

José I. Kempff Seleme

contact

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Spanish driver's license: B

Nationalities: Bolivia / Germany

languages

Spanish (Native)

English (C1)

German (B2)

education

University College London

The Bartlett School of Architecture

London, UK

MSc in Architectural Computation

(2025 – 2026)

Universitat Politècnica de Catalunya

Barcelona, Spain

Postgraduate in BIM for Modeling, Calculation and Simulation

(2024)

Universidad Politécnica de Madrid

ETSAM

Madrid, Spain

Master of Architecture

(2022 – 2023)

Master's Thesis: "SÚPER M.A.N. – Un nuevo paradigma de museo arqueológico"

<https://oa.upm.es/76075/>

BSc in Foundations of Architecture

(2015 – 2022)

Bachelor's Thesis: "La arquitectura y su

contexto gráfico: Procesos de digitalización"

<https://oa.upm.es/72669/>

Technische Universität München

Munich, Germany

Erasmus+ Exchange Programme

(2020 – 2021)

Deutsche Schule Santa Cruz

Santa Cruz de la Sierra

International Baccalaureate Diploma

(2013 – 2014)

High School Diploma

(2002 – 2014)

summary

Licensed architect (Spain, EU) with a strong focus on computational design, building technology, and graphic communication. Trained in advanced computational workflows for the built environment across multiple scales, from parametric modelling to programming, including machine learning and LLM-based solutions. Strong interest in construction innovation, from BIM to Design for Manufacturing and Assembly (DfMA). Comfortable in fast-paced work environments, with a high level of self-motivation, curiosity, and initiative. Committed to education and knowledge sharing.

experience

Miautics – Madrid, Spain

- **Computational Design Specialist** – FREELANCE DEC 2023 – PRESENT

Mentored +25 M.Arch students and professionals in their design projects.

Worked in different design stages, from concept to detailing, applying workflows to meet the clients' objectives and expectations with effective communication method and advanced modeling assignments.

Successfully contributed to the educational platform for the generation, production and representation of architectural projects while investigating how the computational approach should be introduced to students through instrumental methodologies.

Sener / Quark – Madrid, Spain

- **Structural BIM Architect** – FULL-TIME FEB 2025 – SEP 2025

Developed national and international data centre projects within multidisciplinary teams, working across RIBA stages 2, 3, and 4 using BIM-based workflows.

Coordinated and managed structural BIM models through the Autodesk Construction Cloud (ACC), ensuring consistency, accuracy, and effective collaboration across disciplines.

Consolidated and optimised established internal BIM workflows, while also proposing and developing new workflow initiatives to improve efficiency and model reliability.

Supported structural and mechanical calculations, translating analytical outputs into coordinated BIM models suitable for design development and construction documentation applying in-depth knowledge of Spanish and European structural regulations (CTE) to both metallic and concrete structures, including in-situ and precast systems.

Ingeser – Madrid, Spain

- **BIM Architect** – FULL-TIME FEB 2024 – OCT 2024

Coordinated and developed a wide range of national and international buildings for offices, industrial plants (i.e. food, pharmaceutical) and logistics within the BIM scheme using Revit and specific plug-ins and add-ons, along with the Autodesk suite.

Reviewed third party BIM and IFC models for quality control and coordination of interferences. Improved and automated particular workflows.

Collaborated alongside the Engineering Department in different project's stages, from schematic to detail design, plus construction documents and building permits.

Applied the expertise of Spanish and European accessibility, fire safety, structural security and urban regulations.

Ensamble Studio – Madrid, Spain

- **Architectural Intern** – INTERNSHIP OCT 2023 – DEC 2023

Trained in on-site construction with the construction of the studio's extension building.

Managed the building team applying lean principles and minimized time and effort by 32%.

Assisted in different projects while being introduced to BIM collaboration with other colleagues.

Redecon – Stuttgart, Germany

- **Architectural Designer** – FREELANCE JAN 2021 – MAY 2021

Developed the detail design and construction documentation for a new rehabilitation building in Stuttgart, Germany.

Accomplished to meet strict deadlines according to the building and administrative schedule during the project's execution phase.

Aparicio Arquitectura – Santa Cruz de la Sierra, Bolivia

- **Architectural Intern** – INTERNSHIP SEP 2020 – FEB 2021

Sommet & Asociados – Santa Cruz de la Sierra, Bolivia

- **Design Assistant** – INTERNSHIP Summer 2018

recognitions

“with Honours” course on Soil Mechanics at the ETSAM and highest achievements in three courses at the TUM.

Exhibition of Final Bachelor Project in *Matadero* (Madrid), as part of the ETSAM Show, 2022.

Rotary Club Prize for best student in High School, 2014.

Second best student (salutatorian) of the class of 2014 in the German School.

tools

Computational Design and Programming:

Rhinoceros
Grasshopper
Visual Studio Code, GitHub

BIM and Digital Construction:

Revit
Dynamo
AutoCAD
Autodesk Construction Cloud (ACC)
Vehicle Tracking

Structural, Environmental and Analysis:

Karamba
IDEA StatiCa
Robot Structural Analysis
Ladybug
Kangaroo
CYPE, CYPECAD (Spain)

AI and Automation:

LLMs (Gemini, ChatGPT, Claude)
ComfyUI

Visualization and Media:

Blender
Twinmotion, D5 Render, Enscape, Lumion
Adobe Creative Cloud (Ps, Ai, Id, Ae, Pr)

GIS and Data:

QGIS
ArcGIS

programming

C#
Python
RhinoScriptSyntax

courses

Python for Structural Engineers	2026
<i>Course from “Python for Structural Engineers”, led by Timo Harboe Zollner</i>	
Design Workflows (FTP) with Grasshopper	2023
<i>Course from Miautics (OFFMIAU), led by Álvaro Sánchez Garda</i>	
Intermediate Visual Programming (PVI) with Grasshopper	2019
<i>Course from Miautics (OFFMIAU), led by Sergio del Castillo</i>	
Basic Visual Programming (PVB) with Grasshopper	2018
<i>Course from Miautics (OFFMIAU), led by Sergio del Castillo</i>	

skills

Computational and Algorithmic Design:

Development of advanced parametric and rule-based design systems
Algorithmic modelling across multiple architectural and structural scales
Data-driven workflows integrating geometry, performance, and fabrication logic

BIM and Digital Construction:

BIM coordination, model authoring, and quality control across design and construction stages

Development and optimisation of BIM workflows for multidisciplinary collaboration

Translation of analytical and engineering outputs into coordinated BIM models

Structural, Environmental and Performance Analysis:

Structural and bioclimatic analysis using numerical and algorithmic methods

Application of finite element analysis, ray tracing, and performance-based evaluation

Integration of analysis results into design and construction documentation

AI, Automation and Computational Workflows:

Exploration and application of generative AI and LLM-based methods in architectural workflows

Automation of repetitive processes and optimisation of digital pipelines

Critical assessment and implementation of emerging computational technologies

Design communication and visualisation

Clear graphic representation of complex design and technical information

Visual storytelling for design development, coordination, and client communication

Professional and Interpersonal:

Leadership, team coordination, and collaborative initiative

Strong written and verbal communication with clients, consultants, and contractors

Research-oriented problem solving and analytical thinking

Highly organised, proactive, and self-driven, with a strong curiosity for continuous learning

extracurriculars

Lead Representative of the Bartlett School of Architecture, UCL	2025 – 2026
Student Representative of the MSc Architectural Computation at UCL	2025 – 2026
Multiple times elected as class delegate at ETSAM	2016 – 2022
Erasmus Buddy for incoming international students at ETSAM	2022
Student representative of the ETSAM’s Council	2018
Model-UN delegate, awarded with the excellence prize award	2012 – 2014
Volunteer work (200h) for various NGO’s in Bolivia	2012 – 2013

references

Martha Tsigkari (m.tsigkari@ucl.ac.uk)
Javier Francisco Raposo Grau (javierfrancisco.raposo@upm.es)
Victor Navarro Ríos (victor@langarita-navarro.com)
Sergio del Castillo Tello (miautics@miautics.com)
Antón García-Abril (anton@ensemble.com)