Po-Yao Wu CV

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http://poyaowu.com

Education

National Tsing Hua University | GPA: 4.25/4.3 — Hsinchu, Taiwan
International Intercollegiate Ph.D. Program, Division of TechArt — 2025 - Present
- Enrolled to continue research trajectory while preparing for overseas PhD applications.

National Tsing Hua University | GPA: 4.17/4.3 — Hsinchu, Taiwan
M.S. in Art and Emerging Technology — 2018 - 2021
- Advisor: Prof. Ya-Lun Tao, Chih-Yung Chiu
- Research Area: Media Art, AI Aesthetics, Technology Critique, Posthuman.
  Master's Thesis: *The Clones under Speed: Aesthetic Research on A.I. Generated Images*

National Tsing Hua University | GPA: 3.63/4.3 — Hsinchu, Taiwan
B.E. in Computer Science — 2014 - 2018

Work Experience

PHISON Electronics Corp. | *Senior R&D Firmware Engineer* — Zhunan, Taiwan
Developed NAND flash controller algorithms & Optimized reliability. — 2022 - Present

National Cheng Chi University | *Project Manager* — Taipei, Taiwan
Control Center — Ministry of Culture Technology Art Project. — 2021

National Tsing Hua University | *Project Manager* — Hsinchu, Taiwan
Digital Authoritarianism — Ministry of Culture Technology Art Project. — 2020

Publications

1. **Po-Yao Wu**, Ya-Lun Tao. Artificial Empathy in Divinatory Interaction: The Case of "Self-Journeon". *HCI International 2025 - Late Breaking Posters*, 2025.

2. **Po-Yao Wu**. Taipei-Topia: Aesthetic Approaches to Exploring the Nowhere in the Generative AI Artwork. *2025 IEEE Gaming, Entertainment, and Media Conference*, 2025.

3. **Po-Yao Wu**. Terms of Being Used: Rethinking User Agency in Surveillance Capitalism. *C&C '25: Proceedings of the 2025 Conference on Creativity and Cognition*, 2025.

4. **Po-Yao Wu**. Machine Intelligence: The New Subject of Artistic Power. *ARThon NO.2 : AI (ISBN 978-986-919774-8)*, 2021.

Awards and Honors

- **Golden Prize**, New Media Art Category – National Art Exhibition R.O.C. — 2022.07
- **Silver Prize**, New Media Art Category – Taoyuan Art Award — 2021.10
- **First Award**, Knowledge Taiwan Creativity Award — 2019.10
- **Science Special Award**, Knowledge Taiwan Creativity Award — 2019.10
- **Dr. I-Chi Mei Memorial Medal**, National Tsing Hua University — 2018.06
  Highest Honor for Graduates

Key Team Projects

Control Center — 2021
Viewers enter a mirrored space as their bodies extend through VR and robotics.
- Telepresence VR, 360 Live Capture, Real-time Streaming, Haptic Robotics.

Digital Authoritarianism — 2020
VR interactive space revealing collective memory within authoritarian politics.
- Interactive VR, Web Visualization, Data Analysis, Critical Design.

Mingled Sensations in ConvNets — 2019
Visualizing latent transitions between symbols and objects in neural networks.
- Encoder-decoder CNN Model, Feature Mapping, AI Visualization.

Lapse — 2019
Dual-system interaction revealing signal loss and emergent transformation.
- Image Processing, Real-time Dual Systems, Generative Behavior.

KEY PERSONAL PROJECTS		
SelfJourneon		2025

AI–Tarot interface enabling symbolic reflection through archetypes & emotional dialogue.
- Generative AI, Face Embedding, Archetype Modeling, Conversational Interface.

Terms of Being Used — 2021

AI lip-sync selfies revealing platform power and surveillance-driven identity extraction.
- Web Crawling, StyleGAN, Computer Vision, Data Intervention.

Taipei-Topia — 2021

AI-constructed cityscapes exploring spatial dislocation and computational urban memory.
- GAN Training, Point-cloud Mapping, VR, Dataset Curation, Image Enhancing.

Relation Test: Saliva and Material Experiment — 2020

Material experiment visualizing connection through biochemical conductivity.
- Enzymatic Reaction Testing, Prototyping, Speculative Design.

Dear Diary — 2019

Machine-authored spatial diary converting physical objects into symbolic writing.
- Object Recognition, Web Scraping, Robotic Writing System.

EXHIBITIONS

11th Asia-Europe Mediations Biennale	Krakow, Poland / Hannover, Germany	2025.06
Always on – Net Art Exhibition	Hsinchu, Taiwan	2023.07
National Art Exhibition R.O.C.	Taichung, Taiwan	2022.07
Taipei Digital Art Festival – Borderless Shelter	Taipei, Taiwan	2021.12
Taoyuan Fine Arts Exhibition	Taoyuan, Taiwan	2021.10
Athens Digital Arts Festival – TACTUS	Athens, Greek	2021.10
Control Center	Umay Theater, Taipei, Taiwan	2021.08
Arche' – Architecture of Universe	GAD Giudecca Art District, Venice, Italy	2021.06
MOCA Taipei – Chrono Contemporary	Taipei, Taiwan	2021.05
Digital Authoritarianism	Umay Theater, Taipei, Taiwan	2020.11
Microwave International New Media Arts Festival	Hong Kong, China	2020.10
Ars Electronica Festival – In Kepler's Gardens	A global journey, Taiwan	2020.09
Athens Digital Arts Festival – The World is a Hologram	Athens, Greece	2019.11
Nuit Blanche Taipei	Taipei, Taiwan	2019.08
14th Knowledge Taiwan Creativity Award	Taipei, Taiwan	2019.10
International Exhibition of Electronic Art SYNTOPIA	Athens, Greece	2019.09
Tsing Hua Effects – IoT Technology and Art Festival	Hsinchu, Taiwan	2019.05
Tsing Hua Effects – IoT Technology and Art Festival	Hsinchu, Taiwan	2018.05
Mirrored Me	Danshui, Taiwan	2018.05

RESEARCH SUMMARY

My research advances **Reflective Intelligence** as a new paradigm for human–AI interaction:

Ontology — What Technology Is *Understanding computational systems as material–affective ecologies that reconfigure culture, emotion, and meaning from within.*

Phenomenology — How Technology Appears *Mapping the sensory and symbolic imprints of algorithmic rhythms—how they shape attention, imagination, and inner life.*

Praxis — How We Act / Intervene *Designing reflective AI systems that function as partners in emotional grounding, symbolic insight, and relational attunement.*

SKILLS

Programming Languages: Python, C, C++, JavaScript.

Machine Learning & AI: PyTorch, TensorFlow, OpenCV.

Robotics & Embedded Systems: Arduino, Raspberry Pi, Haptic Interfaces.

Creative Coding & Computational Media: Unity, p5.js, Processing, Blender.

Networked & Systems Development: Node.js, WebSocket.

Operating Systems & Infrastructure: Linux, Shell Scripting, Git.

Languages: Chinese (native), English.