Jan Zuiderveld

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I am a researcher, engineer and artist with an academic background counting degrees in Physics, Electrical Engineering, Neuropsychology, Artificial Intelligence and ArtScience. My professional history includes leading a machine learning team specializing in speech-to-intent systems and extended hands-on experience as both a researcher and an engineer in the field of generative AI.

SELECTED EXPERIENCE

Independent Artist & Researcher   November 2019 – Present
Warana   *Amsterdam, NL*

- In my artistic practice, I embody AI systems in familiar objects, transforming coffee machines, photocopiers, and vintage electronics into entities with distinct personalities. These minimalist installations invite physical, emotional encounters with ordinarily abstract technologies. By blurring boundaries between animate and inanimate, I create participatory experiences where the technological becomes personal and the algorithmic tangible, provoking critical reflection on our evolving relationship with artificial systems.
- I conduct and openly publish independent research in the field of generative AI, e.g. "Style-Content Disentanglement in Language-Image Pretraining Representations for Zero-Shot Sketch-to-Image Synthesis".

Guest Lecturer   September 2023 – December 2023
Royal Conservatoire & Royal Academy of Art   *The Hague, NL*

- As a guest lecturer at the ArtScience Interfaculty, I was invited to share my expertise in the field of large language models (LLMs) for the course "Introduction to Large Language Models" part of "Bootstrapping Computational Arts". My role involved delivering engaging and informative lectures to students, focusing on the fundamentals, applications, and implications of LLMs in various domains.

Head of Machine Learning   February 2019 – July 2022
QV Technologies   *Amsterdam, NL*

- Nominated for the Horecava Innovation Award 2020.
- Participated in the Demonstrator Lab Incubation program at Vrije Universiteit Amsterdam.

Machine Learning Researcher   January 2021 – September 2021
Amsterdam Machine Learning Lab (AMLab)   *Amsterdam, NL*

- Amsterdam Machine Learning Lab (AMLab) conducts research in the area of large scale modelling of complex data sources, directed by M. Welling.

Teaching Assistant   November 2020 – January 2021
University of Amsterdam   *Amsterdam, NL*

- For the Deep Learning course within the UvA's MSc Artificial Intelligence program, I facilitated students' learning and comprehension of advanced deep learning concepts and techniques through seminars.

SELECTED EDUCATION

MMus - Master of Music, ArtScience   September 2021 – July 2023
Royal Conservatoire The Hague & Royal Academy of Art

- Thesis: **Unraveling Artificial Creativity - Exploring the Creative Potential of Large Language Models**

MSc - Master of Science, Artificial Intelligence   September 2018 – July 2021
University of Amsterdam (Cum Laude)

- Thesis: **Representing Audio in a Distribution of Continuous Functions**
- Prestigious Research Master with a strong focus on the theoretical aspects of machine learning and information theory. Ranked 1st in the Netherlands and top 10 in Europe among Artificial Intelligence departments by QS.

SELECTED AWARDS

Creative Industries Fund - Talent Development Grant (2025)

Prix Ars Electronica, Interactive Art +, Honorary Mention (2024)

iii Research Residency Award (2023)

Oral Presentation at NeurIPS, Deep Generative Models and Downstream Applications (2021)

Selected Exhibitions

Life on _ and Coffee Machine *FACT's Spring 2026 exhibition programme* FACT (Liverpool, UK)	2026
Coffee Machine *Digital is Forever* KUMU Art Museum (Tallinn, EE)	2026
Coffee Machine *New Food* Deutsches Museum Nürnberg (Nürnberg, DE)	2025
Copy Machine / Dream Machine *Artificial vs. Intelligence* The Media Majlis at Northwestern University in Qatar (Doha, QA)	2025
Coffee Machine *Flux Festival* Audrey Irmas Pavilion (Los Angeles, US)	2024
Life on SIGN / Camera + Theater *Respirare* SIGN (Groningen, NL)	2024
Conversations Beyond the Ordinary (Coffee Machine, Copy Machine & Microwave) *Prix Ars Electronica Exhibition* Lentos Museum (Linz, AT)	2024
Coffee Machine *Dutch, More or Less. Contemporary Architecture, Design and Digital* Culture Het Nieuwe Instituut (Rotterdam, NL)	2024-2026
Coffee Machine & Copy Machine *Het Einde* De School (Amsterdam, NL)	2024

Selected Presentations / Courses

Keynote "Perceiving Aliveness in Embodied AI" AI in art Practices and Research Conference, UNATC (Bucharest, RO)	2025
Artificial Physical Intelligence Artificial Intelligence and Digital Art Lab, ShanghaiTech University (Shanghai, CN)	2025
Guest Lecture for Networked Materiality Akademie der Bildenden Künste Nürnberg (Nürnberg, DE)	2025
Guest Lecture for HSLU's Digital Ideation Class Hochschule Luzern (Lucerne, CH)	2025
Artificial Physical Intelligence TU Delft (Delft, NL)	2024
Guest Lecture for Jesse Damiani's class *Art in Postreality* USC Cinematic Arts (Los Angeles, US)	2024
Artificial Physical Intelligence Ars Electronica (Linz, AT)	2024
Seminar on Neural Network Composability UNI_VERSE STUDIO (Amsterdam, NL)	2024
Jan Zuiderveld, Coffee Machine and Microwave [Mini Documentary for iii's Research Residency Award]()	2023
Introduction to Large Language Models, Course for ArtScience Interfaculty Royal Academy of Art & Royal Conservatoire (The Hague, NL)	2023
Artificial Intelligence - Beyond the Doomsday Scenarios, Back to Reality Dutch Design Week for Waag Futurelab (Eindhoven, NL)	2023
Towards Lightweight Controllable Audio Synthesis NeurIPS (Vancouver, CA)	2021

SELECTED PUBLICATIONS

Style-Content Disentanglement in Language-Image Pretraining Representations for Zero-Shot Sketch-to-Image Synthesis.
J. Zuiderveld

Towards Lightweight Controllable Audio Synthesis using Conditional Implicit Neural Representations.
J. Zuiderveld, M. Federici, E. J. Bekkers