



# INSTRMNTS

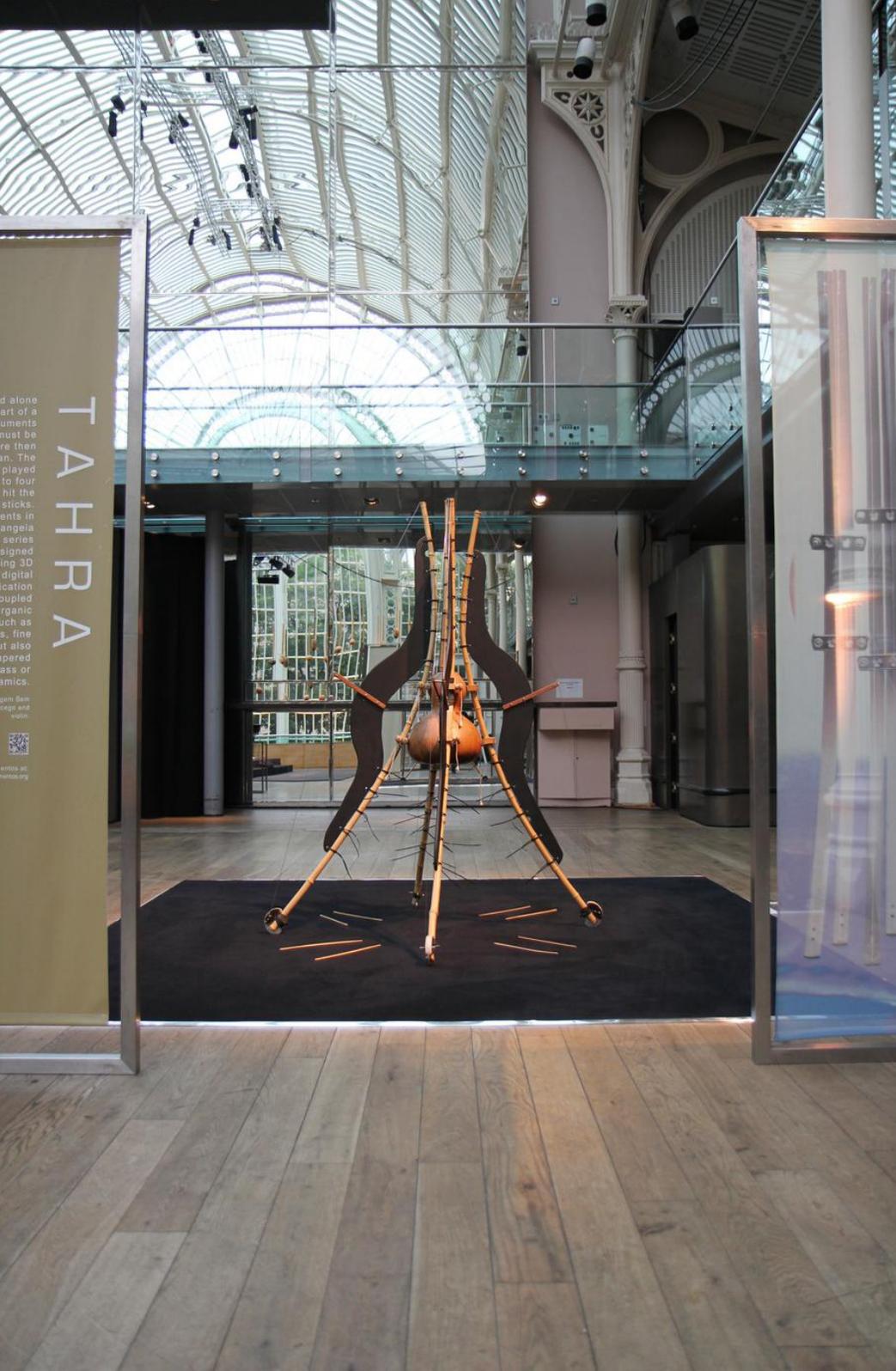
THE INTERACTIVE MUSIC EXPERIENCE

Host Book



an exhibition by

 PangeiArt



# Index

Introduction	3
Exhibition themes	4
Instruments Collection	7
Workshop program	19
Experience options	21
Hosting the exhibition	25
About Pangeiart	26
Contact us	27



# Introduction

Explore, play, and perform together

INSTRMNTS is an exhibition that brings to life innovative musical instruments, sound installations, AV displays, and interactive experiences for a joyful, hands-on adventure.

It invites visitors to explore and play a wide range of custom-built instruments, most designed to be played by several people simultaneously.

Workshops for schools and the general public encourage collaboration, teamwork, and a unique musical dialogue between participants, with instruments and installations that celebrate nature through sound.

# Exhibition Themes

Each instrument tells its own story

Instruments are grouped by themes inspired by their origin stories that shaped their designs.

Visitors follow a path between areas where they can play the instruments on display.

Themes on each area are:

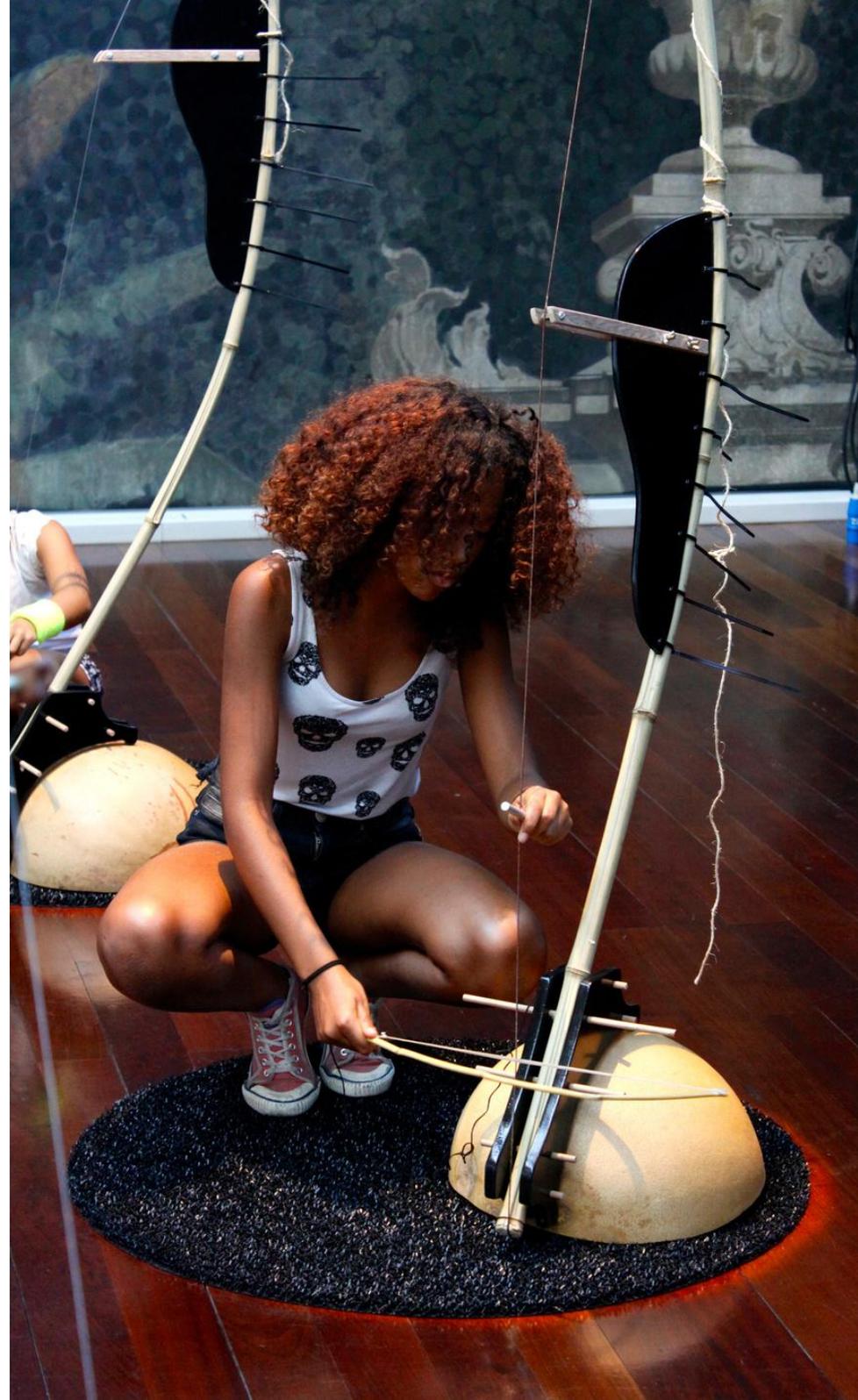
**interstellar and underwater worlds**  
with instruments such the acruX, sturn and epsilon lyrae

**cloud forests**  
tahra, morcego, some lamellophones

**savana animals, birds**  
tipaw, toha, several types of kisanji

**age of dinosaurs**  
dino installation with eight instruments

**game of dialogue**  
dialogue table, uana



**Size:**

The exhibition will cover from 300 sqm to 1000 sqm

**Availability:**

It will be available from summer 2025

**Audiences:**

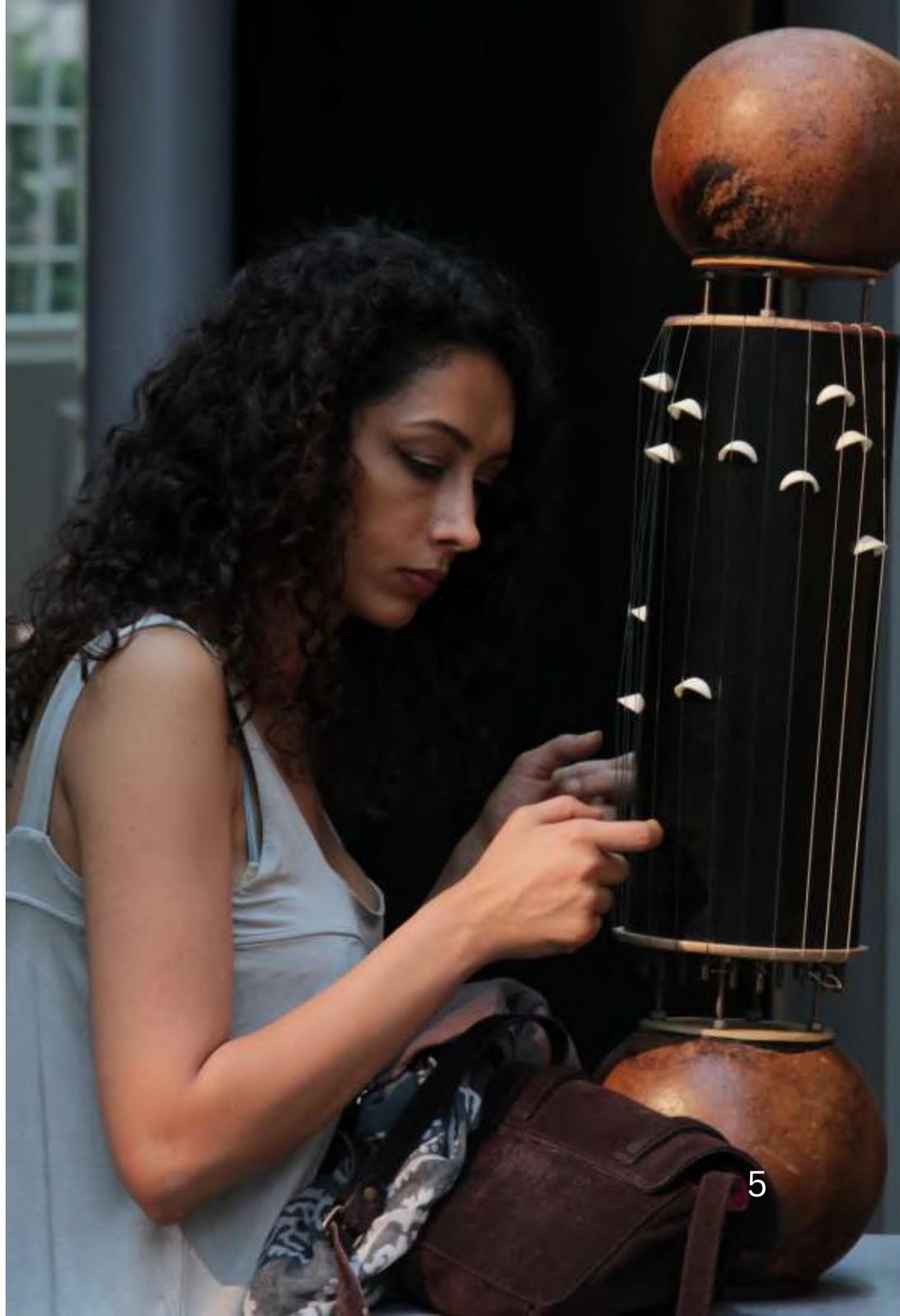
The exhibition is designed to engage with large audiences, and is particularly appealing for children of all ages and families.

**Additional Installations:****Sonic Bioma**

with 18 suspended elements, soundtrack with speakers and projection or large plasma

**GigantikArpz**

(outdoor, park, lake)  
with ten strings that can reach from 25m to 120m each.





We merge digital technologies with the design process to create unique musical instruments.



# Instruments Collection

## TOHA - the nest of sociable weaver birds

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instrument with 44 strings, two cushions, metal structure with touch screen

All our instruments are inspired by the natural world.

Whether through large-scale wall projections or more compact monitor screens, our video imagery brings that world into the exhibition, allowing visitors to interact with forests, deserts, stars and planets, glaciers, icebergs, and even penguin colonies, while playing.

# TIPAW - a tiger in the museum

musical instrument with Indian bowls, metal structure with touch screen



[click image to watch video](#)

AFRIKA MUSEUM, BERG EN DAL  
NETHERLANDS, 2023

# TAHRA - the hidden tarantula

instrument with gourd and four bows, percussion on eight strings



ROYAL OPERA HOUSE, PAUL HAMELYN HALL  
LONDON 2012

## UANA - for four players

instrument with 45 metal lamellae, pentatonic scale with 3 octaves



[click image to watch video](#)

...like the Aclux of  
Epsilon Lyrae, built using geometries  
related to the orbits of planets or  
stars.

Follow this project on twitter at  
[twitter.com/victorgama](https://twitter.com/victorgama)



# STURN - the rings of Saturn

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instrument with stacked circular metal keys



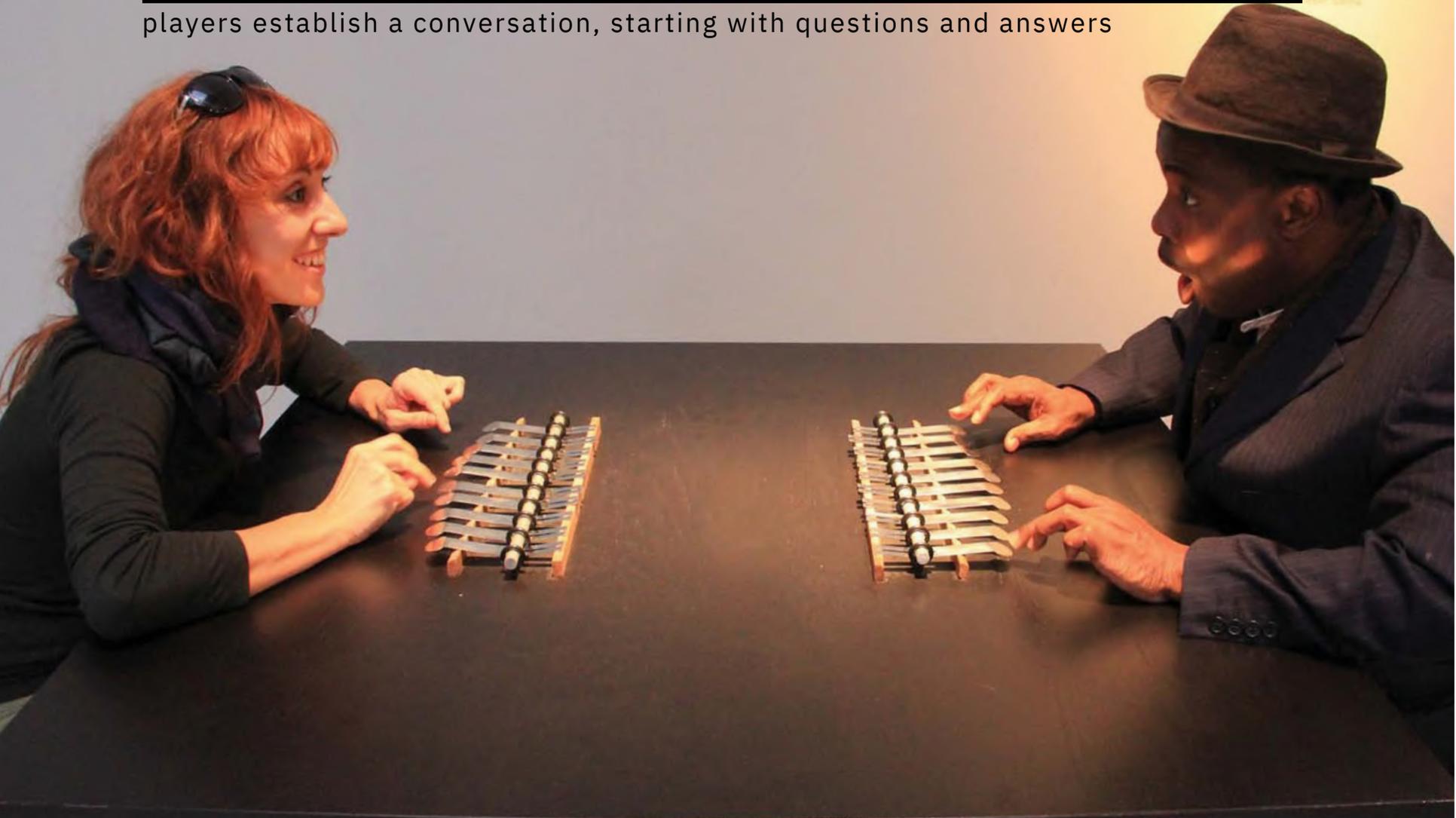
# DINO INSTALLATION - the age of dinosaurs

eight single string instruments, played with friction bows



# THE DIALOGUE TABLE - the game of sharing

players establish a conversation, starting with questions and answers



FUNDACIÓN CARLOS DE AMBERES, MADRID, 2012

[click image to watch video](#)

# ACRUXON installation

Four instruments with active speakers, samplr app running on an iPad  
mixing desk, lighting, metal structure with panel and touch screen.



PHILHARMONIE LUXEMBOURG, 2022  
[click image to watch video](#)

## ACRUX - the Southern Cross constellation

An iPad runs an app with samples to play the virtual acruX.

## GALCRUX - bass acruX



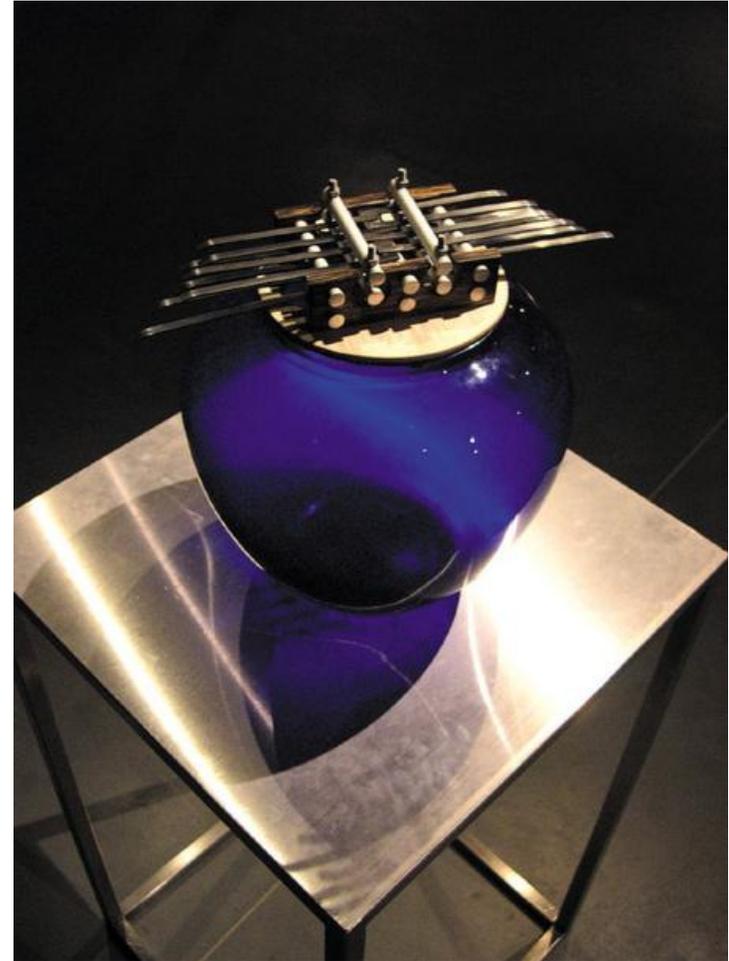
## MORCEGO (BAT)

wearable instrument with four strings  
played with a thin stick on each hand



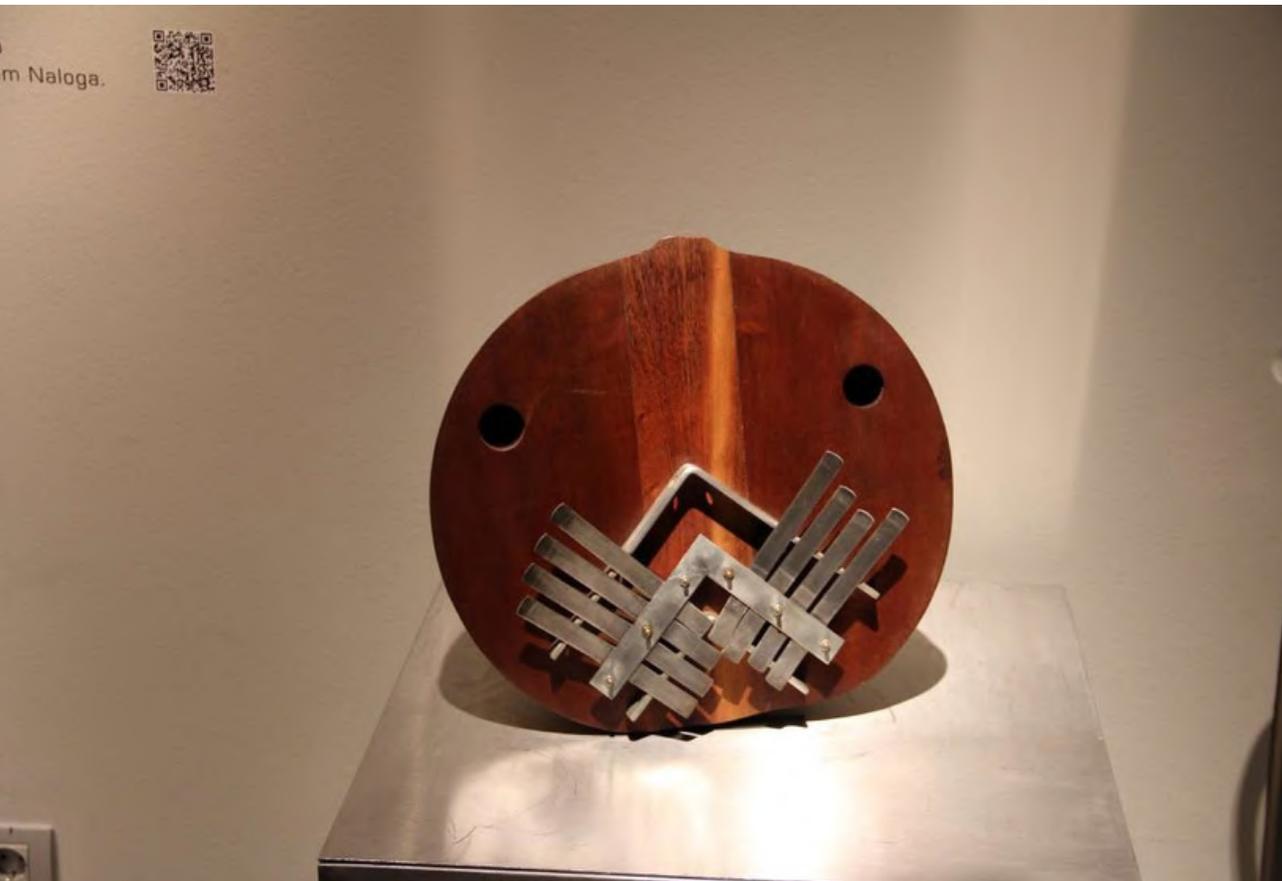
## ZULÃO

lamellophone on a crystal glass jar



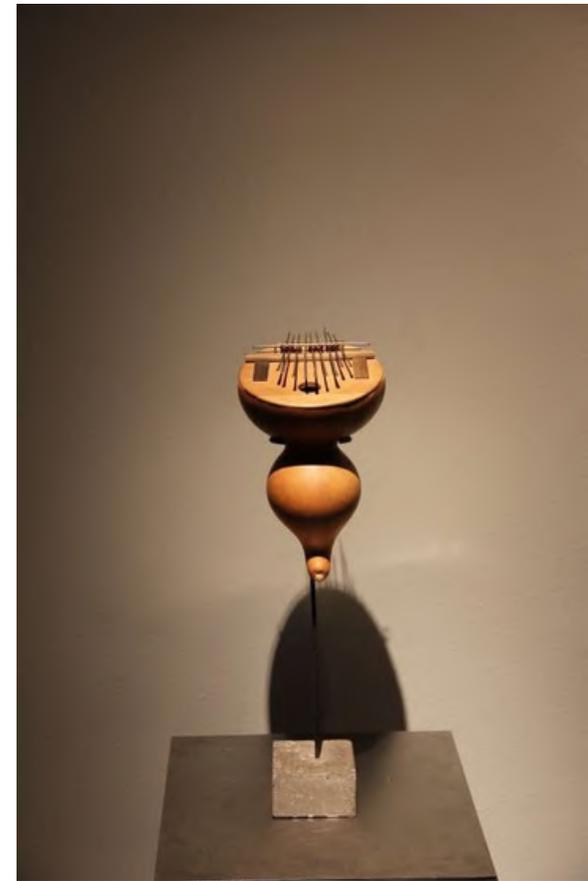
## GUIN

lamellophone with large gourd



## KISANJI KABA

lamellophone with bottle gourd



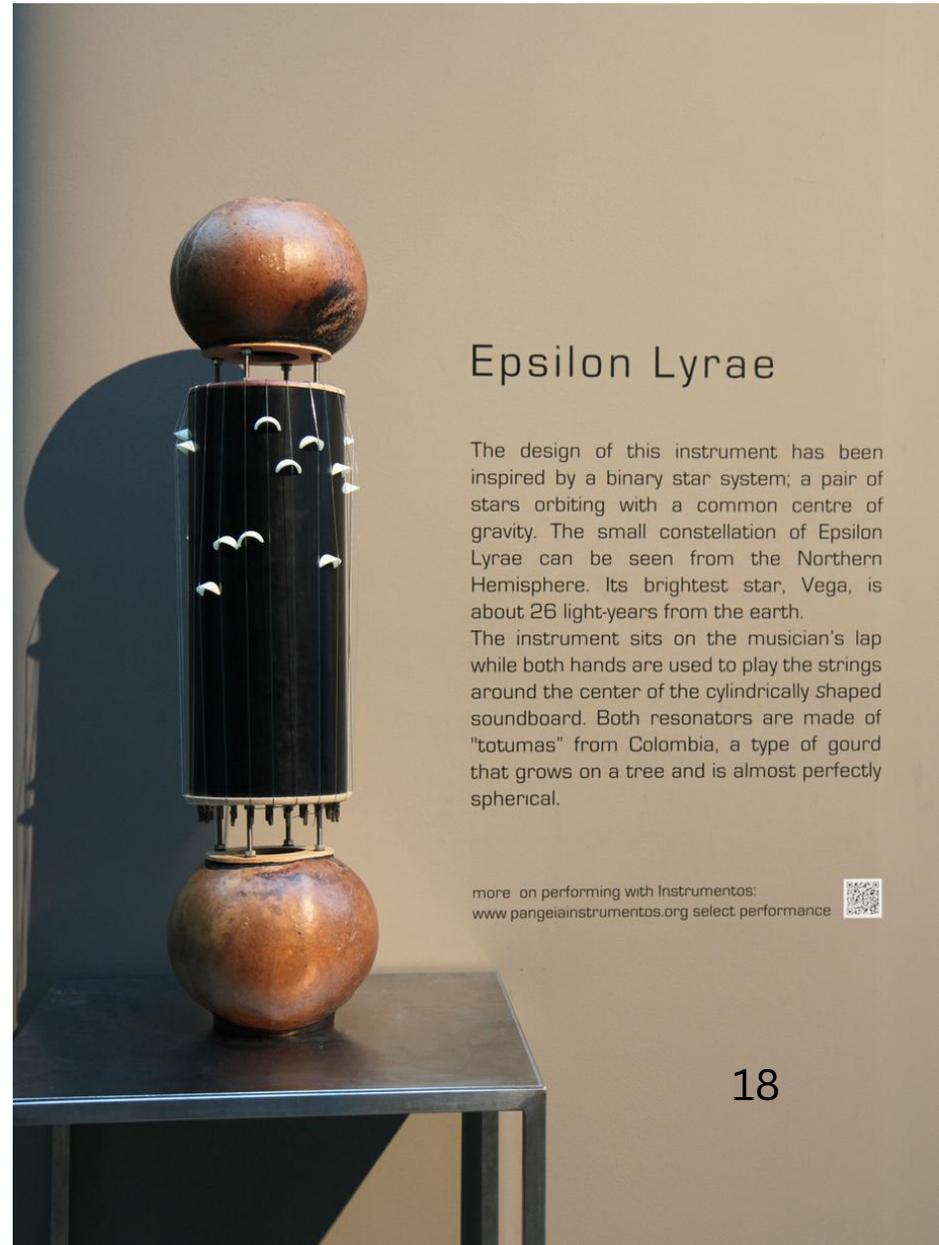
## ESPI

instrument with aluminum keys in a spiral scale



## EPSILON LYRAE

the double star system, two totumas with 3D printed bridges, nylon and metal wound strings



### Epsilon Lyrae

The design of this instrument has been inspired by a binary star system; a pair of stars orbiting with a common centre of gravity. The small constellation of Epsilon Lyrae can be seen from the Northern Hemisphere. Its brightest star, Vega, is about 26 light-years from the earth.

The instrument sits on the musician's lap while both hands are used to play the strings around the center of the cylindrically shaped soundboard. Both resonators are made of "totumas" from Colombia, a type of gourd that grows on a tree and is almost perfectly spherical.

more on performing with Instrumentos:  
[www.pangeiainstrumentos.org](http://www.pangeiainstrumentos.org) select performance



# Workshop Program

The workshop program is at the heart of the instruments exhibition with workshops for all age groups welcoming school groups, families and the visiting public.

**Workshops in the exhibition space** for schools, families and visitors. Engaging music as a communal, improvisational and interaction process through instruments that can be played by several musicians simultaneously.

**Instrument-building** workshops for children aged 6+, where participants build traditional instruments like the txiumba, kisanji, and mukindo, or create new ones. Materials and simple instructions are provided, and each child decorates their instrument to take home.





## Music & Technology Workshop

The Music & Technology workshop explores the process of creating and designing new musical instruments using 3D modeling technologies, digital fabrication and music production starting from a virtual domain and ending in a physical object. After an introduction with demonstrations of the use of 3D modelling tools and analysis

of vibrational and acoustic behavior, participants are invited to design their own instruments in simple sketches that can later be modeled. Concepts, ideas or stories are starting points. The workshop is developed through a constant discussion and visualisation of the various topics covered. For more information download [the program](#).

# Experience Options

Dive into a world of  
creativity with:

Immersive video projections

Live performances that bring  
the instruments to life

Sonic Bioma large hanging  
installation

GigantikArpz  
outdoor installation



# Live Performances

Our instruments come alive in solo or ensemble performances, transforming the gallery or auditorium into a vibrant world of sound and music for all ages.



© José Frade/Teatro S.Luiz

ensemble piece VELA 6911 - A DIARY OF ANTARCTICA

[click image for more information](#)

## GIGANTIKARPZ installation

percussion instrument with 10 long wire strings from 25 up to 120 meters, four sound boxes, suitable for workshops and performances by local percussionists

[click image to watch video](#)

CALOUST GULBENKIAN FOUNDATION  
LISBON 2013

# SONIC BIOMA - sounds of the rain forest

18 suspended elements, gourds, bamboo, nylon strings,  
speakers, sound track, screen



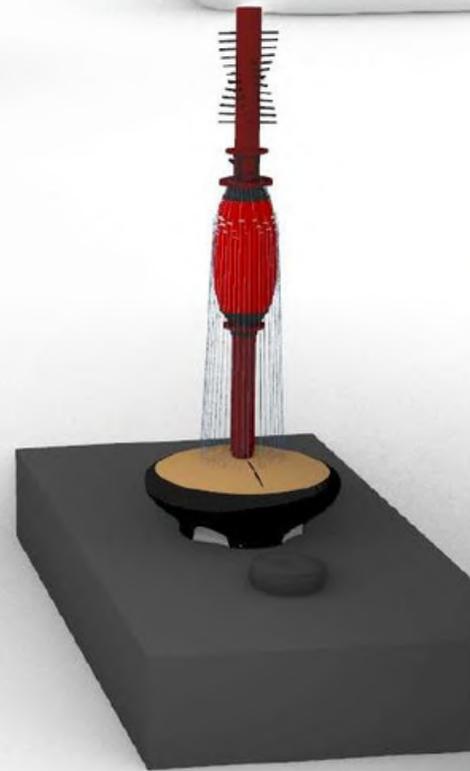
# Hosting INSTRMNTS

We offer an exhibition ready to be shipped in crates with:

- up to 30 original instruments
- museography texts in English with QR codes
- plinths for smaller instruments
- metal structures with iPads showing how instruments are played
- speakers, mixing desk, iPad, lighting for Acruxon installation
- carpets for designated areas
- audiovisual content of exhibition films
- a detailed exhibition manual
- 3D layout design, media kit
- maintenance toolbox

Required:

- gallery space lighting
- transportation.



# About PANGEIART

Crafting new instruments with 21<sup>st</sup> century technology.

PangeiArt is an organization that designs and builds musical instruments for new music, interactive exhibitions, live performances, educational programs and music productions.

Since 2001, PangeiArt has been closely collaborating with foundations, museums, cultural centers, galleries, ensembles, composers, film directors and producers.

Our services include, developing multiplayer musical instruments, the touring exhibition INSTRMNTS, with more than 30 unique musical instruments and sound installations with workshops and performances. We also create music for film, dance, opera and for our own projects with a unique set of musical instruments.

We make use of digital technologies such as 3D modeling, CNC machining, laser cutting and 3D printing for the development of new contemporary musical instruments. We also test them using Finite Element Analysis (FEA) simulation software.

Our process starts digital and ends with a beautiful physical object. "Born digital musical instruments" allow us to control every aspect in their construction from design, materials and testing to fabrication and assembly.

## INSTRMNTS were exhibited at:

Afrika Museum, Netherlands;  
Philharmonie Luxemburg;  
National Museums of Scotland;  
Centro Cultural de Belém, Lisbon;  
Royal Opera House, London;  
National Centre for Craft and Design, UK;  
São Luiz Teatro Municipal, Lisbon;  
SESC São Carlos, Brazil;  
Teatro Colsubsidio, Bogota;  
National Anthropology Museum, Luanda;  
and many more.



Victor Gama is a composer whose work unfolds at the intersection of sound, design, and cosmology. His creative process integrates the conception and construction of musical instruments into composition itself, where each new instrument becomes both a score and a sonic landscape. Through INSTRMNTS, a series of over twenty original instruments, Gama explores the material and symbolic dimensions of sound as a form of knowledge. His works have been performed by the Kronos Quartet, Chicago Symphony Orchestra, Gulbenkian Orchestra, and others, and presented at venues including Carnegie Hall, Concertgebouw Amsterdam, and Haus der Kulturen der Welt, Berlin.



Contact us

Visit the exhibition  
[www.instrmnts.com](http://www.instrmnts.com)

[victorgama@pangeiart.org](mailto:victorgama@pangeiart.org)

[www.pangeiart.org](http://www.pangeiart.org)  
+351 91270 6612



Loods 6, KNSM-Laan 155,  
1019 LC, Amsterdam



a PangeiArt project  
design | instruments | music