Giovanna Pillaca

Architect & Artist
Researcher, academic and creative

About

Architect and enthusiastic designer, graduated in the 10th percentile of my specialization. I secured funding to design a Virtual Space for 'Telefónica Movistar.' Invited to international exhibitions and publications. I created physical and metaversal experiences, and 3D printing models using artificial intelligence, bioinspiration, and architectures inspired by digital heritage and data of the Peruvian Andes.

Languages

Spanish. Native speaker   **English.** Advance

Educational Background

July 2014
Bachelor of Architecture
School of Architecture and Urbanism, Ricardo Palma University. Design projects between 2009 and 2014 were selected, published, and exhibited in the 'Annual TV-TXV Career Projects Exhibition, Arq. Juvenal Baracco.'

May 2019
Diploma of Study in Digital & Robotics Manufacturing
Digital Manufacturing Room VEO 3D, Pontifical Catholic University of Peru. Outstanding Project: Voronoi kinetic surfaces with sensors and Arduino.

May 2019
Diploma of Study in Digital Manufacture for Industrial Sector
Digital Manufacturing Room VEO 3D, Pontifical Catholic University of Peru. Outstanding Project: Scenography in 3D printing PLA joints and PVC pipes.

Set 2019
Certificate of Achievement
EDU Stratasys Additive Manufacturing Certification by Stratasys Academy. Course on Technologies, Industries, and Applications of Additive Manufacturing, FDM and PolyJet materials, CAD to CAM design considerations.

Nov 2020
Certificate of Completion
VIRTUAL//ENTITIES Intactive Online Workshop, FUTURLY Private Limited. Excellent Final Review in the presentation of 'Akakor' project. Instructors: Mariana Cabugueira, Subin Jameel, Vamsi Vemuri and Arek Keshisian.

Dec 2023
Licensed Architect
School of Architecture and Urbanism, Ricardo Palma University. Marine Landscapes: Macroalgae Research Center in Marcona, Nasca Province, Ica.

2024
Master in Commercial Interior Design Strategies and Interdisciplinary Solutions
University of Sciences and Arts of Latin America (UCAL). Space design and user experience in retail: A review from 2020 to 2024.

Professional experiences

2022 Present
Creative Director of Diffusion Architecture
Online Artificial Intelligence and architectural digital tools Platform
Lead multi media design for commissions, researcher for consultancy, and curator.

2020 Present
Designer and Researcher at Online Lab of Architecture (OLA).
Co-founder, creator of Virtual Architectures. Leads by conceptual projects involving AI, Metaverse, Computational Design, VR, and AR.

2016 Present
Architect Designer at Giovanna Pillaca Studio
Entrepreneur, specializing in Architectural Designs, Archviz and Manufacturing. Key Projects: Expansion (200 m2) and Facade Remodeling to the Dentists College of Lima. ArchViz, 3D Model and Virtual Tour for Sale of 67 Apartments (17 floors) 'Rio Bravo Builders'.

2014 2016
Architectural Internships
Junior Architect at MD & J2 Architects, specializing in Retail & Commercial Design. Developed architectural concepts for new brands, created 2D and 3D presentations for clients. Acted as supervising architect for 4 successful projects in 2 years.

Softwares

2D & 3D Modeling
AutoCAD
Blender
Maya
Zbrush
Rhinoceros 7
Grasshopper

VR & AR
Sketchfab
Unity
Unreal

Graphic design
Adobe PS, AI, PR

Render
keyshot
Lumion
Twinmotion

Manufacturing
3D Printing
CNC

Awards + Honors

2025

Zero-Carbon Futures: An AI-Aided Participatory Design Tool for Embodied Carbon
in La Biennale di Venezia - ARCHITECTURE. Venice. Daniel Escobar, George Guida, Tatjana Crossley, Giovanna Pillaca.

2023

´Data Landscape´ Competition
of Young Architect Competition (YAC). Online Circular by Online Lab of Architecture (OLA): J. Durand, D.Escobar, C. García, G.Pillaca, J. Vintimilla

2021

'Virtual Space' Award and Funding
From Telefonica Movistar Peru Foundation. Peru. 'The power of data: Visualizing the Impact of AI and Social Networks. Online Lab of Architecture (OLA): J. Durand, D.Escobar, C. García, G.Pillaca, J. Vintimilla

2021

Best Project in the Biodigital Design and Architecture Workshop
Lead by David Torreblanca (UPB) & Alberto Estevez (UIC). Design and architecture workshop. 'Sensory Oasis, Urban installation inspired by marine life'.

2020

Double Award and Funding
From American Arts Incubator, U.S. Embassy Lima, UTEC. Peru. Selected Projects: 'The Digital Altarpiece' (1st Edition) and 'Ancestors and Future'.

Academic experiences

2023 2024

Assistant professor in Architectural Representation 3 (Descriptive Geometry)
Pontifical Catholic University of Peru (PUCP). Architectural Drawing Dept. - Arch. Manuel Casiano

2018 2024

Assistant Professor of Architecture Design Studio
University of Sciences and Arts of Latin America (UCAL). Dep. of Sciences and Structures, MArch. Pablo Carbone + Arch. Laurin Leon. Architectural Design - Levels 1, 3, 5, 7, MArch. Luis F. Diaz, Arch. C. Alberto Fernandez.

2021 2022

Instructor in Computational Design
Digital Futures (2022). International Workshop Instructor in computational design with Blender

Suyuypichu (2021) & UNE (2022) Workshops of the International Virtual Festival. Instructor of conceptual projects with AI Generators and Blender.

Inclusive Futures (2021) & One Planet (2022) Digital Futures Festival. Instructor in digital design with Rhinoceros, Zbrush, Blender, and Sansar.

Futurly 10k (2021). Instructor of Maya & Sansar

2015 2018

Assistant Professor of Architecture Design Studio
Ricardo Palma University. Arch. Design Studio, Basic 1 - Arq. Juvenal Baracco | Arq. Laurin León

Lectures

2024

AI IMPACT. 40th Annual FPC Seminar + Expo.
The Intersection of Artificial Intelligence (AI) and Architecture. United States.

2024

Architecture and artificial intelligence, Vol. I.
Pontifical Catholic University of Peru (PUCP), Perú.

2024

The impact of technological advancement.
Museo De Arte De Lima (MALI), Perú.

2024

POST SCRIPTUM* #9.
Pontifical Catholic University of Peru (PUCP), Perú.

2024

'Biodigital Hybrids'
Pontifical Catholic University of Peru (PUCP), Perú

2024

'Digital Altarpiece and Virtual Reality applied to tourism' at MINCETUR Lab 0.1.
Ministerio de Comercio Exterior y Turismo, Perú.

2024

IV International Tourism, Hospitality & Gastronomy Congress (ITHGC): Digital Transformation
San Ignacio de Loyola University, Perú.

2023

New Technologies and AI in Art and Design 2023: Challenges and Opportunities.
Pontifical Catholic University of Peru (PUCP), Perú.

2023

'Artificial memories' in Seminar on Artificial Intelligence in Architecture.
University of Anahuac, México.

2022

Digital Architectures
University of Guadalajara, México.

2022

'The Digital Alterpiece' on New Media Architecture(s), A Speculative Vision of Change in the Arts, Design, & Sciences.
ACM SIGGRAPH, Digital Arts Community, United States.

2022

'The Digital Alterpiece' on PHD Doctoral Consortium 2022 Guest Presentation.
Young Scholar Symposium 'Session 02: AI & Humman-Machine Interaction', China.

2021

Conceptualization and Construction
University of Sciences and Arts of Latin America (UCAL), Perú.

2021

Architecture, New Technologies, and Humans
Peruvian Union University (UPEU), Perú.

2021

'The Power of Data' at Future Fictions.
University of Buenos Aires, Argentina.

2020 2021

'Akakor' in AR/VR/Game Environments
Digital Futures Young 2020. Transpiksel 2021. Red FestiLAB 2020.

2019

Kinetic Installations and New Media
Universidad Peruana de Ciencias Aplicadas (UPC), Perú.

Published Works

2024 **'Convergences of artificial intelligence between the optimal and creative in architecture'**
Published on '*Revista A22*' by the Architecture and Urbanism Faculty of the Pontifical Catholic University of Peru (PUCP)

2023 **'The Digital Altarpiece, el Retablo Digital'**
Presented in march 2023 and published by *CAADRIA* on CUMINCAD.ORG.

2023 **'The digital altarpiece: Restoration of Mortuary Rituals with Deep Learning'**
Published on *Proceedings of the International Conference on Computer-Aided Architectural Design Research in Asia* by CAADRIA.

2023 **'The digital altarpiece: Cultural heritage, biology and new technologies'**
Published on '*Revista Arte y Diseño A&D*' by the Arts and Design Faculty of the Pontifical Catholic University of Peru (PUCP).

2023 **'Seascapes: Macroalgae Research Center in Marcona, Nasca Province, Ica'**
Degree Thesis. Ricardo Palma University. Peru.

2022 **'The Power of Data: Exploring Architectural Language Through the Use of Artificial Intelligence'**
Published on *Archdaily* by Vania Masias in English, Spanish, and Portuguese.

2022 **'The Power of Data' and 'El Retablo Digital'**
Published in '*Constelaciones: Congreso Interdisciplinario de Arte, Ciencia y Tecnología*'. UTEC

2022 **'India Temple, Generated Images with GAN's'**
Published in *AD Magazine, Machine Hallucinations* by Neil Leach and Matias del Campo.

2021 **'Algae Structure Bio-Form Inspired'**
Virtual Project exhibited by Prof. Provides at *CAADRIA 2021*

2020 **'Ancesters and future'**
Published on *Lima 2100: Collective Resilience Through Adaptive Urbanism.*

2018 **'FITECA Projects, Social Experiences between 2016 and 2018'**
International Forum on Urban Interventions (FIIU)

2016 **'FITECA Scenography Project'**
Publisehd on *Arkinka (N°247).*

Artistic Achievements

2025 **'Zero-Carbon Futures: An AI-Aided Participatory Design Tool for Embodied Carbon'**
in La Biennale di Venezia - ARCHITECTURE. Venice. Daniel Escobar, George Guida, Tatjana Crossley, Giovanna Pillaca.

2024 **'El Retablo Digital'**
Pumpumyachay Wasichay. Online. Organized by Ludoteca / Laboratorio de Saberes y Tecnologías.

2023 **'Retablo Digital: Experiencia en VR'**
Día International del Diseño/DIPRAP at the Ccori Wasi Cultural Center.

2023 **'Biodigital Hybrids'**
ABISMAL at Paradero Cultural.

2022 **Projects selected for roundtable discussions at 'Constelaciones'**
Interdisciplinary Congress of Art, Science, and Technology. Organized by HACS-UTEC, the Museum of Contemporary Art, Lima, GAE-PUCP, and Fundación Telefónica Perú

2022 **Exhibition of 'El Retablo Digital' 3D Model**
'In the Light of Women' showcasing women's work in technology. Lima Design Week 2022

2022 **'El Retablo Digital'**
'Women in Art' Showcase. Online. At Hey Hunters.

2022 **Electro-techno Night.**
At Cyberclub.

2021 **Launch and Virtual Exhibition of the 'Power of Data' Project**
www.elpoderdeladata.com by Telefonica Movistar & OLA.research

2021 **Exhibition of 'El Retablo Digital, in VR'**
Myths, Voices, and Fabrics: Building digital identities for the bicentennial of Peru. Presented at the Museum of Contemporary Art's Suyuypichu, Inclusive VR Fest.

2020
2021 **Virtual Exhibition of 'Ancestors and Future'**
AR/VR Projects Exhibition. Transpiksel 2021 (México)
American Arts Incubator Program in Lima. Museum of Contemporary Art, UTEC, U.S. Embassy in Peru

2021 **Akakor Entity.**
At Sansar. *Online.*

2019 **Exhibition: Lima Design Week**
'Summary of Installations and Structures between 2017-2019'. Physical structure with 3D printing and PVC piping at the Ccori Wasi Cultural Center.

Press

2022 **Giovanna Pillaca, architect and teacher: 'We are virtual people; It's not science fiction, it's reality.'**
Interview by Mijail Palacios. Peru21

2022 **'Peruvian architects design VR scenarios with social media data.'**
Interview by Andina.pe

2022 **'The Power of Data, the first virtual tower in Peru.'**
Interview by La Republica & larepublica.pe

2022 **'Inaugurates exhibition of digital art based on social media data.'**
Published in 'El Comercio' Group & elcomercio.pe

2022 **'Peruvian women design immense interactive digital tower with social media data.'**
Published in TEC.com

Interviews

RPP Radio/TV Peru
La Grande Radio/TV. *Trujillo*
National TV Peru
UCI TV. *Lima*
Cablevision TV. *Trujillo*
UPAO TV. *Trujillo*
SOL TV. *Trujillo*
Channel 'La Vocera'. *Ayacucho*
Channel 33 TV. *Ayacucho*
Estacion Wari Radio. *Ayacucho*
Melody Radio. *Ayacucho*
Quispillacta Radio. *Ayacucho*

Extracurricular Activities

2021
Present **Steering Member & International Manager.**
Digital FUTURES
Digital FUTURES Festival
Responsible for Communication and Committee Organization, Co-founder and Coordinator of Talks and Tutorials in Digital FUTURES Spanish

2024
2017 **Workshop instructor**
Suyuypichuvr en Lima. Retablo Digitales workshop.

Ricardo Palma University. Habitaculos | Presentation of Architectural Design Workshop V

2022 **Archimetaverse Pro 2**
Mariana Cabugueira Project: Ayahuasca Meta-Wellness
Participant in a metaverse online course. Team: Mate Asboth, Giovanna Pillaca, Daniela Bedoya

2015
2019 **Architect, Management & Co-founder**
URKO ITINERANTE, an interdisciplinary team
Specializing in Urban Design and Installations for Public Spaces and Cultural Events in Peru.

2015
2019 **Volunteer Project Management**
Multidisciplinary University Research and Service Camp (CUMIS), UNMSM
Management and leadership of a volunteer team for the construction of 5 Urban Facilities and Children's Parks (972 m2) in a rural area.

2014 **Student representative**
First Member of the Faculty Council of Architecture from the Ricardo Palma University
Budget monitoring and coordination for the approval of the council for the start of work on the new Library of the Faculty of Architecture.