

ANGELA FRAGKOU_CURRICULUM VITAE

Short Bio:

Angela Fragkou is a Greek new media artist, researcher and bioscientist with a background in organic chemistry and visual arts. Her practice moves between art and science, combining biosciences, digital technologies, ecological materiality and experimental processes to investigate materiality, perception and the relations between humans, living systems and their environments. Her work draws on scientific methodologies, real data and invented parameters, transforming scientific processes into artistic systems, images and immersive experiences. Recent research explores structural colour, bio-derived materials, bacterial colonies, light, time, observation and new materialities. Her work has been presented at the International Forum on Artistic Research at the University of Galway, the Athens Digital Arts Festival, ARTENS Festival, Performing Space Symposium, Onassis Stegi Foundation, Athens School of Fine Arts and the National and Kapodistrian University of Athens, and through international interdisciplinary research programmes and publications, includes Nida Art Colony at the Vilnius Academy of Arts, Arteles Creative Center in Finland, and the Erasmus+ programme at Merz Akademie in Stuttgart. She is currently developing artistic research around ecological materiality, living systems and observer-dependent phenomena.

Education:

2019-2023 Degree: **PhD** in New Media (Bio) Art, Athens School of Fine Arts, Athens, Greece

Title of thesis: Artistic research on the correlation between visual arts and biosciences: a comparative study and research on elements (or structures) of bio sciences in the creation of works of art (bio-art): an approach of interconnection via the experimental process of chemical synthesis of dendrimer molecules, utilizing digital representation

2017-2022 Degree: **Integrated Master in Arts**, Athens School of Fine Arts, Athens, Greece

2012-2014 Degree: **MSc in Organic Chemistry**, University of Copenhagen, Copenhagen, Denmark

2010-2012 Degree: **Master of Education in New Educational Technologies**, National and Kapodistrian University of Athens, Athens, Greece

2005-2010 Degree: **BSc in Chemistry**, Aristotle University of Thessaloniki, Thessaloniki, Greece

Positions Held:

2025- Freelance artist & researcher

2025- Permanent Art Educator, (Primary Education / Post-secondary / Vocational Education)

Ministry of Education, Greece

Parallel engagement with academic research and higher education teaching

2023-2025 Substitute Art Educator, Ministry of Education, Greece

2022 Lecturer, Onassis Stegi Foundation Hackathon, Art & Science: Innovative Biomaterials in Art

2022 Lecturer & exhibiting artist, Department of Pharmacy, National and Kapodistrian University of Athens

2020-2021 Researcher & Curator, 3D BioArt Hub, Athens School of Fine Arts

2020-2021 Teaching Assistant, 3D Printing Computer Lab, Athens School of Fine Arts

2006-2011 Research Fellow, Interdisciplinary Chemistry Education Research Projects, Aristotle University of Thessaloniki

Honours and Awards:

2026 Selected artist, Back to Basics, Arteles Creative Center, Finland

2022-2023 IKY PhD Scholarship, State Scholarship Foundation, Greece

2021 Invited member, Studiotopia, Onassis Foundation

2020-2021 Curator, researcher and artist, 3D BioArt Hub, Athens School of Fine Arts / iGEM Athens

Scholarships / Residencies / International Programmes:

2027 Ars Bioarctica Residency, Bioart Society, Kilpisjärvi, Finland

2026 Back to Basics Residency, Arteles Creative Center, Haukijärvi, Finland

2023 Erasmus+ Blended Intensive Programme, For a new art academy...for a new Europe! Reforming art and design education as a political and existential imperative, Merz Akademie Stuttgart / Athens School of Fine Arts / Vilnius Academy of Arts / University of the Arts Bremen

2023 Nida Art Colony (NAC), Vilnius Academy of Arts — Creator Doctus gathering, participant & lecturer

2023 Erasmus+ Blended Intensive Programme, For a new art academy...for a new Europe! Reforming art and design education as a political and existential imperative, Merz Akademie, Stuttgart, in collaboration with Athens School of Fine Arts, Vilnius Academy of Arts and University of the Arts Bremen.

2022 Erasmus+ Mobility Training, Smart Hybrid Forms: Can an AI be a plant?, Gerrit Rietveld Academie, Amsterdam, Netherlands

2020 Studiotopia, Onassis Foundation - invited member

Selected Projects:

2026- Colour in Flux

Experimental art-science project investigating colour as an unstable, time-dependent material.

2026- Sea Light Arc – Kythera

Artistic research on light, time, surface and observation through repeated observations of solar reflections on the sea from fixed viewpoints across Kythera.

2026 Sea Light Arc – Karkuu

Development of the Sea Light Arc research during the Arteles Creative Center residency, Finland.

2026 Walking Maps Through VR Bacterial Colonies

Interactive VR bio-art project exploring bacterial colonies, embodied mapping, generative processes and immersive environments. Technical support: Thanos Makris.

2020- A Colourless Colour

Artistic research on structural colour, living matter and bio-derived materials, developed through the ASFA Computer Sculpture Lab and experimental 3D Biohub.

2020-2021 3D BioArt Hub

Interdisciplinary artistic research connecting 3D printing, biotechnology, genetics and contemporary art, developed through the ASFA Computer Sculpture Lab and iGEM Athens.

2022 Innovative Biomaterials in Arts

Art-science research on biomaterials, liposomes and the liquid-crystal states of biomolecules.

2022 Smart Hybrid Forms: Can an AI be a plant?

Artistic research developed through Erasmus+ mobility training at Gerrit Rietveld Academie.

Selected Presentations / Exhibitions:

2026 A Colourless Colour, 17th International Forum on Artistic Research (SAR), University of Galway, Ireland

2026 Witnessing as Spatial Practice: Sea Light Arc – Kythera and the Limits of Observation, Performing Space Symposium, Nafplio, Greece

2026 Walking Maps Through VR Bacterial Colonies, Athens Digital Arts Festival (ADAF) 2026 | METAMORPHOSIS, Athens, Greece

2025 Walking Maps Through Bacterial Colonies, ARTENS Festival, Athens, Greece

2023 Walking Maps Through VR Bacterial Colonies, 5th International Conference of Digital Culture & Audiovisual Challenges, Corfu / Online, Greece

2023 Light Diffraction in Public Sphere, video-based artistic research on liquid crystals and light diffraction, Pop-up Exhibition, For a new art academy...for a new Europe!, Merz Akademie, Stuttgart, Germany

2022 Art and Beauty at Nanoscale, National and Kapodistrian University of Athens, Athens, Greece

2022 Innovative Biomaterials in Arts, Department of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece
2022 A Correlation of Art & Science, Innovative Biomaterials in Art, Onassis Stegi Foundation, Athens, Greece
2021 3D Biohub, Days of Arts in Greece
2021 Platform Projects / ASFA 3D Studio, Athens, Greece
2021 Open Studios, Athens School of Fine Arts, Athens, Greece
2020 An Interaction Between Biotechnology and Visual Arts, Athens School of Fine Arts, Athens, Greece
2019 Impact of Science on Contemporary Art, Athens School of Fine Arts, Athens, Greece

Selected Publications:

2026 Fragkou, A. Walking Maps Through VR Bacterial Colonies. Superpresent, Summer 2026, MAPPING issue.
2025 Fragkou, A. Re-Imagine the Behavior of Living Matter: The Colorless Color and an Artificial Nano-Structure in Contemporary Art. Arts and Social Sciences Journal, 16(2), 651.
2023 Fragkou, A. Artificial Intelligence in the Construction of a Cyborg-Plant in Contemporary Art. Literary Society of Parnassos, Athens, Greece.
2021 Fragkou, A. An Experimental 3D Biohub as an Interdisciplinary Workshop of the Computer Sculpture Lab, ASFA. Art with New Bio Materials. Days of Arts in Greece, pp. 36–43.
2011 Kozaris, I., Varella, E., Fragkou, A. & Koliarmou, E. Developing Electronic Tests for Interdisciplinary Studies: The Case of Conservation Science. ICERI2011 Proceedings, pp. 5815–5823.

Academic Activity / Peer Review:

2023 Reviewer, Pretty Pictures: Positioning Aesthetic Value in Microscopy. Technoetic Arts.
2021 Reviewer, Ever it Takes: On Interspecies Embryonic Care through Semipermeability. Technoetic Arts.
2020 View from Nowhere: An Investigation on How Physics Can Inform and Inspire the Practice of Art, CERN
2020 An Interaction Between Biotechnology and Visual Arts, ASFA Computer Sculpture Lab

Selected Research Programmes / Workshops:

2023 Erasmus+ Blended Intensive Programme, For a new art academy...for a new Europe!, Hydra / Athens School of Fine Arts
2023 Erasmus+ Blended Intensive Programme, For a new art academy...for a new Europe!, Athens School of Fine Arts / Merz Akademie, Stuttgart / Vilnius Academy of Arts / University of the Arts Bremen

2022 Innovative Biomaterials in Arts, Department of Pharmaceutical Nanotechnology, National and Kapodistrian University of Athens — laboratory artistic research on liposomes in BioArt
2021 3D BioArt Hub, ASFA Computer Sculpture Lab / iGEM Athens
2021 Art Technology Research for Humanities
2021 Platform Projects NET / Open Studio, ASFA 3D Studio
2021 Open Studios, Athens School of Fine Arts
2020 Studiopia, Onassis Foundation
2020 ASFA Computer Sculpture Lab / experimental 3D Biohub
2019 Delphi Know Thyself, Erasmus+ programme

Scientific Background:

Organic Chemistry & Organic Synthesis

Advanced organic chemistry, chemical synthesis, formulation mechanisms and reactions

Nanotechnology & Nanomedicine

Dendrimer-substituted phthalocyanine nanoparticles, naphthalene-based derivatives and polymer nanoparticles

Biotechnology & Biomaterials

Bio-derived materials, bacterial systems, biomaterials, liposomes and biological structures

Artificial ageing of polystyrene colour substances,

Analytical Chemistry

NMR · GC · MALDI-MS · UV–Vis · Fluorimetry · IR · Raman spectroscopy · m-FTIR

Protein Structure & Function

Conservation Science

Chemical analysis, accelerated ageing, colour measurement and interdisciplinary research

Chemistry Education & STEAM Education

Research Interests:

BioArt · Art & Science · New Media Art · New Materiality · Ecological Materiality · Living Systems · Bacterial Colonies · Structural Colour · Bio-derived Materials · Biomaterials · Light & Time · Observation & Witnessing · Digital Modelling · Virtual Reality · Generative Art · Immersive Environments · Scientific Methodologies · Experimental Artistic Research

Selected Scientific Research:

2012–2014 MSc Research, University of Copenhagen

Synthesis of dendrimer substituted phthalocyanine nanoparticles as potential therapeutic agents & Synthesis of Naphthalene-Based Derivatives as Surfactants of Polystyrene nanoparticles

Supervisor: Prof. Jørn Bolstad Christensen

2010–2011 Research Fellow, Interdisciplinary Chemistry Education Research Projects, Aristotle University of Thessaloniki

2008–2010 Research projects in Conservation Science, Chemistry Education and Distance Education

2007–2011 Member, Prof. Evangelia A. Varella Research Group

2006–2011 Interdisciplinary Chemistry Education Research Projects, Aristotle University of Thessaloniki

Selected Earlier Academic Activity:

2011 ICERI2011, Madrid — Developing Electronic Tests for Interdisciplinary Studies: The Case of Conservation Science

2011 ECTN 5th Intensive School on Conservation Science, University of Istanbul

2010 Organizing Master Department in Conservation Science, University of Fez, Morocco

2009 Research and Education of Chemistry, academic conference, Aristotle University of Thessaloniki

2009 3rd Residential Summer School in Conservation Science, Thessaloniki, Greece — organizer / instructor

2008 2nd Residential Summer School Chemistry and Conservation Science, Palermo, Italy — organizer / instructor

2007 European Chemistry Exchange Network, University del Pais Vasco, Spain

2006 Residential Summer School, Conservation Science / Chemistry and Cultural Heritage, Aristotle University of Thessaloniki

Selected Workshops / Artistic Programmes

2022 Smart Hybrid Forms: Can an AI be a plant?, Gerrit Rietveld Academie, Amsterdam

2021 Platform Projects NET / ASFA 3D Studio

2021 Open Studios, Athens School of Fine Arts

2020 ASFA Computer Sculpture Lab

2019 Delphi Know Thyself, Erasmus+ Programme

2018 Hydra Painting Workshop, Athens School of Fine Arts

2018 Delphi Painting Workshop, Athens School of Fine Arts