

EDUARDO CHAMORRO

address: Madrid, Spain
telephone : +34 626 54 3000
email: eduardochamorro@gmail.com
website: <http://eduardochamorro.github.io/beansreels/index.html>

EDUCATION

PROFESSIONAL EXPERIENCE

PHD Candidate in Architecture
(2020 - Present) Full scholarship
Swinburne University of Technology
- IAAC , Melbourne, Australia
*Thesis in " High-Performance
Freeform Spatial 3D Printing
Towards A Material Structurally
Optimized Architecture" Supervisors-
Mark Burry & Mathilde Marengo*

Master's in Advanced Architecture
(2017-2018) Scholarship
Institute for Advanced Architecture
of Catalonia (IAAC), Spain
*Innovation and sustainability archi-
tectural master's that integrate
digital technology, science, and
design, ranging from urban and
building to material scale.*

**Postgraduate Diploma in Digital
Fabrication and Prototyping**
(2014) Full Scholarship
MIT-CBA-FabFoundation -EPS CEU
*Digital fabrication integration into
problem-solving and collaboration,
ideas to design and prototypes for
impactful local and global changes.*

Master's Degree in Architecture
(2006 -2014)
San Pablo CEU Polytechnic
University, Spain
*Masters & Graduate Level 7, EQF
NAAB-accredited degree on
Architectural Project Design,
Development and Management,
Construction and Building
Technologies, Urban Planning,
Structural Analysis, and MEP*

FOUNDINGS

CLAB (2022-2023)
3DP biomaterials and hardware
for education development
*Spain Industry Minister, AEI Cluster,
EU Next Generation funds(Grant
AEI-010500-2022b-177)*

eCAADe (2022)
Ghent - PhD workshop

3DPA-TOVA(2021-2023)
Sustainable construction 3DP
*Federal Research Institute for
Construction, Urban Affairs and
Spatial Development of the Ministry
of the Interior, Construction and
Community with funding from
Zukunft Bau R.I. program, for Living
Prototypes (Grant 10.08.18.7-21.02).*

**IAAC
FabLab Barcelona**
(2017 - Present)

**UACEG
Design morphine**
(2021- Present)

Freelance
(2017- Present)

**TIDE Institute
FabLab Seoul**
(2015 - 2017)

EPS CEU University
(2014-2020)

**EBLA Architecture
Studio**
(2014)

EPS CEU University
(2013)

ICO Foundation
(2013)

**CA14 Architecture
Studio**
(2011)

**Senior Researcher & Faculty - Digital Fabrication &
Robotic Expert at FabLab Barcelona & Advanced
Architecture Group - Barcelona, Spain**

- *Digital Fabrication, Computational & Parametric Specialist. Construction, structures and sustainable material expert. Responsible for innovation at laac & FabLab Barcelona.*
- *Project manager and mechatronics consultant of TOVA first 3D printed earthen sustainable construction in Spain.*
- *Project manager and designer of 3DPrinting Recycled plastics with robots work package for Seoul Innovation Lab*
- *Project manager and developer of additive manufacturing with biomaterials Circular Lab (CLAB) in education*
- *Developer in manufacturing systems with robotic arms.*
- *Faculty for courses for sustainable advanced digital fabrication and computation in the Master Design for Emergent Futures, Fab Academy, Open Thesis in 3D printing Architecture, Master in Advanced Architecture and Master in Advanced Ecological Building.*

Computational Robotic Laboratory Faculty

- University of Architecture, Civil Eng. Geodesy of Bulgaria
- *Faculty roles in master of science computational and advanced design, hardware, software opensource platforms*
 - *Research workshop on large scale 3D Printing with robotic arms furniture design.*

**Structural parametric workflow development for
MASSBESPOKE modular timber construction company**
Computational consultant - Londong, England

**Environmental and sustainability Art installation and
artist traingin for MISK Foundation with Atelier Studio**
Technical artist - Saudi Arabia and Belgium.

**Flexible wood housing design system workshop in
collaboration with RCA School, AJG, Hanson, Petersen-
Cables, Nous Engineering**
Co-organizer- Londong, England

**Researcher & Executive Director at FabLab Seoul, Tide
Institute Seoul, South Korea**

- *Faculty, coordinator and FabAcademy instructor. Design and project manager on the pavilions development for COEX, GGCW and Maker Faire Seoul.*
- *Project manager on K-LAB founding FabLabs in South East-Asia with KEC and KOICA.*
- *3D Printer hardware developer for Creatable Labs*

Computational Design & Digital Fabrication Faculty
Madrid, Spain

- *Faculty in courses for computational tools for architecture, UAV and architectural design.*
- *Lead of the design and construction of the university summer school programs pavilions prototypes focusing on material optimization and parametrization.*

**Junior architect- Development of architectural
competitions**
Madrid, Spain

**Exhibition director of "Transformad" architectural
student work exhibit at Madrid Town Hall**
Madrid, Spain

**Exhibition assistant of "Spain mon amour" Spanish
architectural exhibit**
Madrid, Spain

Architectural design & urbanism intern
Barcelona, Spain

SOFTWARES

| | |
|-------------|--------------|
| Rhinoceros | Arduino |
| Grasshopper | Processing |
| Karamba | Photoshop |
| Mendeley | Lightroom |
| Robots | Illustrator |
| Ladybug | Indesign |
| KUKA PRC | Premiere Pro |
| UR Robot | AfterEffects |
| Vray | Html+css |
| Autocad | MkDocs |
| Metashape | Ms Office |
| Meshroom | OBS |
| Meshmixer | Atom |
| Fusion360 | Sketchup |
| Eagle/Kicad | etc... |

LANGUAGES

| | | |
|----------------|---------------|----------------|
| Spanish | French | English |
| Native | Bilingual | Bilingual |
| | DALF C1 | C1-IELTS 8 |

AREAS OF EXPERTISE

Computational design
Material innovation
Rapid prototyping
Sustainability
Robotic arms
Digital fabrication
3D scanning
Creativity & innovation
Biomaterials
Design thinking
Project management
U.A.V.

REFERENCES

FabLab Barcelona (Spain)

Guillem Campodron
Executive Director of FabLab
Barcelona - IAAC

EPS CEU (Spain)

Dr. Covadonga Lorenzo Cueva
Academic Director of Architecture &
Design School San Pablo CEU
Higher Polytechnic University

IAAC - UPC (Spain)

Dr. Areti Markopolou
Academic Director of Institute for
Advanced Architecture of Catalonia
Advanced Architecture Group, IAAC

TideInstitute (South Korea)

Joseph Hwang
Chief Executive Officer
of Tide Institute

PUBLICATIONS

- FABRICATE** (2023) Paper and book publication - FABRICATE 2023 Conference
Enhancing Additive Manufacturing: A Continuum Material Topology Optimization Approach
- ACADIA** (2023) Paper - ACADIA Conference
High-performance spatial composite 3D printing
- DD** (2023) Book chapter - Distributed Design Platform Driving Edited
Collective approaches enriching design principles
- IASS** (2023) Paper - International Symposium of Association for Shell and Spatial Structures
Continuous fibre additive manufacturing of topological spatial lattices for fabrication aware design processes.
- FAB17** (2022) Paper - FAB 17th edition of the Fab Lab International Conference and Fab City Summit - Designing Emergent Realities
Maker-centred challenges: Promote critical thinking about technology and design
- JIDA** (2021) Paper - JIDA Conference on Educational Innovation in Architecture Issue 10, (JIDA 2021)
Hyper-connected hybrid educational models for distributed learning
- CFRD** (2021) Paper - The 3rd International Conference on Computational Design and Robotic Fabrication Proceedings of the 2021 Digital Futures
Additive Manufacture of Cellulose Based Bio-Material on Architectural Scale
- ICERI** (2019) Paper publication - 12th annual International Conference of Education, Research and Innovation
Using drones, 3D modelling and digital fabrication technologies to promote architectural heritage: a case study

ACCOMPLISHMENTS

- 2023** Top 10 selected in "35 under 35" most innovators Architects & Engineers from Spain 2023 by MWCC y Global Shapers Madrid
European Bauhaus Prizes 2023 winner - "Shaping a Circular Industrial Ecosystem and Supporting Life-Cycle Thinking" with TOVA
TOVA, the first 3D printed earth prototype in Spain, Selected best architecture work from 2023 by Archdaily
- 2022** Work Publication in "3dprintingmedia" digital media
First 3D printed earthen construction in Spain
- 2021** Work Publication in "dreamtinyliving" digital media
Ecological Niu Haus Tiny House
- 2019** Work Publication in "TRAE.DK" magazine (Copenhagen, Denmark)
2nd STATE THINK TANK building systems prototype
Exhibit in Danish Architecture Center DAC (Copenhagen, Denmark)
2nd STATE THINK TANK building systems prototype
- 2018** Exhibit of "2nd STATE THINK TANK" in UK Timber Expo 2018
1:1 Prototype flexible design systems for new housing typologies presentation
Exhibit in Festival della Scienza (Genova Science Fair)
Exhibit of FLUX-IN final thesis project developed at IaaC
Documentary Interview, "50 years anniversary" Ceu San Pablo School
Alumni interview as architect expert in digital fabrication
- 2016** Interview, "Seunssanga Documentary" SBS-Tv
Documentary on how maker movement is changing the Seoul
Design Publication, in "Ponoko" & "Design" Korean design magazines
3d print design pieces publication
- 2015** Speaker at "Let's Make Global Forum" Conference Korea, KOFAC
Speaker with Hiroya Tanaka, Paul Duggen, Kim Sung Han and Ha Uk Hui
Founding on "Ideas Club" Korean Government Foundings program
Drone educational kit development grant
- 2014** Work Publication, in "On Diseño" & "Veredes" architectural magazines
3rd Position in ArcChallenge Youth Hostel competition
Contest for refurbishment of a spoiled neighborhood
- 2013** Grant for workshop with Morphosis, OAB, José Gonzalez Gallegos, Izaskun Chinchilla, Zigzag architecture, Mansilla-Tuñón
3rd Position in Orona and Schindler CEU architecture competition
Vertical architectural systems contest