUSE (Singapore)

	"INTERCONNECTED MACHINES" *(Multi-Channel Installation)*
	DEEP FIELD CINEMA hosted by INTER–MISSION
2021	Singapore Art Week 2021, Aliwal Art Center (Singapore)

	"**The Divine Forest**" *(Projection Mapping)*
2020 - present	The Dempsey Project (Singapore)

	"**Creators Climate Action**" *(AR Artist Collaboration)*
2020	Digital Gallery (Instagram)

	"**IN VIVO: Within The Living**", *(Interactive Kinetic Sculpture)*
	STEAM Imaging II Award
2020	ADM Graduation Show 2020 (Singapore)

	"**We are and or have been**", *(Kinetic Sculpture)*
2020	RE•MIX Festival 2020, Singapore Chinese Cultural Center (Singapore)

	"**THE SHŌNEN SERIES**", *(Facial Augmented Reality(AR) Series)*
2019	ANIME: THE ULTIMATE GENRE-BENDER, Kult Gallery (Singapore)

	"**AISTRONAUT**", *(Interactive Virtual Reality Robotic Installation)*
2019	NOISE METAVERSE EXHIBITION, SCAPE (Singapore)

	"**ANALOGUE IS DEAD**", *(Transmedia Experimental Film)*
2021	Deep Field Cinema, Singapore Art Week, Aliwal Art Center (Singapore)
2021	ON/OFF/SCREENING, Singapore Art Week, The Projector (Singapore)
2018	Campus Party, iDome (Singapore)
2018	School of Art, Design and Media (Singapore)

	"**You're My Type**", *(Transmedia Campaign)*
2014	Republic Polytechnic (Singapore), Red Cross (Singapore)

	Corporate Brands, Commissions, Campaigns & Collaborations
2025	Singapore Tourism Board, World Expo Osaka, SCAPE, MoonLabs Digital, Snapchat APAC, Carlsberg, Connor Stout, Tofu Design, Tang Gallery, IdeaInk, Tusitala
2024	Shiseido (APAC Regional), Shiseido (Singapore), Lumina Live!, Gusto, Samsung, That Marketing Guy, Lucid Experiences, Kingsmen, CIMB Bank, Shopback, Capitaland, Popper Asia, Automata Gallery, UOB,

	Hilton Hotels, ArtScience Museum Singapore, Changi Airport Group, MooveMedia, Samsonite, Enterprise Singapore, The Rice Company Limited, Global Cultural Alliance, BattleBox, Vogue
2023	Singapore Art Museum, The Cocoa Trees, SportSG, International Olympic Committee, Fiftyfive Coffee Bar, World Skills, HMC HAM, People's Association, TMR Media, Shavonne Wong, DBS Bank
2022	SUPERMAMA, DesignSingapore Council, AUX Media Group, ARC Community, INSTINC Gallery, Meta, Meshminds, Kumari Nahappan
2021	BLKJ, StarHub, Nanyang Technological University School of Art, Design, and Media, NTU Museum, Lloyd's Inn, Singapore National Day Parade, Singapore Ministry of Defense, THE GYM, Moonton
2020	Singapore Sports Hub, El Masnou: The Bubble Tea Factory, The Dempsey Project, ArtAcia, H0THOUSE, INTER–MISSION, Currency
2019	Trip.com, LEICA, Within & Co, Kult, BBC Earth, National Arts Council
2018	Campus Party, McDonald's
2014	Red Cross, Singapore Police Force, AMKSFC

EMPLOYMENT HISTORY

	New Media Artist
2018 - current	Studio Jake Tan (Singapore)
2019 - current	**Co-founder**
2019 - 2025	**Director, Tech Lead**
	SERIAL COMMUNICATION PRIVATE LIMITED (Singapore)
2024 - 2025	**Lecturer**
	B-DC221/B-DS201 - Data Spaces
	B-DC232/B-DS203 - Design & Technology
	LASALLE College of the Arts (Singapore)
2022 - 2025	**Lecturer**
	DM2000 - Interactive I
	DM2007 - Interactive II
	DM3015 - Interactive Environments
	Nanyang Technological University, School of Art, Design & Media (Singapore)
2021	**Lecturer**
	DPD3435 - Design for Innovation

Temasek Polytechnic, School of Design (Singapore)

2020 - 2021   **Research Assistant (Interactive Media & Product Design)**
Exoskeleton and Virtual Reality Stroke Rehab Grant
School of Art, Design & Media
Nanyang Technological University (Singapore)

2019 - 2020   **Student Body Chairperson**, ADM Graduation Show 2020
School of Art, Design & Media
Nanyang Technological University (Singapore)

2019 - 2020   **Creative Technologist**
Kult Studio & Gallery (Singapore)

2018 - 2020   **Work-Student Assistant**, Interactive Media, Film, IT and A/V Department
School of Art, Design & Media
Nanyang Technological University (Singapore)

2017 - 2019   **Assoc. Trainer**, Art, Media & STEM Department
Mastereign Enrichment Group (Singapore)

2019   **Art Assistant**, Sim Lim Square Art Residency
INTER—MISSION, National Art Council (Singapore)

2018   **Main Programmer**, Exploding The Frame Show
Campus Party 2018 (Singapore)

2016 - 2017   **Chairperson**, ADM Freshmen Orientation Programme 2017
School of Art, Design & Media
Nanyang Technological University (Singapore)

2014 - 2016   **National Service Enlistee** (Transport Operator)
Republic of Singapore Air Force (Singapore)

2011 - 2018   **Assoc. Cinematographer & Photographer**, Wedding & Events
Express-Oh! Photography (Singapore)

AWARDS & RESIDENCIES

APE CAMP 2025, Selected Artist

2025	Arts Council Korea
2024	**19th Arte Laguna Art Prize**, Digital Art Finalist Modern Contemporary Art Association (Italy)
2024	**VOGUE Talent Prize 2024**, Top 5 Finalist VOGUE (Singapore)
2023 - 2024	**Performing Arts X Tech Lab**, Awarded Artist National Arts Council, Esplanade (Singapore)
2023	**Y-Lab Foundry 2023**, Finalist National Gallery (Singapore)
2023	**Julius Baer: Next Generation Art Prize**, Finalist Bank Julius Baer & Co. Ltd. (Singapore)
2023 - 2024	**IMDA Pixel Lab,** Awarded Tech Startup Incubation Programme IMDA (Singapore)
2022	**100 Founders Sandbox Somerset**, Awarded Creative Founder National Youth Council (Singapore)
2022	**Meta Spark AR Hackathon Asia,** Singapore Representative Meta (Thailand)
2022	**Pluritopia Cloud Studios**, Awarded Artist National Arts Council (Singapore), Arts Council Korea (Korea)
2022	**SMU BIG Incubation**, Awarded Startup Incubation Programme Singapore Management University (Singapore)
2021	**GARAGE@ADM**, Awarded Startup Incubation Programme Nanyang Technological University (Singapore)
2021	**H0TDESK**, Research Focused Artist Residency, Selected Artist H0THOUSE (Singapore)
2019	**ADM Sustainability Award 2020**, Top 10 Finalist Nanyang Technological University (Singapore)
2019 - 2020	**STEAM Imaging II Artist-In-Residency Award,** Awarded Artist Fraunhofer MEVIS Institute for Digital Medicine (Bremen, Germany) & Ars Electronica (Linz, Austria)

	Facebook Spark AR Hackathon Asia, Singapore Representative
2019	Facebook (India)
	NOISE METAVERSE, Awarded Artist
2019	National Art Council (Singapore), NOISE Singapore

SCHOLARSHIPS & GRANTS

Academic Studies

2025 - 2027	DesignSingapore Scholarship
2021	Critical Infocomm Technology Resource Programme PLUS IMDA Funding
2019 - 2020	Ministry of Education (Singapore) Bursary
2018 - 2019	Hotel 81 - Choo Chong Ngen Bursary

OTHER CERTIFICATIONS

2024	United Overseas Bank x National Arts Council Acceleration Programme for the Arts
2021	Temasek Polytechnic – Professional Development Programme in Pedagogy
2021	LinkedIn Asia Pacific – Java, Adobe Photoshop
2020	CITI Program – Social & Behavioral Research - Basic/Refresher
2017	Ministry of Education Art Music Instructor (AMIS)

PEDAGOGY

	B-DC221/B-DS201 - Data Spaces **B-DC232/B-DS203 - Design & Technology** **Lecturer (PT)**
2024 - 2025	LASALLE College of the Arts (Singapore)
	DM2000 - Interactive I **DM2007 - Interactive II**

2022 - 2025	**DM3015 - Environments** **Lecturer (PT)** School of Art, Design and Media Nanyang Technological University (Singapore)
2024 - 2025	**Art Elective Programme** **Lecturer** School of Art, Design and Media Nanyang Technological University (Singapore)
2021	**DPD3435 Design for Innovation Module** **Lecturer (PT)** School of Design Temasek Polytechnic (Singapore)
2019-2021, 2023	**New Media Technology, Consultant and Guest Speaker** Millennial Nomad Space, Department of Architecture, Post Graduate National University of Singapore (Singapore)
2019 2019	**Workshop Leader and Artist Guest Speaker** International Fraunhofer Talent School Bremen Fraunhofer MEVIS (Bremen, Germany) Ars Electronica Center (Linz, Austria)
2019	**Augmented Reality Guest Speaker and Trainer** LASALLE Animation Programme & NTU School of Art, Design and Media LASALLE College of the Arts (Singapore)
2019	**Augmented Reality Consultancy** Animation Diploma Programme LASALLE College of the Arts (Singapore)
2017-2019	**Art, Media & STEM Trainer** Ministry of Education: Primary and Secondary Level Schools

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PRESS & CITATIONS

2026	**Warren Wee's "99 Years" Exhibition At Digital Art Week Asia 2026 Takes Place In An Air Raid Shelter** a+

What is Creative Technology? A Curator's Thoughts on Media, Art, and Design
2025   RiceMedia

Our DesignSingapore Scholars
2025   DesignSingapore Council

Battlebox, but make it art: Portals will change how you see this underground bunker
2025   Asiaone

Arts Picks: Portals at Battlebox, Lincoln Townley solo, SAM access showcase
2025   The Straits Times

Step Into History and Innovation at Battlebox's 'Portals' Exhibition
2025   Alvinology Media

We Checked Out The New Interactive Exhibition In Battlebox At Fort Canning & Here's Our Honest Review
2025   TheSmartLocal

Arts and Technologies in ASEAN: Interconnected Parts
Del Rosario, M. et. al. for Creative Friction Ltd. (2025). British Council. https://doi.org/10.57884/ZJ1Q-FZ90
2025   British Council

An insider's guide to Singapore Art Week: Yeo Shih Yun
2025   The Art Newspaper

The Pulse of the Contemporary: The Arte Laguna Prize at the Northern Arsenale
2024   Juliet Art Magazine

Arts Picks: ArtScience Museum's AI fest, Wild Rice's studio show Dive, Ang Ah Tee at Confluence
2024   The Straits Times

A Quick Journey into the Ether at the ArtScience Museum
2024   Plural Art Mag

The ArtScience Museum's "In the Ether" – free Festival of Technology and Innovation
2024   MoneyFM 89.3

Emerging Technologies and Innovative science collide at ArtScience Museum
2024   Marina Bay Sands

Art in Motion: AI Creatives at the Singapore Night Race
2024   Juliet Art Magazine

L'Italia accelera Singapore: scienza e tecnologia italiana, celebrata durante il Gran Premio di F1
2024   Innovitalia

ART IN MOTION: AI CREATIVES AT THE SINGAPORE NIGHT RACE
2024   Fondazione Dino Zoli

Vogue Talent Prize 2024 presented by CHARLES & KEITH
2024   VOGUE

Bridging Performing Arts and Technology to learn about Experimental Experiences
(为表演艺术与科技搭桥 邀请公众了解实验心得 **)",**
2024   Lianhe Zaobao, 联合早报

Being Human in a Digital World
2024   Deloitte Southeast Asia, Deloitte Center for the Edge

Creative Technology is Destroying How We Make Art
2023   AWE Asia 2023

The Role of HASS in a STEM World
2023   Nanyang Technological University

Where are NFTs now? Singapore's creatives reclaim space after market wipe-out
2023   The Business Times

Digitalising National Day
2023   ChannelNewsAsia, Singapore Tonight

Bringing NDP to Homes
2023   CNA 938, Night Life with Mike Tan

ADM Prospectus 2023
2023   Nanyang Technological University, School of Art, Design & Media

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[Instagrammers may soon be able to buy and sell NFTs without using cryptocurrency](#)

2022   StraitsTimes

[Blending the Physical and Digital Worlds: Serial Communication](#)

2022   Singapore Management University

[Passion not enough: Lessons on growing a business](#)

2022   Nanyang Technological University

[NFTs: Finding the diamonds among the duds](#)

2022   The Business Times

[BIOSNFT Featurette](#)

2022   CryptocubCulture

[Further Education with Nanyang Business School with 938 Live](#)

2022   CNA 938, Nanyang Business School

ADM Prospectus 2022

2022   Nanyang Technological University, School of Art, Design & Media

[Commissioned for Marina Bay Singapore Countdown 2022](#)

2022   Nanyang Technological University

[VARIEGATIONS: A Four-Episode Capsule by Ernest Wu & Jake Tan](#)

2021   ArtBizTech News Letter

DEEP FIELD CINEMA OMNIBUS 2020/2021 (2021)
ISBN 978-981-18-1897-4

2021   H0T.HOUSE

[What is Extended Reality and Why Should You Care? Webinar Panel Discussion](#)

2021   Republic Polytechnic, AUX Media Group

[Bridging the Knowledge Gaps in Business](#)

2021   Nanyang Technological University

[Surviving recession: I didn't plan to start a firm after uni. COVID-19 made me do it](#)

2021   Channel News Asia

2021

HOW 12 SINGAPOREANS WEATHERED COVID-19'S ECONOMIC FALLOUT
Channel News Asia

2021

MIDAS: Multi-sensorial Immersive Dynamic Autonomous System Improves Motivation of Stroke Affected Patients for Hand Rehabilitation. Sinha, Anoop Kumar; Kow,, Fok-Chi-Seng Fok; Ming, Zhang Jin; Songyu, Bao; Kang, Jake Tan Jun; Jeffrey, Hong Yan Jack; et al. (2021): TechRxiv. Preprint.

2021

Deep Field Cinema | All Artists - Roundtable Discussion
INTER – MISSION

2021

SINGAPORE ART WEEK 2021 -Deep Field Cinema-
I-A-F-T

2020

Grad-Titude – Keep It Real Podcast Episode 3
The Effect of Pandemic on the Media and Entertainment Industry
Republic Polytechnic

2020

Graduation ceremonies in Singapore are cancelled — what's next?
Mothership

2020

ADM Student Experience
Nanyang Technological University, School of Art, Design & Media

2020

New Age Traditional Sculptures
Lianhe Zaobao 联合早报

2020

Singapore Chinese Cultural Centre organises first youth festival Remix
StraitsTimes

2020

In Vivo: A perspective on consciousness through interdisciplinary collaboration in an age of man, nature and technology.
Tan, J.K. (2020) Nanyang Technological University.

2020

STEAM Imaging II Evaluation Summary
Schnugg, Claudia. 10.13140/RG.2.2.31104.17928.

2019

Patient Bonsai
Fraunhofer MEVIS

2019

Patient Bonsai
Ars Electronica

2019   Nanyang Technological University, School of Art, Design and Media

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WORKSHOPS & TALKS

Spatial Computing and the Arts
2025   Apple Developer Centre

Lorong AI - AI ToolsDay: What can AI do for audio and visuals?
2025   Lorong AI (WeWork@22 Cross St.)

Interdisciplinary Workshop: Introduction to TouchDesigner
2025   LASALLE College of the Arts

ADMxSOTA Workshop: Visual Programming
2024   Nanyang Technological University, School of Art, Design and Media

Seminar AI&Motion: The Inertia of Combining Art and Data
2024   Embassy of Italy

Expanding the Realms of Artistic and Cultural Learning with XR
2024   AWE Asia 2024

MOE Arts Elective Program Workshop: Visual Programming
2024   Nanyang Technological University, School of Art, Design and Media

Creative Technology is Destroying How We Make Art
2023   AWE Asia 2023

Navigating and Building the Metaverse
Guest Speaker
LASALLE Arts Management Programme
2023   LASALLE College of the Arts (Singapore)

From Sketch to Screen - Workshop II
2023   The Migration Arts Residency, UltraSuperNew Gallery

From Sketch to Screen - Workshop I
2022   The Migration Arts Residency, PIXEL

	DM3001 Interactive Devices Module
	Guest Speaker
	School of Art, Design and Media
2021	Nanyang Technological University (Singapore)
	DM3015 Interactive Environment Module
	Guest Speaker
	School of Art, Design and Media
2021	Nanyang Technological University (Singapore)
	STEAM Imaging II - Workshop
2019	Ars Electronica