

MASTER'S DEGREE IN

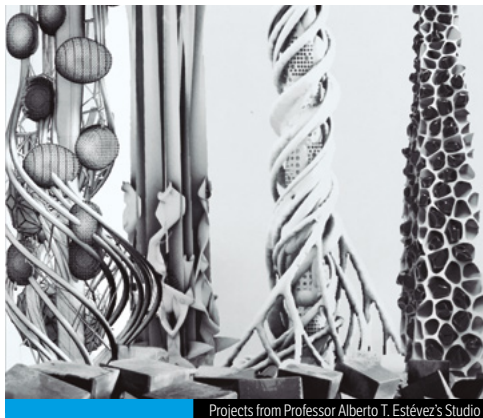
Biodigital Architecture



Projects from Professor Alberto T. Estévez's Studio



Master's degree students after a Final Jury session



Projects from Professor Alberto T. Estévez's Studio



Master's Degree Director

Discover Biodigital Architecture & Design

Join this pioneering Master's programme, which has been running since 2000 and is the first to explore architecture and design from a biological and digital perspective.

It puts an avant-garde syllabus and a new 21st-century architecture and design concept at your fingertips, providing you with the opportunity to apply advanced technology to architecture and design. By giving you access to a whole new world of tools, you can enhance your professional qualifications and job skills.

Are you ready to learn more about the opportunities awaiting you in the field of biodigital architecture and design?

Centre Responsible

UIC Barcelona
School of Architecture

Dates and times

— Classes

January 2024 to June 2024
Monday-Friday, 10:00 h. - 14:00 h.

— Master Thesis Presentation

Jury: 26th September 2024

Language

English

Length

1 academic year, 9 months,
1.800 hours

Contact details

National and international students
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Who can apply?

- University degree holders (with or without work experience), preferably with a degree in Architecture, Engineering, Fine Arts, Design, Landscaping, Biology or Genetics. There is no need for prior specialist knowledge of information technology or biology.
- Professionals from various areas who have an interest in new cyber-digital and ecological-environmental project techniques based on an innovative architectural and design perspective.

Facilities

Digital Architecture Laboratory and
Biological Architecture Laboratory.

ACADEMIC TEACHING STAFF

Director

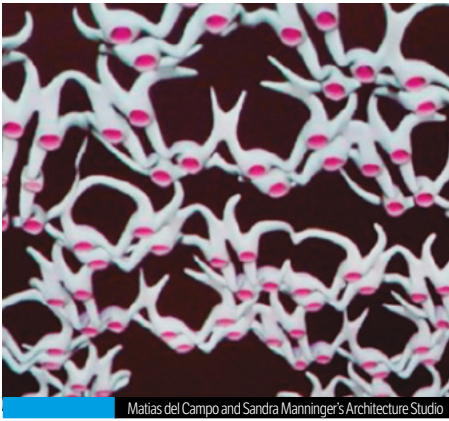
Alberto T. Estévez

Teaching Body

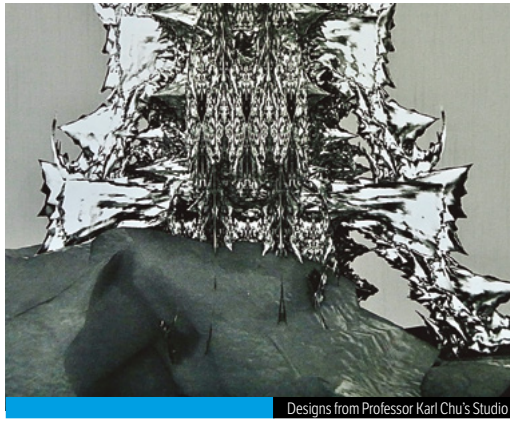
All of the international team of teachers on the programme have made significant contributions to cutting-edge areas of biodigital architecture.

Teaching staff and lecturers since 2000:

Yomna Abdallah
Pablo Baquero
Ezio Blasetti
Dragos Brescan
Mark Burry
Bernard Cache
Karl S. Chu
Josep Corcó
Matias del Campo
Dennis Dollens
Evan Dougliis
Alberto T. Estévez
Gabriel Fernández
Agustí Fontarnau
Effimia Giannopoulou
Mark Goulthorpe
Marwan Halabi
Michael Hensel
Neil Leach
Duncan Lewis
Pablo Lorenzo-Eiroa
Greg Lynn
Sandra Manninger
Achim Menges
Marcos Novak
Kas Oosterhuis
Affonso Orciuoli
Claudia Pasquero
Ignasi Pérez Arnal
Marco Poletto
François Roche
Lars Spuybroek
Judith Urbano
Ariel Valenzuela
Angad Warang
Mike Weinstock
(among others)



Matias del Campo and Sandra Manninger's Architecture Studio



Designs from Professor Karl Chu's Studio



Pablo Baquero and Effimia Giannopoulou's Architecture Studio

CURRICULUM - 60 ECTS

Introduction to Genetics and Biodigital Architecture (10 ECTS)

Seminars and conferences on:

- Metaphysics and Computation
- Theories of Emergence
- The Fundamentals of Genetics
- The Emergent Character of Life
- Eco Manipulation & Eco Materials
- Genetic vs. Generative
- Digital Tools and Organic Forms
- New Bio & Digital Techniques
- The Work of Antoni Gaudí and Salvador Dalí, source of Biodigital Architecture

Information Systems (10 ECTS)

- Digital Tools and Organic Forms

Practical classes to train students in digital tools(e.g. generative software, associative-parametric software, scripting, CAD-CAM production and mechanisation tools linked to product development).

Genetic and Biodigital Architectural Design (30 ECTS)

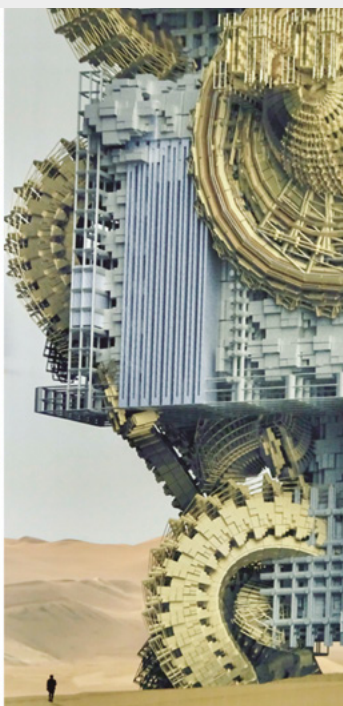
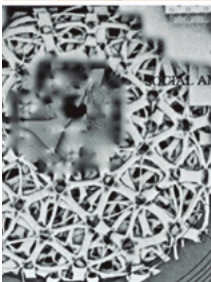
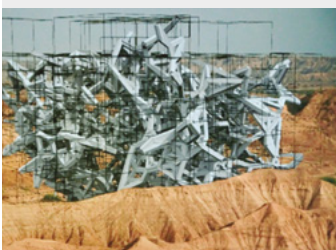
Studios and workshops with personalised tutorials in order to carry out the respective projects and research.

Master's Thesis (10 ECTS)

Final presentation: September.

WHY CHOOSE BIODIGITAL ARCHITECTURE?

- **Innovative education.** Experiment with genetic-driven software, evolutionary processes, emerging systems and scripting.
- **New vision of biological and digital processes for architecture & design.** Explore concepts such as biolearning and morphogenesis.
- **International approach and premier academic staff.** Learn with international teaching staff who have made significant contributions to this new cutting-edge field of biodigital architecture.
- **Small groups.** The small group size allows for more intense learning, in which students work closely alongside teachers.
- **Advanced knowledge.** The advantage of this background in architecture and design has helped the majority of our graduates to achieve teaching positions at universities around the world, and undertake cutting-edge architecture and design projects.



In the city of Gaudí, a pioneering, international and interdisciplinary environment, work related to the research and teaching of Nature & Computation applied to Architecture and Design can be mentioned, including concepts such as Natural Intelligence & Artificial Intelligence, Bio-Learning & Machine-Learning, Bio-Manufacturing & Digital-Manufacturing.



STUDYING IN BARCELONA

Start the most important learning experience of your life in one of the main European cities. Barcelona is a cultural and financial role model and a city where your knowledge can adapt to multiple professional opportunities.

UIC BARCELONA, OUR CAMPUSES

Classes are held on our Barcelona campus and also our Sant Cugat campus, which has a total area of more than 52.000 m². Each Faculty has the best facilities and latest generation equipment for both theoretical and practical classes.

Find out more about the admissions procedure, reserving a place and enrolment here [**uic.es/masters**](https://uic.es/masters).

Click on [**uic.es/grants**](https://uic.es/grants) for information about financial aid, discounts and grants.

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