Marco Verde, educated as an Engineer at Università degli Studi di Cagliari (Italy), earned his post-professional Master's degree (2005) and DEA's degree (2008) in Genetic Architectures (a.k.a. Bio Digital Design) at EsArq-UiC, Barcelona (Spain). Marco is an interdisciplinary practitioner and educator focused on integral design strategies and processes for Non-Standard Architecture. Marco is specialized in emergent technologies and advanced design and he is an expert in the design of material systems, interactive composite structures of variable geometry, interactive systems and parametric-associative systems. With 10 years of professional and academic experience, Marco also masters the territory of digital and rapid fabrication in Architecture, engineering and industrial design.

In early 2005, Marco moved to Spain and joined HYBRIDa (Sylvia Felipe + Jordi Truco Architects) working as project manager, designer, and researcher. During three years, he has been deeply involved in the HybGrid® research project: a patented, real-time responsive and adaptive structural system. The HybGrid, currently renamed as Hypermembrane, has been awarded twice within the Seventh Framework Programme (FP7) in 2011 and 2012. Since 2006, Marco taught design studios and workshops within undergraduate and postgraduate programs across several schools among which EsArq-UiC (Spain), Pratt Institute (USA), Elisava (Spain), University of Nicosia (Cyprus), University of Cyprus (Cyprus), and AA Visiting School in Paris. Since 2006, Marco is also member of the teaching staff at the Bio Design Research Group, an initiative directed by Jordi Truco and currently developed within the ADDA (Advanced Design and Digital Architecture) postgraduate Masters' Degree Program at Elisava, Escuela Superior de Disseny i Enginyeria de Barcelona. In fall 2008, Marco has moved to The Netherlands to join Hyperbody. (HRG). Hyperbody is the research group at the Faculty of Architecture at the Delft University of Technology directed by Prof. ir. Kas Oosterhuis (ONL) focusing on Non-Standard and Interactive Architecture. Here, Marco had held a position as Assistant Professor within the Masters' degree program in Non-Standard and Interactive Architecture. During 2012 Marco thought as Adjunct Assistant Professor at La Sapienza (Rome), and has been invited as Adjunct Assistant Professor at the University of Waterloo to direct a Fall-Term Design Studio at the School of Architecture in Cambridge (CND).

Marco is the founder of [P]a, Performative Design Processes for Architecture (www.marco-verde.blogspot.com), a research and education initiative launched in 2007 and operating within academia to develop interdisciplinary research in computational design strategies, material systems, interactive structures of variable geometry, composites structures and industrialized customization in Architecture. In 2011, Marco inaugurated ALO. ALO is an architectural office where practice, research, and education combine in collaboration with an international network of research partners. ALO develops ALO Co.Re.Division, a resident laboratory focusing on computational research and data-driven fabrication in architecture that serves as an interdisciplinary platform for all activities developed at ALO.

EDUCATION

2008   **DEA,** Diploma de Estudios Avanzados, EsArq, Universitat Internacional de Catalunya. Spain.

2007   **PhD Candidate,** EsArq-UiC. Spain.

2005   **MArch in Genetic Architectures (a.k.a. Bio Digital Design),** EsArq, Universitat Internacional de Catalunya. Spain.

Instructors within the Master's Degree program:
Karl Chu
Evan Douglis
Sylvia Felipe
Achim Menges
Lars Spuybroek
Jordi Truco
Mike Weinstock

2004   **Engineer's Degree,** Università degli Studi di Cagliari, UNICA. Italy (5-years curriculum)

Thesis director:
Prof. Antonio Tramontin.

ACADEMIC EMPLOYMENT HISTORY

2013   **ELISAVA (Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
"Hybrid prototypes/File to Factory 5.0" Workshop within the ADDA Advanced Design and Digital
Architecture Master's degree program at ELISAVA .
\\\ Workshop Director – Studio Master.
March-July 2013, Barcelona, Spain.
keywords_parametric-associative design, digital fabrication, file to factory

2012   **WATERLOO ARCHITECTURE. University of Waterloo**
"deepFORMATIONS Design Studio". Undergraduate Option Design Studio (3rd year)
\\\ Studio Director - Adjunct Assistant Professor.
Fall Semester 2012, Cambridge, Canada.
 keywords_form-finding, parametric-associative design, digital fabrication, file to factory

2012   **La Sapienza. Facoltà di Architettura.**
"Ready to Fabrication. Attività Didattica Integrativa" course offered by CeSMA.
\\\ Course Director - Adjunct Assistant Professor.
Spring Semester 2012, Rome, Italy.
keywords_algorithmic design strategies, parametric-associative design, digital fabrication, file to factory

2012   **ELISAVA (Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
"Hybrid prototypes/File to Factory 4.0" Workshop within the ADDA Advanced Design and Digital
Architecture Master's degree program at ELISAVA .
\\\ Workshop Director – Studio Master.
Spring Semester 2012, Barcelona, Spain.
keywords_parametric-associative design, digital fabrication, file to factory

2012   **ELISAVA (Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
"Hybrid prototypes/File to Factory 3.0" Workshop within the ADDA Advanced Design and Digital
Architecture Master's degree program at ELISAVA .
\\\ Workshop Director – Studio Master.
Fall Semester 2012, Barcelona, Spain.
keywords_parametric-associative design, digital fabrication, file to factory

2011   **UCY. University of Cyprus, Department of Architecture at the Faculty of Engineering**
 "Differential Porosity" 10-day Workshop in Form-Finding, Parametric-Associative Design and Digital
 Fabrication.
 \\\ Workshop Director - Guest teacher.
 August 2011 | Nicosia, Cyprus.
 keywords_ physical form-finding, parametric-associative design, digital fabrication, file to factory.

2011   **ELISAVA (Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
 "Hybrid prototypes/File to Factory" Workshop within the ADDA Advanced Design and Digital Architecture
 Master's degree program at ELISAVA .
 \\\ Workshop Director – Studio Master.
 Spring Semester 2011, Barcelona, Spain.
 keywords_parametric-associative design, digital fabrication, file to factory.

2011   **Architectural Association, AA Visiting School in Paris.**
 "F(AA)SHION" 10 day international visiting programme.
 \\\ Laboratories Curator
 \\\ Studio Director - Guest teacher.
 Spring Semester 2011 | Paris. France
 keywords_parametric-associative design, digital fabrication, file to factory.

2011   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
 "Evolutionary Patterns| deepFORMATIONS" MSc2 Design Studio within the "Non-Standard and
 Interactive Architecture" BSc & MSc Master's degree program at HYPERBODY.
 \\\ Studio Director - Assistant Professor.
 Spring Semester 2010 | Delft. The Netherlands
 keywords_parametric-associative design, digital fabrication, file to factory.

2010   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
            "Ready To Fabrication" Vertical ELISAVA (ES) + HYPERBODY (NL) workshop within the "Non-Standard
            and Interactive Architecture" BSc & MSc Master's degree program at HYPERBODY.
            \\\ Workshop Director - Assistant Professor (co-teaching with Jordi Truco)
            Fall Semester 2010 | Delft. The Netherlands
            keywords_parametric-associative design, digital fabrication, file to factory.

2010   **ELISAVA (Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
            "Performative Proliferations" Workshop within the ADDA Advanced Design and Digital Architecture
            Master's degree program at ELISAVA .
            \\\ Workshop Director – Studio Master.
            Fall Semester 2010 | Barcelona. Spain
            keywords_material systems, form-finding, parametric-associative design, digital fabrication, file to factory

2010   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
            "Performative Proliferations" MSc1 Design Studio within the "Non-Standard and Interactive Architecture"
            BSc & MSc Master's degree program at HYPERBODY.
            \\\ Studio Director - Assistant Professor.
            Fall Semester 2010 | Delft. The Netherlands
            keywords_material systems, form-finding, parametric-associative design, digital fabrication, file to factory

2010   **ELISAVA (Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
            "File to Factory" Workshop within the CoDeLab Master's degree program at ELISAVA.
            \\\ Workshop Director – Studio Master.
            Spring Semester 2010 | Barcelona. Spain
            keywords_parametric-associative design, digital fabrication, file to factory.

2010   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
            "Evolutionary Patterns| deepFORMATIONS" MSc2 Design Studio within the "Non-Standard and
            Interactive Architecture" BSc & MSc Master's degree program at HYPERBODY.
            \\\ Studio Director - Assistant Professor.
            Spring Semester 2010 | Delft. The Netherlands
            keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2010   **University of Nicosia, Department of Architecture**
            "ULTRALIGHT. Lightweight Spatial Formations" Workshop.
            \\\ Workshop Director - Guest teacher
            Spring Semester 2010 | Nicosia. Cyprus
            keywords_ physical form-finding, parametric-associative design, digital fabrication, file to factory.

2009   **ELISAVA (Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
            "Form-Finding. Spatial Formations through material intelligence" Workshop within the Advanced
            Design of Spaces and Materials Master's degree program at ELISAVA.
            \\\ Workshop Director – Studio Master
            Fall Semester 2009 | Barcelona. Spain
            keywords_material systems, form-finding,

2009   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
            "infoMATTERS" MSc3 Design Studio within the "Non-Standard and Interactive Architecture" BSc & MSc
            Master's degree program at HYPERBODY.
            \\\ Studio Instructor - Assistant Professor. (Co-teaching with Nimish Biloria)
            Fall Semester 2009 | Delft. The Netherlands.
            keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2009   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
            "ProtoSPACE 4.0" within the "Non-Standard and Interactive Architecture" BSc & MSc Master's degree
            program at HYPERBODY.
            \\\ Studio Instructor specialized in Digital Fabrication/File to Factory within MSc2 course
            Spring Semester 2009 | Delft. The Netherlands.
            keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2009   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
            "Interactive Tinkering Workshop" within the "Non-Standard and Interactive Architecture" BSc & MSc
            Master's degree   program at HYPERBODY.
            \\\ Workshop Director - Assistant Professor within MSc1 and MSc3 courses
            Spring Semester 2009 | Delft. The Netherlands.
            keywords_computational design, digital fabrication, file to factory, interactive systems.

2009   **TU Delft (Faculty of Architecture at the Delft University of Technology).**

"Computational Design and Manufacturing Workshop" within the "Non-Standard and Interactive Architecture" BSc & MSc Master's degree program at HYPERBODY.
\\\ Workshop Director - Assistant Professor within MSc1, MSc2 and MSc3 courses
February 2009 | Delft. The Netherlands.
keywords_parametric-associative design, digital fabrication, file to factory.

2008   **TU Delft (Faculty of Architecture at the Delft University of Technology).**
"Computational Design and Manufacturing Workshop" within the "Non-Standard and Interactive Architecture" BSc & MSc Master's degree program at HYPERBODY.
\\\ Workshop Director
December 2008 | Delft. The Netherlands.
keywords_parametric-associative design, digital fabrication, file to factory.

2008   **EsArq-UiC (Universitat internacional de Catalunya).**
"Ma(s) Lab 2008. Lesseps Metamorpho/sys. Final Thesis within Genetic Architectures Master's degree program.
Studio Director: Jordi Truco.
\\\ Studio Master – Adjunct Instructor
March-June 2008 | Barcelona. Spain.
keywords_material systems, form-finding, parametric-associative design, digital fabrication, file to factory

2008   **Symposium: "SIMAE 2008 Symposium of Emergent Architecture".**
EsArq-UiC (Universitat internacional de Catalunya).
\\\ Workshop Session Organization and "TopSolid Workshop Instructor
April 7 to 11 2008 | Barcelona. Spain.
keywords_parametric-associative design

2008   **ESARQ - UIC (Universitat Internacional de Catalunya).**
"Floral Obsession". Final Review. Matias del Campo Workshop within Genetic Architectures Master's degree program.
\\\ Guest Critic
March 2008 | Barcelona. Spain.

2008   **ESARQ - UIC (Universitat Internacional de Catalunya).**
"Evolutionary Computation Workshop" within Genetic Architectures Master's degree program.
\\\ Director-Instructor
February 2008 | Barcelona. Spain.
keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2008   **ESARQ - UIC (Universitat Internacional de Catalunya).**
"Architecture and Digital Fabrication I-II". Undergraduate Studio. Studio Director: Jordi Truco.
\\\ Studio Master – Adjunct Instructor
January-March (I), April-June (II) 2008 | Barcelona. Spain.
keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2007   **ELISAVA Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
"Espais Híbrids". Final Review. Jordi Truco & Sylvia Felipe Studio. Undergraduate Design Studio.
\\\ Guest Critic
January - April 2007 | Barcelona. Spain.

2007   **ESARQ - UIC (Universitat Internacional de Catalunya).**
"Architecture and Digital Fabrication". Undergraduate Studio. Studio Director: Jordi Truco.
\\\ Studio Master – Adjunct Instructor
January - April 2007 | Barcelona. Spain.
keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2006   **PRATT School of Architecture. NY.**
Ma(s) Lab 2006. Advanced Design Studio-Undergrad 5th year. Studio Director: Jordi Truco.
\\\ Studio Assistant in advanced parametric design strategies
Fall semester 2006 | New York. U.S.A.
keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2006   **PRATT School of Architecture. NY.**
Frederic Levrat Studio. Final review.
\\\ Guest Critic
Fall semester 2006 | New York. U.S.A.

2006   **PRATT School of Architecture. NY.**
Lonn Combs Studio. Final review.
\\\ Guest Critic

Fall semester 2006 | New York. U.S.A.

2006   **GSAPP–COLUMBIA UNIVERSITY (Graduate school of Architecture Planning and Preservation).**
      Frederic Levrat Studio
      \\\ Guest Critic
Fall semester 2006 | New York. U.S.A.

2006   **ELISAVA Escola Superior de Disseny - UPF (Universitat Pompeu Fabra).**
      "Espais Híbrids". Final Review. Jordi Truco & Sylvia Felipe Studio. Undergraduate Design Studio.
      \\\ Guest Critic
January - April 2006 | Barcelona. Spain.

2006   **ESARQ - UIC (Universitat Internacional de Catalunya).**
      "Ma(s) Lab_02" Design Studio within Genetic Architectures MArch. Studio Director: Jordi Truco.
      \\\ Studio Assistant
January – April 2006 | Barcelona. Spain.
keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2006   **ESARQ - UIC (Universitat Internacional de Catalunya).**
      "Digital Productions". Undergraduate Studio. Studio Director: Jordi Truco.
      \\\ Studio Assistant
January - April 2006 | Barcelona. Spain.
keywords_computational design, parametric-associative design, digital fabrication, file to factory.

2005   **ESARQ - UIC (Universitat Internacional de Catalunya).**
      "Liminal Evolutions": Vertical Workshop. Director: Mike Weinstock. Coordinator: Jordi Truco.
      \\\ Studio Assistant at Lluis Viu Workshop.
September 2005 | Barcelona. Spain.
keywords_computational design, parametric-associative design, digital fabrication, file to factory.

PROFESSIONAL EMPLOYMENT HISTORY

2011   **ALO and ALO Co.Re.Division**
            \\\ Founder and Director
            Cagliari. Italy

2007   **seGV_ Sistemes i Estructures de Geometria Variable S.C.P.**
            \\\ Engineering and Parametric Control System for the HybGrid® Research Project: Real time responsive and adaptable structural system.
            \\\Real Time Prototype development, fabrication (CNC and Fiber Composite) and assembly.
            Barcelona. Spain

2007   **Marco Verde Engineering and Architecture foundation. (IT) 03124710926.**
            Cagliari. Italy.

2005-8   **HYBRIDa _Sylvia Felipe + Jordi Truco Architects.**
            \\\ Project Manager, Designer, and Researcher on the HybGrid® Research Project.
            Barcelona. Spain.

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LECTURES, EXHIBITIONS AND PUBLICATIONS

2014   **Salone Satellite, Salone Internazionale del Mobile**
\\\ Space Intensifier 1.0 invited to be exhibited
April 8th to 13th 2014 | Milano, Italy

2013   **Waterloo Museum, Earth Fire Light Gala**
\\\ Space Intensifier 1.0 invited to be exhibited
March 22nd until April 22nd 2013 | Kitchner, Canad**a**

2012   **Path to Practice, Waterloo School of Archtrcture.**
\\\ Academic Lecture: Ready to Fabrication
October 2012 | Cambridge, Canada.

2012   **Nuit Blance Toronto.**
\\\ Exhibition. "*Quasar 2.0: Star Incubator*" by Jean Michel Crettaz & Mark-David Hosale.
June 2012 | Cagliari, Italy

2012   **Pecha Kucha Night Cagliari.**
\\\ Lecture. "Form as a Process".
June 2012 | Cagliari, Italy

2012   **UCY. University of Cyprus, Department of Architecture at the Faculty of Engineering**
\\\ Academic Lecture: Divergent Actualizations.
February 2012 | Nicosia, Cyprus

2012   **UNICA. Facoltà' di Architettura di Cagliari.**
\\\ Academic Lecture: Divergent Actualizations.
February 2012 | Cagliari, Italy

2011   **Conditions. New Knowledge – New Practice Issue 9/2011. Independent Scandinavian Magazine on architecture and urbanism. International Peer Reviewed Conference.**
\\\ Published Interview.
 Architecture magazine. Norway

2011   **FABRICATE 2011. International Peer Reviewed Conference.**
\\\ Published in Proceedings and Lecture.
April 2011 | London, UK

2011   **Architectural Association, AA Visiting School in Paris.**
\\\ Academic Lecture: Divergent Actualizations.
March 2011 | Paris, France

2011   **Connecting Concepts Exhibition. Premsela, the Netherlands Institute for Design and Fashion; the Netherlands Architecture Institute; and Design Cooperation Brainport**
\\\ Students' Projects Exhibition
2011-2013 | Traveling Exhibition

2010   **MACHINING PROCESSES.** Architectural Biennial Beijing Students.
\\\ Published in Proceedings.
December 2010 | Beijing, China.

2010   **University of Nicosia, Department of Architecture**
\\\ Academic Lecture. "Towards Diversity"
June 2010 | Nicosia, Cyprus.

2009   **ACADIA09. reForm()**
\\\ Published in Proceedings, Critical projects.
October 2009 | Chicago, USA.

2009   **ENHSA-EAAE Architectural Design Teachers' and Construction Teachers' Networks**
\\\ Key Note Speech (+ article in proceedings). "FRICTION"
June 2009 | Genoa, Italy.

2009   **AAST 2009. Advanced Architecture Exhibition Settimo Tokyo**
\\\ Generative Computational Design and Advanced Architectural Research International Exhibition.
"[M]SYSTEMS | Multiperformative Efficient Systems"

April 2009 ! Settimo Torinese, Italy.

2009   **HYPERBODY. Faculty of Architecture at the Delft University of Technology**
\\\ **Academic Lecture.** "Technologies | Processes"
February 2009 | Delft. The Netherlands.

2008   **HYPERBODY. Faculty of Architecture at the Delft University of Technology.**
\\\ **Academic Lecture.**
"Systems: Generation and Fabrication through Parametric Associative Design Strategies".
December 2008 | Delft. The Netherlands.

2008   **SIMAE 2008. Symposium of Emergent Architecture. EsArq-UiC**
\\\ **Academic Lecture.** "Generation and Fabrication through Parametric Associative Design Strategies".
April 2008 | Barcelona. Spain.

2008   **ON DISEÑO,** Nº 291, Ed. ONDISEÑO S.L., Barcelona, 2008.
\\\ **Published in HYBRIDa article.**
Architecture magazine. Spain.

2007   **Patent Constructions. New Architecture made in Catalonia**, Ed. Albert Ferré, ACTAR, Barcelona, 2007.
\\\ **Published in HYBRIDa article.**
Architecture book. Spain.

2007   **Via Construccion,** Nº 42, Grupo Via Editores, Barcelona, 2007.
\\\ **Published in HYBRIDa article.**
Architecture magazine. Spain.

2006   **Oficinas,** Nº 262,Cetisa Editores S.A., 2006, Barcelona.
\\\ **Published in HYBRIDa article.**
Office architecture magazine

2006   **Subtle Technologies 2006. Responsive Architectures Symposium. University of Toronto.**
\\\ **Academic Lecture.** Contribution to "From Form Generation to form Adaptation" Sylvia Felipe & Jordi Truco. "Parametric Design and Strategies" real Time demonstration.
June 1 to 4 of 2006 | Toronto. CANADA.

2006   **Responsive Architectures: Subtle technologies 2006,** Ed. Philip Beesley, Sachiko Hirosue, Jim Ruxton, Marion Tränkle, Camille Turner. Riverside Architectural Press, Toronto, 2006.
\\\ **Publication.** Contribution to HybGrid® Research Project by HYBRIDa.
Article in Book. Canada.

GRANTS

2013   **Micorincentivi per l'innovazione.**
            \\\ Grant awarded by Sardegna Ricerche, Regione Autonoma della Sardegna
            Cagliari. Italy

2007   **Master and Back Program.**
            \\\ Scholarship awarded by Regione Autonoma della Sardegna to carry out postgraduate education programs.
            Cagliari. Italy

AWARDS

2013   **Open Design Italia Exhibition.**
            \\\ Selected Designer
            Open Design Italia Exhibition, Venice, Italy

2013   **Young e Design Award, Rima Editrice.**
             \\\ Special Mention
            Salone Internazionale del Mobile, Milan, Italy

CONTACT INFO

Marco Verde Unica Engineer, EsArq , MArch

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Link: www.alo-architettura.com
Link: www.marco-verde.blogspot.com
Link: www.facebook.com/PerformativeDesignProcessesForArchitecture