

Curriculum Vitae

Athanasios Vagias

architect SAR/MSA

Architecture and Urban Design is, for me, a combination of science, technology, and art. For more than seven years, my focus has been large scale housing, industrial and office projects in Sweden, from early sketches to construction documents. I had the chance to apply Space Syntax tools in *Växthustomten's* land nomination competition, now being in a "Detaljplan" approval process. In *European 17* competition in Skavsta Sweden, I contributed to the *Sweet Spot* proposal of a car free, vibrant business center, designed as a multispecies community of opportunities, resulting in third price nomination (special mention). My interest in technology led me to seek specialisation in computation for architecture and design, focusing on environmental analysis, urban AI and machine learning. While actively contributing to *Liljewall's* development, I am also engaged in various professional and cultural activities outside work, including martial arts, playing the piano, choir singing and ceramics.

Architecture for a balanced symbiosis between people and nature

MERITS

Working experience

2018 - today
summer 2017
2017 - 2018
2013 -2017
(part time)
2012

Liljewall Arkitekter, architect SAR/MSA
Dress for the Weather, Glasgow, Scotland, internship
Liljewall, internship
Aerial design and build, USA, New York
on site project manager trainee – residential and commercial properties in Manhattan.
Remote illustrator for interior architecture projects
51N4E, Brussels, Belgium, internship
– materials and color study through physical models in scale 1:20 för elderly home project:"Grootkapel"

Education

2023 - 2024
2010 - 2017
2012 - 2013

Institute for Advanced Architecture of Catalonia (IAAC), Master's in Advanced computation in Architecture and Design - MaCAD, (60 ECTS)
National Technical University of Athens School of Architecture (NTUA)
Diploma in Architectural Engineering - Master's equivalent (300 ECTS)
Université Laval Faculté d'Aménagement, d'Architecture, d'Art et de Design, École d'architecture,
exchange student for two semesters

Freestanding Courses

Spring 2023
Autumn 2022
Spring 2020
Autumn 2019

Elements of AI, University of Helsinki (2ECTS)
Project Manager Education Module 1
Design and Architecture, freestanding course HDK Valand, Gothenburg University (GU), spring 2020 (15ECTS)
Design and the Posthumanist Perspective, freestanding course at HDK Valand (GU), spring 2019 (15ECTS)

Research and innovation

Iannis Xenakis: Architecture and Music: A study and lecture during the final year of architectural studies at the National Technical University of Athens. The research is about the interplay between music and architecture, on both an intellectual and phenomenological level, focusing on Iannis Xenakis - a Greek architect (1922-2001) and avant-garde composer, who experimented with the synthesis between space creation and sound composition. The experience of creation in architecture and music are closely related in structure, time, atmosphere. (2016), marked with "Excellent 10/10"

Petrified Harvest: Urban design research as part of master thesis for NTUA (see selected project and Portfolio document for more drawings and visual representations) marked with "Excellent 10/10"

Technical skills:

Python programming, Javascript, CSS, HTML, Speckle, Rhino, Grasshopper, Revit, Rhino.Inside.Revit, Unreal Engine, QGIS, 3D-modelling, Adobe Illustrator, Adobe InDesign, Adobe Photoshop, ArchiCAD, AutoCAD, Excel, **Driver's license**: passenger car

Workshops/Symposiums

AA Athens Visiting School, "Symmetry Sentience", Athens, Greece, July 2016. Exploration of parametric design methods (e.g. Grasshopper, Arduino) to build interactive biomimic structures using felt as a material.

Advances in Architectural Geometry (AAG), Chalmers University of Technology, Department of Architecture and Civil Engineering, Gothenburg, Sweden, autumn 2018. Exploration of 3d manufacturing of structural nodes workshop.

The City by The Sea: Rethinking the Waterfront of Mersin, Mersin, Turkey, November 2014. An urban design workshop in collaboration between Mersin University Faculty of Architecture, l'Ecole Nationale Supérieure d'Architecture de Paris La Villette, and NTUA. *Bartlett School of Architecture Summer School, London, England (UCL), summer 2011*. Exploring the potential effect of "London's River(s)" and canals on the city scape as the sea level continues to rise.

Languages

Swedish (proficient), English (proficient), French (advanced), Greek (mother tongue)

SELECTION OF PROJECTS

Year / role	About the project
Spring 2024 / Computational student, IAAC	Climate-Responsive Cultural Center in Dresden, Germany <i>MaCAD 23/24 Environmental Analysis & Structural Design</i> A sustainability study to analyze the design form and, the envelope and to optimize its building performance and urban impact, by using indoor and outdoor climate analysis software, such as <i>Ladybug</i> pallet in <i>Grasshopper Rhino</i> , <i>Eddy3d</i> , <i>Buttefly</i> . https://blog.iaac.net/cultural-center-in-dresden-environmental-analysis/
Autumn 2023 / Computational student, IAAC	Port HUB. Multilevel Timber-skeletons... at work* <i>MaCAD 23/24 ACESD Studio</i> , student project Timber Skeleton building designed as a "bridge", a landmark that encourages place making and support the future development of Frihamnen area in Gothenburg. The structure is defined parametrically through <i>Grasshopper</i> to enhance adaptability to context. https://blog.iaac.net/frihamns-navet-port-hub-multilevel-timber-skeletons-at-work/
Spring 2024 / Computational student, IAAC	Ákou <i>MaCAD 23/24 Data Management</i> , student project An acoustic paneling system configuration applied to a given curve. The user-friendly configuration is helping the customer to visualize the effect of the final product on the given surface. Ideally the input is a Rhino file illustrating the contours of the surface to be covered with the Ákou system. Experimentation the "geometry-as-a-service" philosophy. https://blog.iaac.net/akou/

Summer 2023 / Competition team leader and urban designer	Sweet Spot* Special Mention (3 rd price) in <i>European 17 Living Cities</i> , an open competition for young architects (under 40 years old), for the Swedish area of Nyköping – Skavsta: http://european.se/nykoping-skavsta-special-mention/
2023 - present / Architect SAR/MSA	FlagShip One* <i>Ramboll Sverige AB</i> , industrial project Preliminary study, Basic design, Detailed design. Facade concept, office building layout, responsible for communication with client and execution of technical BIM tasks.
2021 – 2022 / Architect SAR/MSA	Ekebäckshöjd, kv Väst* <i>Stena Fastigheter AB</i> , housing project 270 apartments housing project, Preliminary study (design in plan and sections), system design (plans, facade design entrances).
2021 – 2022 / Project manager architect SAR/MSA	Växthustomten Floda* <i>Växthustomten i Floda AB, Kynningsrud Bostäder AB</i> , Urban design project Winning competition proposal, preliminary study for development of 250 housing units on the plot named Växthustomten, in Floda.
2021 / Architect SAR/MSA	Citycon - Stenungsunds Centrum <i>Citycon Development AB</i> , commercial project Renovation of shopping center in Stenungsund. Planer, fasader.
2020 / Architect SAR/MSA	New fire station, Alingsås <i>AB Alingsåshem, Tommy Byggare AB, Alingsås municipality</i> , communal project System design and building permit – sketch proposal of exercising house
2020 - 2021 / Architect SAR/MSA	Terraced houses in Bergsjön <i>Balder, Fastighets AB Balder</i> , housing project System design, plans, elevations, sections
2020 – 2021 / Project administrator architect SAR/MSA	Styrsö Skäret <i>Densify AB</i> , housing project Sketch work and building permit planning of 24 apartments on Styrsö, a beautiful island located in Gothebnerg archipelago. Small-scale development with a sea view gave us good conditions for creating architecture that is "born" by the surroundings.
Summer 2017 / Student project, NTUA	Petrified Harvest* <i>Master thesis project at National Technical University of Athens</i> supervisor: Nelly Marda Rethinking the future of the abandoned green marble mines of Tinos Island, Greece. These quarries can only be found in the northern part of this Tinos, concentrated within a radius of one kilometer. Intense sun, stone and strong winds are the striking elements of the natural environment. (See Portfolio attachment for credits, drawings, and images)

*Please refer to portfolio document for drawings, renderings and more in-depth description.

REFERENCES

Angelos Chronis

Architect, CEO and Co-Founder of Infrared City, MaAI Co-director
/ MaCAD / MaCT / MAA Faculty
Senior Research Engineer at AIT
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