

MohammadHossein Askari Hezaveh

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[GitHub](#) | [Portfolio](#)

Education

MA in Computational Arts

Distinction

Goldsmiths, University of London
2023–2024

Thesis: "Exploring Socio-Cultural Behaviours and Language Evolution in AI"

Supervisor: Dr. Mattia Paganelli

BSc in Architectural Engineering

Final Grade: 15.57/20

Tehran Azad University
2016–2021

Research Experience

Master's Thesis Research

Goldsmiths, University of London

2023–2024

- Designed and implemented multi-agent reinforcement learning system studying emergent communication between AI agents
- Developed AI-based evaluators analyzing emergent communication protocols and agent dialogue patterns
- Applied geometric and information-theoretic analysis to spontaneous narrative structuring under minimal constraints
- Published findings: "*Emergence of High-Dimensional Communication Protocols in Multi-Agent Systems*" (preprint)

Research Collaborator, Yaya Labs

London, 2024

- Designed multi-agent communication system using AI avatars trained on complex linguistic data (hate speech datasets)
- Investigated effects of platform moderation pressures on agent communication strategies
- Analyzed emergent narrative patterns in live, dynamic environments
- Discovered and addressed cultural bias in hate speech training corpora

Professional Experience

AI and Data Science Technician

Asan Darman Homecare, Tehran

2020–2022

- Designed AI-driven predictive models for patient risk assessment enabling dynamic resource allocation
- Developed machine learning pipeline integrating patient and staff data forecasting healthcare demands
- Applied NLP techniques to caregiver feedback analysis, refining risk evaluation processes

Publications & Presentations

Preprints

Askari, H. (2025). *SM-MCPM: State-Modulated Monte Carlo Physarum Machine*.

[DOI: 10.13140/RG.2.2.13933.24803](https://doi.org/10.13140/RG.2.2.13933.24803)

Askari, H. (2024). *Emergence of High-Dimensional Communication Protocols in Multi-Agent Systems*.

[DOI: 10.13140/RG.2.2.27043.72489](https://doi.org/10.13140/RG.2.2.27043.72489)

Exhibition & Workshop

"*There's a Party in My Room and I'm Not Invited.*" IEEE ICME 2025 (accepted). Installation and workshop presentation exploring AI dialogue exclusion and emergent communication.

Artistic Practice & Exhibitions

Selected Works:

- "Interlingua" (2024) – Multi-agent reinforcement learning installation exploring emergent AI language beyond human comprehension
- "There is a Party in My Room" (2024) – AI dialogue installation examining exclusion from machine communication
- "Sorry Machines" (2024) – Investigation of platform moderation bias using hate speech datasets
- "Meat Grinder" (2023) – Exploration of algorithmic bias in sexual content representation
- "Biosonic Resonance" (2023) – Real-time biometric data integration with point cloud physics
- "Embodying Nothingness" (2023) – LIDAR-scanned childhood home translated into VR environment

Technical Skills

Programming Languages: Python (TensorFlow, PyTorch, scikit-learn), C++ (OpenFrameworks), C# (Unity), JavaScript (p5.js, Processing)

Machine Learning & AI: Multi-agent reinforcement learning (MARL), natural language processing, computer vision, deep learning, generative AI

Development Tools: Unity (VR/game development, compute shaders), Blender (3D modeling), Git (version control)

Data Science: Pandas, NumPy, Matplotlib, SQL, web scraping, large-scale corpus building, social media data mining

Hardware Integration: Biometric sensors (EmotiBit), VR development (Quest, Valve Index), IoT systems, LIDAR scanning

Research Methods: Multi-agent system design, high-dimensional data analysis, information theory, geometric analysis of communication protocols, practice-led artistic research

Professional Memberships

Multi-Agent Systems Group, The Alan Turing Institute
Association d'Intelligence Artificielle France-Chine (AIFC)

References

Dr. Mattia Paganelli

Lecturer in Computational Arts
Goldsmiths, University of London
Email: m.paganelli@gold.ac.uk

[Goldsmiths profile](#)

Primary MA supervisor. Expertise: computational complexity, emergence, non-linear systems, contemporary philosophy and art.

Jérémie Wenger

Lecturer in Computational Arts
Goldsmiths, University of London
Email: j.wenger@gold.ac.uk
Website: jeremiewenger.com

MA thesis advisor. Expertise: literature and AI, poetic approaches to computational arts, creative AI applications.

Ben Ditto

Creative Director, Yaya Labs
Email: info@ditto-nation.com
Website: www.yayalabs.io

Research collaborator. Expertise: AI bias investigation, algorithmic racism, cultural stereotypes in machine learning, creative technology.