

# Yujun/Katherine Chen

## Media Portfolio

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### Interactive Installations

Project	Description	Link
★ Ephemeral Echoes	A four-window installation that visualizes the dissolution of bodily presence into a marine environment using depth tracking.	<a href="#">[Video Preview]</a>
★ Algorithmic Gestures	Uses MediaPipe hand-tracking to turn gestures into real-time algorithmic commands that transform geometric structures.	<a href="#">[Video Preview]</a>
★ Liminal Tide	A four-window generative installation where Leap Motion hand-tracking controls fluid simulations of ocean cycles.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
★ Air Guitar Air Keyboard	A performance system using MediaPipe and Unity 3D to translate hand gestures into virtual guitar/Keyboard sounds and visuals.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
★ Embodied Fields	A live A/V system using MediaPipe full-body tracking to map a performer's motion to sound synthesis and a 3D avatar.	<a href="#">[Video Preview]</a>
Rainspace	Uses Kinect Azure and TouchDesigner to transform body motion into a living, real-time rainfall of light particles.	<a href="#">[Video Preview]</a>
Dancing Lines	Uses Kinect Azure to capture body motion, translating movements into flowing trails of light like a digital brush.	<a href="#">[Video Preview]</a>
Liminal Tide	A four-window generative installation where Leap Motion hand-tracking controls fluid simulations of ocean cycles.	<a href="#">[Video Preview]</a>
Bloom in Fragments	A generative piece where Leap Motion hand gestures control the real-time birth and dissolution of a pixelated flower.	<a href="#">[Video Preview]</a>
Abyssal Motion	An interactive GLSL installation where Kinect depth-tracking gestures guide a swarm of jellyfish through underwater currents.	<a href="#">[Video Preview]</a>
Body as Brush	Uses Kinect Azure to capture the user's silhouette, turning it into an instrument of "ink" and light that draws ephemeral traces.	<a href="#">[Video Preview]</a>
Bloom Algorithm	Maps performer's movements via Kinect Azure to a 3D particle field, creating generative, algorithmic blossoms.	<a href="#">[Video Preview]</a>
Vortex	A hand-controlled GLSL water tunnel where Kinect gestures modulate the vortex's radius, rotation, and turbulence in real time.	<a href="#">[Video Preview]</a>
Gesture Syntax	A dual-hand interactive system using MediaPipe where one hand switches visual layers and the other controls scale and rhythm.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Celestial Field	Uses Kinect or RealSense sensors to transform body gestures into a cosmic force that disperses or gathers a starfield.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Drift 絮	A generative piece where mouse interaction stirs streams of color, simulating digital fabric flowing in an invisible wind.	<a href="#">[Video Preview]</a>
Cosmic Gate	An installation where moving through Kinect-mapped trigger points dynamically morphs a GLSL-rendered generative tunnel.	<a href="#">[Video Preview]</a>

## Audiovisual Systems

Project	Description	Link
★ Audiovisual Cosmic Journeys	An 11-minute real-time A/V performance in TouchDesigner translating MIDI/audio into generative space-inspired visuals.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Spectral Summer I & II	An audiovisual study that transforms sound frequencies into evolving real-time constellations of light and geometry.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Pulseform	A generative jellyfish form driven by sound frequencies, turning audio data into fluid, bioluminescent gestures.	<a href="#">[Video Preview]</a>
Sonic Topography	A generative audiovisual field that visualizes sound as a shifting terrain, where frequencies shape the landscape's height and light.	<a href="#">[Video Preview]</a>

## Generative Arts

Project	Description	Link
★ Surge 涌 (Yǒng)	A GLSL-based fluid simulation in TouchDesigner visualizing the continuous transformation of virtual matter driven by turbulence.	<a href="#">[Video Preview]</a>
★ Luminous Currents 光流	A real-time fluid simulation exploring the behavior of digital energy as it flows, collides, and dissolves in a feedback field.	<a href="#">[Video Preview]</a>
★ Transient Plexus 瞬息之网	A generative visualization of fleeting connection, where particles weave transient networks that appear, fracture, and fade.	<a href="#">[Video Preview]</a>
★ The Garden 浮生之庭	A generative point-cloud environment that constructs an ever-evolving digital ecosystem of light and motion.	<a href="#">[Video Preview]</a>
★ Reconstruction Series	Reconstructs real environments (like a forest) into fragmented digital terrains using 3D scanning and point clouds.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Vanishing Form 消逝之形	A minimal point-cloud study where particles within a cubic boundary appear, hold their form, and gradually dissolve.	<a href="#">[Video Preview]</a>
Soliloquy of Flowers 花的独白	Transforms natural blossoms through blob tracking, creating an ever-shifting field between form and abstraction.	<a href="#">[Video Preview]</a>
Deconstruction Series	Explores organic forms (like coral) through blob tracking and fluid displacement, representing states of growth, bloom, and erosion.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Abyssal Terrain 深渊之地	A GPU-driven particle terrain system that simulates organic currents and sedimentary motion on a virtual seabed.	<a href="#">[Video Preview]</a>
Frozen Flow 凝流	A generative study of frozen motion, capturing the tension between liquid and solid in a crystalline, glass-like landscape.	<a href="#">[Video Preview]</a>
Ephemera Series 瞬息星尘系列	A generative exploration of light and cosmic impermanence, visualizing the emergence and disappearance of digital matter.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Algorithmic Mandala Series	Uses p5.js to explore algorithmic symmetry and recursion, evolving geometric patterns into complex mandala-like forms.	<a href="#">[Video Preview]</a> <a href="#">[Video Preview]</a>
Chromatic Geometry	A generative system inspired by Kandinsky, using geometry, color, and motion to create evolving spatial compositions.	<a href="#">[Video Preview]</a>
Time Grid	A visual meditation on temporal flow, capturing fragments of motion and arranging them as a grid of evolving instants.	<a href="#">[Video Preview]</a>

## Interactive Applications

Project	Description	Link
★ MovieBot	A multimodal chatbot integrating IMDb recommendations, sentiment analysis, and image processing, built with Streamlit, nltk, and OpenCV.	<a href="#">[Live Demo]</a> <a href="#">[Video Preview]</a>

## Industry Projects: EY wavespace

Smart	Customer Service Experience Innovation Forum	<a href="#">[Video Preview]</a>
Metaverse	★ Metaverse Lab	<a href="#">[Video Preview]</a>
	5-min Metaverse Journey	<a href="#">[Video Preview]</a>
China International Import Expo	★ Design creation in the metaverse	<a href="#">[Video Preview]</a>

## Digital Platforms:Y-Platform

Douyin	@YChina (130 million Likes; 8 million Followers)	<a href="#">[Website]</a>
Bilibili	@YChina (4.5 million Subscribers)	<a href="#">[Website]</a>
Weibo	@YChina (5.8 million Followers)	<a href="#">[Website]</a>
YouTube	@Ychinamedia (279K Subscribers)	<a href="#">[Website]</a>

## Animation

2D Motion Graphics	Agricultural Bank of China	<a href="#">[Video Preview]</a>
3D Modeling	Transportation	<a href="#">[Video Preview]</a>
	Factory	<a href="#">[Video Preview]</a>
Animation Collection		<a href="#">[Video Preview]</a>

## Documentary

The Art and Soul of Zhangzhou Puppets 2023	Director	<a href="#">[In editing]</a>
A City Symphony_One Day in Chicago 2015	Director; Director of Photography; Editor Official Selection: Rolling ideas	<a href="#">[Video Preview]</a>
Flower Dance in Lailuo Village 2015	Assistant Director	<a href="#">[Video Preview]</a>

## Film Festivals Awards

Roles	Project Name	Official Selection	Semi-Finalist Finalist	Award Winner
Producer Director Writer Editor Colorist	2020 ★ <b>Dust in the Wind</b> <a href="#">[Video Preview]</a>	-Orlando International Film Festival -Fort Lauderdale International Film Festival -Golden Door International Film Festival -Asian Film Festival -Top Indie Film Awards -Tokyo Lift-Off Film Festival -Longless Film Festival -Genre Celebration Festival -The Lift-Off Sessions	-Cyprus International Film Festival "Golden Aphrodite" -Wales International Film Festival	-Tripvill International Film Festival -Independent Star Filmfest Munich
<b>Outline:</b> Two young Chinese girls in Chicago provide unwavering support until a life-altering nightmare changed everything.				
Producer Sound/ Music Editor	2019 <b>Bury</b> <a href="#">[Video Preview]</a>	-Will Rogers Motion Picture Festival -Reel East Texas Film Festival -First-Time Filmmaker Sessions -Rolling ideas	-Rome Prisma Film Awards	
<b>Outline:</b> Amidst the complexities of distance and moral dilemmas, two young individuals engage in a clandestine affair, navigating the challenges of love and ethics.				
Producer	2019 <b>Promise Me</b> <a href="#">[Video Preview]</a>	- San Francisco Short Film Festival -Chinese American Film Festival -Bucharest Film Awards -The Lift-Off Sessions -SHORT to the Point -17th Annual ReelHeART International Film and Screenplay Festival -Fort Myers Beach International Film Festival	-BLASTOFF	-Falcon International Film Festival
<b>Outline:</b> A man grapples with the haunting loss of his fiancée and searches for a path to move forward.				
Producer	2018 <b>Memories</b> <a href="#">[Video Preview]</a>	-Vegas Cinefest International Film Festival -Chinese American Film Festival -Toronto Black Film festival -Heritage Film Festival -The First-Time Filmmaker Showcase -The Revere International "Student" Festival	-AltFF Alternative Film Festival -Encontro de Cinema Negro Zózimo Bulbul -Blow-Up Arthouse Filmfest · Chicago	-Feel The Reel International Film Festival
<b>Outline:</b> A young man who visits his aunt in the hospital to find closure for wrongs done in the past.				
Producer Sound/Music Editor	2017 <b>The Sword in Qin</b> <a href="#">[Video Preview]</a>	-Sanctuary International Film Festival -Bharat International Film Festival -SIP Film Festival -Top Indie Film Awards -First-Time Filmmaker Sessions -Lift-Off Sessions	-ShanghaiPRIDE Film Festival	-WorldFest Houston International Film Festival -India Film Festival
<b>Outline:</b> Xie Pianxian possesses the token of 'Qi' and has slain many who sought to steal it. However, when he receives an order to eliminate the next intruder, he discovers that it is none other than his old friend, Lee Xiefang.				
Producer Production Designer	2017 <b>Coporeal</b> <a href="#">[Video Preview]</a>	-Santa Fe Film Festival -Diabolical Horror Film Festival -Fantasm's Shock Reel Cinema Film Festival		
<b>Outline:</b> A young couple, grieving the loss of their daughter, discovers something shocking on her birthday.				
Producer	2016 <b>Evelyn</b> <a href="#">[Video Preview]</a>	-Chilliwack Independent Festival	-26th International Film Festival Golden Beggar	
<b>Outline:</b> A young man, torn by conflicting emotions, wrestles with his relationship between his girlfriend and his mysterious lover.				
Producer Production Designer	2016 <b>And Now Makes Three</b> <a href="#">[Video Preview]</a>	-Sidewalk Film Festival		
<b>Outline:</b> Charles tries a final effort to reconnect with his estranged wife, whose focus has shifted from them as a couple, to them as parents.				