

POST-DOMESTIC HABITAT



### PAD. Pages on Arts and Design

International, peer-reviewed. open access journal founded by Vanni Pasca in 2005

### **Editor-in-Chief**

### Marinella Ferrara

Politecnico di Milano, Italy

### **Advisory Board**

### Tevfik Balcıoğlu

Arkin University, Kyrenia, Turkey

### Murat Bengisu

Izmir University of Economics, Turkey

### Isabel Campi

Design History Foundation, Barcelona, Spain

### **Eduardo Corte Real**

UNIDCOM/IADE, Lisbon, Portugal

### Antonio da Cruz Rodrigues

Universidad Lusofona, Lisbon, Portugal

### Soumiva Mikou

Moroccan Design Association, Casablanca, Morocco

### Ely Rozenberg

RUFA, Rome University Fine Art, Italy

### Mireia Frexia Serra

Gracmon, Universitat de Barcelona, Spain

### Andreas Sicklinger

Alma Mater Studiorum Università di Bologna, Italy

### Fedia Vukić

University of Zagreb, Croatia

### **Managing Editor**

### Chiara Lecce

Politecnico di Milano, Italy

### **Editorial Assistant**

### Giorgia Bonaventura

Politecnico di Milano, Italy

### **Editorial Board**

### Giuseppe Amoruso

Politecnico di Milano, Italy

### Helena Barbosa

University of Aveiro, Portugal

### Michela Bassanelli

Politecnico di Milano, Italy

### Letizia Bollini

Libera Università di Bolzano, Italy

### Stefania Camplone

Università degli Studi di Chieti-Pescara, Italy

### Roberto De Paolis

REPRISE - MUR independent scientific expert. Italy

### Cinzia Ferrara

Università degli Studi di Palermo, Italy

### Francesco E. Guida

Politecnico di Milano, Italy

### **Ashley Hall**

Royal College of Art, London, England

### Elif Kocabiyik

Izmir University of Economics, Turkey

### Lia Krucken

Creative Change, Brazil and Germany

### Carla Langella

Università degli Studi di Napoli Federico II. Italy

### Giuseppe Lotti

Università degli Studi di Firenze, Italy

### **Tomas Macsotay**

Pompeu Fabra University, Spain

### Nicola Morelli

Aalborg University, Copenhagen, Denmark

Alfonso Morone

## Università degli Studi di Napoli Federico II, Italy

Raquel Pelta

### Universidad de Barcelona, Spain

### Daniele Savasta

Izmir University of Economics, Turkey

### Rosanna Veneziano

Università degli Studi della Campania Luigi Vanvitelli, Italy

### Li Zhang

Beijing Information Science and Technology University, China

### **Publishing Consultant**

Vincenzo Castellana, Architect, Italy

### **Art Direction**

Francesco E. Guida

### Web Site

Pietro Forino, www.pietroforino.com

### Correspondents

Amina Agueznay (Morocco), Hèla Hamrouni (Tunisia), Vesna Kujovic (Montenegro), Can Özcan (Turkey), Ana Perkovic (Croatia), Filip Roca (Montenegro), Azadeh Sabouri (Iran), Marco Sousa Santos (Portugal),

Pascale Wakim (Lebanon)

### Reviewers

Anna Anzani, Laura Arrighi, Michela Bassanelli, Ondina Cafiero, Aslı Cicek, Elena Elgani, Francesco E. Guida, Chiara Lecce, Vera Sacchetti.

### PAD

via Festa del Perdono 1 - 20122 Milano - Italy via Roma 171 - 90133 Palermo - Italy info@padjournal.net - editors@padjournal.net

### **Publisher**

### Aiap Edizioni

via A. Ponchielli 3 - 20129 Milano - Italy aiap@aiap.it - www.aiap.it

PAD © ISSN 1972-7887 #25, Vol. 16, December 2023 www.padjournal.net

## 003

## 0. EDITORIAL #25

Post-Domestic Revolution by Michela Bassanelli & Vera Sacchetti	006
I. MORE-THAN-HUMAN PERSPECTIVES. COHABITATION, TECHNOLOGY, ARTIFICIAL INTELLIGENCE	
<b>Biotopia. The Design of Decentered Domesticities</b> by Jacopo Leveratto	020
<b>Transhuman Identities. Rewiring the Domestic Subject</b> by Vanessa Galvin	038
Post-Domestic Living. The Challenge of Adapting Domestic Spaces to the Evolution of Digital Technologies by Silvana Donatiello & Mariarita Gagliardi	051
Extractivism, Gendered-Computing and Online Queer Spaces. The Case of the Sims and Liquid Nitrogen Overclocking by Cyrus Khalatbari, Lucrezia Perrig & Guillaume Guenat	073
RGB Tour. Exploring of the "YouTube Bedroom" Type by Nicolas Bailleul	098
Rethinking Carceral Domesticity. Electronic Monitoring, Punishment and Home as Prison by Ece Canlı	121
II. DOMESTIC DEVICES. HOW INTERIOR ARCHITECTURE AND DESIGN REACT TO THE CONTEMPORARY SCENARIO	
<b>Habitat as a Service. From Bespoke to Custom Interiors</b> by Raffaella Fagnoni, Davide Crippa & Annapaola Vacanti	149
Flexibility in the Workplace. Envisioning the Role of Domestic Spaces in the Era of Hybrid Work by Sofia Cretaio & Paolo Tamborrini	169
<b>Vicarious Domestic States. The Post-Domestic Turn of Digital Twinning Habitual Settings</b> by Gerhard Bruyns, Daniel Elkin, Andrea Navarrete & Veronica Ching Lee	193
The Scenography of Everyday Theater. A New Narrative of Domesticity by Jiarui Cui	209

Vanity Chamber. Reflecting Upon Domestic Boundaries and Frontiers for a Post-Pandemic Home by Nicholas Thomas Lee	227
Post-Domestic Ageing. Living Indoors (Without) Looking Outside? Architectural Design and IT Devices for a New "Ageing in Place" by António Carvalho, Tianqin Chen & Jingya Zhou	254
Redefining Paradigms. How Technology Shapes Interior Spaces in the Age of Drones and Flying Cars by Anna Barbara & Elena Baharlouei	283
III. BIOGRAPHIES	
About the Authors	303

# MORE-THAN-HUMAN PERSPECTIVES

COHABITATION, TECHNOLOGY, ARTIFICIAL INTELLIGENCE

## **Biotopia**

# The Design of Decentered Domesticities

### Jacopo Leveratto

Politecnico di Milano Orcid id 0000-0002-3762-6803

### **Keywords**

More-Than-Human Design, Posthuman Architectures, Expanded Cohabitation, Climate Change, Ecosystem Entanglement.

### **Abstract**

Although the term habitat represents one of the most crucial ecological concepts for describing the relationship between some species and their environment, it is also one of the vaguest. This is why, in the past few years, it has often been replaced by more specific ones, which could clearly identify the relationships at stake. This is the case, for instance, of the term biotope, which recently, with the increasing awareness of ecosystem interconnectivity, has taken more and more relevance in comparison to the previous one. Whereas a habitat, in fact, is the sum of the physical and biotic resources of a place that allows the survival and reproduction of a particular species, a biotope represents the habitat not of a specific population, but of a whole biotic and sympoietic community. A feature that perfectly describes the characteristics of a new design approach, generally called more-than-human, here analyzed from both a theoretical and methodological standpoint, which today, to tackle major environmental challenges, focuses on building architectures in which multiple species can find some terms for cohabitation. And which, therefore, not only entails addressing a new class of subjects but also challenges the role of architects and other practitioners in this field by requiring new ways of designing that enhance interspecies coexistence and collaboration.

Ever since the Enlightenment, Western philosophers have shown us a Nature [...] [as] a backdrop and resource for the moral intentionality of Man, which could tame and master [it] [...]. [In the last few years] several things have happened to undermine this division of labor. First, all that taming and mastering has made such a mess that it is unclear whether life on earth can continue. Second, interspecies entanglements that once seemed the stuff of fables are now materials for serious discussion among biologists and ecologists, who show how life requires the interplay of many kinds of beings. [...] Third, women and men from around the world have clamored to be included in the status once given to Man. (Lowenhaupt Tsing, 2015, p. vii)

## 1. The Project of Expanded Cohabitation

Over the last ten years, even in the field of spatial and environmental design, few books have been more influential in giving hints On the Possibility of Life in Capitalist Ruins than Anna Tsing's anthropological study of the interspecies relationships in Japanese forests (2015). And probably, one of the main reasons lies in her recurring use of the term entangle*ment*, which, in Tsing's words, not only reframes perfectly the range of human agency in its constructive relationship with the world but also represents a precise strategy of "collaborative survival" to subvert the logic of the current model of growth. The same logic that brings Tsing, as a form of opposition, to promote different forms of "making world together" among different subjects, be they humans, pines, or even fungi, as the ability to do so, in her view, "is not limited to humans" but belongs to "all organisms [that] make ecological living places" (Lowenhaupt Tsing, 2015, p. 22).

Through projects that often overlap, conflict, or leave room for other subjects, but which must be considered, in any case, as part of that complex process of multispecies world-making, sometimes unconscious or unintentional, documented also by other contemporary studies in the field. Like those by Isabelle Stengers (2015) or Donna Haraway (2016), for example, who, in the same years, by looking at the world through an extraordinary collection of stories of mutual survival and ecological animism, showed how the Earth is co-inhabited and built not by individuals but by a myriad of entangled and "sympoietic" existences (Haraway, 2016, p. 58). And which therefore, today, not only call scientists for studying humans as part of multispecies and symbiotic communities but also ask designers to rethink the world as built by and for these communities. Thus pushing them to reconsider the traditional idea of *habitat* that consolidated over the years and, with it, one of the longest-debated ecological concepts for describing the relationship between some species and their environment.

This is because, although the word habitat represents one of the most used terms to indicate such a complex environmental relationship, it is also one of the vaguest. As much as its consistency, within life sciences, had already been a matter of discussion since 1959, when Miklos Udvardy, one of the fathers of biogeography, began to study the topic. Before that date, in fact, the word, which had been in use since the mid-eighteenth century, was such a commonly accepted term that few ecology text-books, above the elementary level, bothered with a clear definition, while most of them employed it in a very generic way, often as being synonymous with others, like *niche* or *biotope*.

## 2. More-Than-Human Design

find some terms for cohabitation.

In this regard, everything began to take hold in 2021, even though it is hard to tell whether it was a coincidence or not. First, in January, a highly diffused reader edited by Andrés Jaque, Lucia Pietroiusti, and Marina Otero Verzier openly promoted a relational way of "designing-with" "more-than-human" entities to expand the notion of cohabitation.

es, focuses on building architectures in which these species can

Then, in May, Olafur Eliasson responded to Hashim Sarkis's invitation to the Venice Biennale by issuing a More-than-Human Chart and calling over fifty participants, as new planetary representatives, to form a *Future Assembly* for "more-than-human stakeholders" (Studio Other Spaces, 2021). And finally, at the end of June, a board of eighteen experts, including architects like Kengo Kuma and Bjarke Ingels, presented to the European Commission the New European Bauhaus Concept Paper, which was opened by the recommendation to designers to "adopt a more-than-human ... culture" (NEB High-Level Round Table, 2021). Thus sanctioning, from an institutional perspective, what would be further developed, from that year on, by other theoretical contributions, like Ron Wakkary's book on the Design for More-than-Human-Centered Worlds (2021), and a whole constellation of outstanding practitioners working on the topic. Major offices like Studio Other Spaces and Office for Political Innovation, for example, but also emerging practices like Studio Ossidiana and Atelier Dalziel, researchers and artists like Joyce Hwang and Alexandra Daisy Ginsberg, or non-profit agencies like Prostorož. All borrowing the "more-than-human" terminology that Stanislav Roudavski introduced three years earlier to designate the creation of artificial habitats to replace natural ones (2018), and using it to describe all the different attempts to decentre design that, even today, after several declarations and manifestos, still struggle to fit a clearer definition than that of an open container of experimentations.

More-than-human, however, is not only a captivating designation, elusive enough to be freely adopted. On the contrary, from a theoretical standpoint, it represents one of the most

recent developments of a precise critical position that takes the name of "posthuman" (Braidotti, 2013). A current of thought that has taken shape in the last twenty years from the progressive convergence of non-anthropocentric and post-humanistic theories in their refusal of the modern ideology of man as the interpretative limit of reality, and which today, due to a greater awareness of the human impact on the natural balance of the planet, mainly focuses on the promotion of a fundamentally biocentric perspective that considers the whole living environment as having some basic rights to flourish, regardless of its instrumentality. The same idea which also the term more-than-human refers to, by making additionally clear, in its affirmative reformulation of the prefix *post*, that its aim is not the exclusion of human subjectivity from the picture but its inclusion in an expanded technologically mediated continuum between nature and culture. And which therefore asks design to imagine the world from a perspective of interspecies coexistence and collaboration, which not only entails a new subject of reference, either in terms of fruition or agency, but also challenges the role of the practitioners in this field, by requiring the definition of a holistic approach that, considering the entanglement of ecosystems, can effectively build spaces in which multiple species can find some terms for cohabitation (Leveratto, 2021). Without focusing on finding working solutions for building more-than-human habitats, which in light of what Stengers called the "intrusion of Gaia" would be essentially impracticable, but by devising some sorts of "objectors" to the current logic of development, which could explore "connections with new powers of acting, feeling, imagining, and thinking" (Stengers, 2015, p. 24).

## 3. A Short Catalog of Objectors

Solutions, in fact, are not only partial, sectoral, and sometimes ethically questionable, but they also imply an idea of control that when applied to complex systems like natural ones, as perfectly explained by Michel Serres in his Natural Contract (1992), is simply unrealistic. And even though this may look like entailing a complete reversal of the traditional design method, relevant references in this regard are not missing at all, given that a possible history of such an approach, although unconscious or unexpressed, dates back much earlier than the recent appearance of the more-than-human trend. More precisely, it dates back to the two years, two months, and two days of 1844 that Henry David Thoreau, in the first acknowledged philosophical progressions "from homocentrism to biocentrism" (Buell, 1995, p. 38), spent in solitude amidst a forest of Concord, Massachusetts, to escape the normative limits of civilization in a cabin he built by himself. Not in the form of a house, as he did not conceive it to domesticate the environment by adapting it to his life, nor as a simple shelter, since it was not aimed at making him survive in hostile territory. But just as a bedroom abruptly thrown into the woods, specifically designed to place his most intimate dimension into direct communion with the "Universal Being" that Ralph Waldo Emerson, his mentor, saw permeating each thing (1836, p. 13). In the constructed belief that dwelling, for the first time, could be something different from the Kantian idea of raising a "rampart against the dread" of the exterior world (Edelman, 1984, pp. 25-26), and that a house, by consequence, in direct anticipation of the decline of the bourgeois idea of dwelling that took place in the following century,

It was only, however, during the early 1970s, when the long wave of protest of the previous decade merged with a global economic recession and the first awareness of the *Limits to* Growth (Meadows et al., 1972), that Thoreau's experiment began to be considered a tangible answer to Richard Buckminster Fuller's call for an Operating Manual for Spaceship Earth (1969). On the one hand, as a methodological reference for all the manuals of self-construction that, from Stewart Brand's (1969) to Johan van Lengen's (1980), provided "access to tools" on self-sufficiency, ecology and alternative education. And on the other, as a conceptual guide for a whole series of radical design proposals that suddenly had to be confronted with the explosion of the house and with the idea that the act of dwelling needed other models to survive (Ambasz, 1972). No longer a shelter but rather, as Herbert Muschamp later wrote, a "shelter from a shelter" (1998), like Superstudio's gigantic Supersurface (1972), specifically designed to re-inhabit the world in a nomadic and primitive way, or Ettore Sottsass' *Metaphors* (1974), all devised and built to "re-establish a physical connection with the cosmos [...] and the sense of [one's own] position" (Carboni & Radice, 2002, p. 9). Not to mention the whole series of experiments that, over thirty years, from Jan Szpakowicz's house in the woods (1971) to Marco Casagrande and Sami Rintala's burning one (1999), would question the idea of domesticity in its relationship with nature by deconstructing the same idea of the house. Nor that which, from Alexander Pike's *Autonomous House* (1974) to Atelier Van Lieshout's *Autocrat* module (1997), would try to rebuild this idea in terms of sustainability, openness, and mobility. Even though it was only in the early 2000s that the idea of dwelling without domesticating began to be translated into that of creating a living space for a biotic community, and not by simply building working habitats for other species but mainly by increasing the affordance of the built environment to life and to expanded forms of cohabitation.

Also in this case, the concurrent factors for such a conceptual shift are different and not coordinated. In 2002, for example, a largely diffused article by Paul Crutzen, which first featured the term "Anthropocene", opened a global debate on the legitimacy and the future sustainability of the anthropocentric perspective in its constructive relationships with the world. And the year later, precisely when Gilles Clément published his Manifeste du Tiers paysage (2003), a highly impactful CNN story documented the impressive resurgence of primary habitats in the Korean Demilitarized Zone, thus indirectly sponsoring Clément's claim on the biological necessity of reserving spaces for nature and its spontaneous evolution. But it was only after the global economic crisis of 2008 and an increasing number of extreme climatic events that these precedents began to be taken as a reference for the construction of new and living biotopes. At first implicitly, like in the case of Marco Casagrande's Ruin Academy (2010), which transformed an industrial building of Taipei into the *compost* of a *third* form of urbanization. And then explicitly, with Junya Ishigami's water garden in Nasu (2018), for instance, composed of one

hundred and sixty artificial biotopes for as many biotic communities, or Raumlabor's Floating University (2018), which turned a nineteenth-century retention basin of the Tempelhof Airport into a laboratory for building, in a participated way, new possibilities of being together and *becoming-with* different subjects of reference. Even though, from a design standpoint, few projects can better exemplify the change in the idea of domesticity that this biocentric perspective entails than that devised, along with Miguel Mesa del Castillo, by Office for Political Innovation, the studio led by Andrés Jaque, for a new kind of residence, called *Rambla Climate-House*, in Molina de Segura, Spain (2021).

## 4. The Study of a Biotope

The story, in this regard, began in 2018, when local architect Mesa del Castillo was asked by his brother and sister-in-law to build them a home in a formerly rural county of Murcia that, since the 1980s, had been radically transformed by a suburban development, which had almost completely flattened its rich territorial system of ravines and turned it into a catalogue of "cookie-cutter neo-Mediterranean villas, [...] imported palm trees, swimming pools, and plastic lawns" (Ayers, 2022). Mesas's idea, by contrast, which aimed to second his brother's family's desires to live in closer contact with nature, was to design a house that could act as a sort of reparation for the environmental damage caused by over-urbanization, and which could also be considered as a manifesto in relation to climate change. The ravines of the area, in fact, which had been carved by seasonal rainfall, had traditionally represented corridors of humidity, biodiversity, and ecological entanglement, and before their partial destruction, they had played a crucial role in the climatic balance and in the soil stability of that ecosystem. For this reason, after calling his old friend Jaque to work on the topic, they began to work on the project of the house by starting from the site, which they treated, in contrast to the usual practice, not by flattening the terrain but by creating an artificial mound, made of the soil excavated for the carport, which they imagined as a fragment of the preexisting ravine. Thus, around this elliptical section, which they left to a spontaneous process of re-naturalization, they built a lightweight steel structure on stilts, which they aligned with the top of the mound without touching it, clad with either galvanized steel on the outer façade, resembling a jagged shed, or floor-to-ceiling glass on the interior one, like in a passive patio house. A structure which they equipped like a monitoring laboratory, with tanks for rain and greywater to be sprayed onto the garden by means of humidity sensors designed to activate an automatized meteorology, and meet the needs of the reparation process meant to regenerate the former ecologic constitution of the area.

Very coherently, then, they organized the house itself in its layout like a sort of observatory of the natural environment there recreated, with a flowing system of open rooms, radially articulated in a counterclockwise sequence around the inaccessible oval of the patio, from which they had to receive almost all the light. Each one with its individual volume, distinct from the others, slightly emerging from the straight profile of the exterior enclosure, roughly quadrangular, but unified by the same finishes, which had to oppose to the coarse face of the outer façade a shiny material board, making use of mint green paint, splashes of red, gold-tinted frames with rose-tinted glass, and a ring of pink marble for the outdoor flooring. In a hybrid mix of scientific rigor and playful livability that perfectly reflects the spontaneous process of natural resurgence, radical inclusivity, and *interspecies justice*, as designers pointed out in their manifesto, which the construction of the house was not aimed at controlling but simply at initiating, by partially renouncing the final responsibility of the formalization process in favor of other kinds of agencies. The same that, following the reparation of the hydro-thermal conditions of the site, after only a one-year period, prompted the first traces of its former morethan-human life to rapidly re-emerge, as much as, in 2021, the year of its completion, the house was hosting spontaneous native grass, myrtles, mastic trees, fan palms, oleanders, and fire trees growing in its strange patio, while insects, birds, and lagomorphs were naturally finding shelter in it. Thus making the house an excellent demonstrative device both for the growing grassroots movement claiming climate reparation in Murcia and for the architectural global debate in its complexity, which was looking for new lines of research, in relation to the domestic field, to tackle climate change-related issues, beyond the rhetoric of sustainability.

The design of the *Rambla Climate-House*, in fact, was not aimed at sustaining the current idea of dwelling but at proposing an alternative one, which, moreover, refuses the anthropocentric perspective that is at the base of the concept of sustainability. Like Thoreau's cabin, it is not a house, as it was not conceived to *domesticate* the environment by adapting it to

people's lives, but it is not even a garden, as it was not meant to keep a distillation of nature for human purposes. Rather, it is a sort of reserve, or a sanctuary, designed to protect from the outside the natural balance there emerged, essentially untouchable, with a sort of "inhabited fence" that, also from a formal point of view, does not precede the biological diversity that is at its center but depends on it. As if human livability represented just one of the effects and not the purpose of the design, which was instead imagined to give shape to a real ecosystem by taking care of the soil that is its very fundament. Always considering that in a biotope, however unintentional, nature's resurgence often needs a human act of "disturbance to enhance diversity and the healthy functioning of ecosystems" (Lowenhaupt Tsing, 2015, p. 152). Which explains why this particular one, in its final configuration, ended up being at once a highly artificial environment, fashioned by means of invasive processes and technological artefacts, and an undisputable natural and living ecosystem, growing over time according to its own inherent dynamics. Those, in other words, of a whole community of more-than-human inhabitants, which is undecided, in constant evolution, and open to heterogeneous forms of cross-fertilization, as well as determined, on the one hand, by unconstrained patterns of natural growth and, on the other, by a precise political recognition concerning its biological necessity for the whole ecosystem to work.

### 5. Conclusions

What is particularly interesting in the project of the *Rambla Climate-House*, in summary, is that it not only offers a literal interpretation of a decentered domestic space, like, for

instance, also Kersten Geers and David Van Severen's Solo House did before (2017). But it is mainly the fact that it perfectly reflects a process of decentering design that is entirely in line with a more-than-human perspective and with a biotopic way of seeing the relationship between different species and their environment. Like one of Stengers' objectors, for example, instead of trying to offer solutions, it was simply aimed at increasing architecture's receptivity to biological diversity by making room for it, without any other purpose and beyond any predetermined hierarchy. And like in Tsing's theory of disturbance, it was based on the awareness that not only design, in most cases, is strictly necessary to initiate the process of making space for more-than-human subjects but also that, however deliberate in its intentions, it frequently ends up being entirely unintentional in its effects. This is why the project has been developed not as an answer to a specific program but as a catalyst for new and unpredicted ones, within an operative field that, while obviously remaining that of the project, considered it as a proposal rather than a predetermination. And not because of an intended informality, but due to the understanding that, when dealing with interspecies relationships, design outcomes are largely unforeseeable, and that their quality mainly resides in the multiple opportunities of appropriation they enable for heterogeneous inhabitants. By interpreting programs, for instance, in terms of interconnection rather than division, openness rather than segregation, and indeterminacy instead of specialization. But even by showing architecture as a form of collaborative construction, defined by the idea of radical inclusion that is implicit in a more-than-human vision of the world.

At the same time, however, what is equally relevant to notice is that, unlike what one might expect, this project, like many others adopting a more-than-human design approach, also challenges the contemporary theory that emphasises an eco-scientific approach to systems and metabolisms, and restore an idea of architecture as a historically constituted symbolic system. In that, from a certain point of view, as any other reconstructive reading of nature, the Rambla Climate-House complicates "the claim that contemporary ecological, bio-mimetic, and geo-mimetic work operates in a post-representational regime" (Gissen, 2011, p. 456), by promoting an architectural interpretation that, while considering all the systemic processes and exchanges involved, de-emphasises physical interrelations to focus on a specific formal archetype and its symbolic power. And in this way, it offers the house, in its poetic expression, not only as a device to tackle urgent environmental issues but mainly as a true and realizable "promise of happiness" (Leveratto, 2021, p. 210). A promise probably utopian and certainly far from being perfect, given its inherent susceptibility to failure, which, however, from a political point of view, is even more important than its actual realization. Not only to provide a historically grounded framework for future explorations of nature in architecture, but mainly to promote a more-than-human vision of the world that could be socially accepted and, in so doing, challenge the current model of development in ways that could be increasingly culturally perceived. By showing how, for instance, a house may be a means to adapt oneself to the natural order rather than a tool to transform it, and how biodiversity, besides being a scientific concept, may also represent the most beautiful way of inhabiting the world that one may imagine.

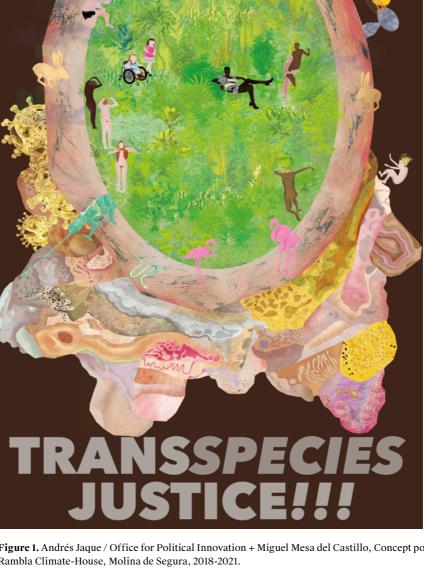


Figure 1. Andrés Jaque / Office for Political Innovation + Miguel Mesa del Castillo, Concept poster of the

### References

Ambasz, E. (1972). *Italy. The New Domestic Landscape*. The Museum of Modern Art.

Ayers, A. (2022, April 26). Rambla Climate House by Andrés Jaque and Miguel Mesa del Castillo Clavel. *Architectural Record*. <a href="https://www.architecturalrecord.com/articles/15628-rambla-climate-house-by-andr%C3%A9s-jaque-and-miguel-mesa-del-castillo-clavel">https://www.architecturalrecord.com/articles/15628-rambla-climate-house-by-andr%C3%A9s-jaque-and-miguel-mesa-del-castillo-clavel</a>

Braidotti, R. (2013). The Posthuman. Polity Press.

Brand, S. (1968). Whole Earth Catalog. Santa Cruz.

Buckminster Fuller, R. (1969). *Operating Manual for Spaceship Earth*. Simon & Schuster.

Buell, L. (1995). *The Environmental Imagination. Thoreau Nature Writing and the Formation of American Culture*. Harvard University Press.

Carboni, M., & Radice, B. (2002). *Ettore Sottsass. Metafore*. Skira. Clavel. *Architectural Record*. <a href="https://www.architecturalrecord.com/articles/15628-ramblaclimate-house-by-andr%C3%A9s-jaque-and-miguel-mesa-del-castillo-clavel">https://www.architecturalrecord.com/articles/15628-ramblaclimate-house-by-andr%C3%A9s-jaque-and-miguel-mesa-del-castillo-clavel</a>

Clément, G. (2003). Manifeste du Tiers paysage. Éditions Sujet/Objet.

Crutzen, P. J. (2002). Geology of Mankind. *Nature*, *415*(23). https://doi.org/10.1038/415023a

Edelman, B. (1984). La Maison de Kant. Payot.

Emerson, R. W. (1836). Nature. James Munroe and Company.

Gissen, D. (2011). The Architectural Reconstruction of Nature. In S. Allen, & M. McQuade (Eds.), *Landform Building. Architecture's New Terrain* (pp. 456-465). Lars Müller.

Haraway, D. J. (2016). *Staying with the Trouble. Making Kin in the Chthulucene*. Duke University Press.

Jaque, A., Otero Verzier, M., & Pietroiusti, L. (2021). *More than Human*. Het Nieuwe Instituut.

van Lengen, J. (1980). Manual del Arquitecto Descalzo. Editorial Concepto.

Leveratto, J. (2021). *Posthuman Architectures. A Catalogue of Archetypes*. ORO Editions.

Lowenhaupt Tsing, A. (2015). *The Mushroom at the End of the World. On the Possibility of Life in Capitalist Ruins*. Princeton University Press.

NEB High-Level Round Table. (2021, June). *New European Bauhaus Concept Paper*. <a href="https://new-european-bauhaus.europa.eu/system/files/2021-07/2021-06-30\_New\_European\_Bauhaus\_Concept\_Paper\_HLRT\_FINAL.pdf">https://new-european-bauhaus.europa.eu/system/files/2021-07/2021-06-30\_New\_European\_Bauhaus\_Concept\_Paper\_HLRT\_FINAL.pdf</a>

Roudavski, S. (2018). Notes on More-than-Human Architecture. In G. Coombs, A. McNamara, & G. Sade (Eds.), *Undesign* (pp. 24-37). Routledge.

Serres, M. (1992.) Le Contrat Naturel. Flammarion.

Stengers, I. (2015). *In Catastrophic Times. Resisting the Coming Barbarism*. Open Humanities Press.

Studio Other Spaces. (2021). *Future Assembly*. <a href="https://studiootherspaces.net/futureassembly/">https://studiootherspaces.net/futureassembly/</a>

Toepfer, G. (2011). Historisches Wörterbuch der Biologie. Springer Verlag.

Udvardy, M. F. D. (1959). Notes on the Ecological Concepts of Habitat, Biotope and Niche. *Ecology*, 40(4), 725-728.

Wakkary, R. (2021). *Things We Could Design. For More Than Human-Centered Worlds*. The MIT Press.

Worster, D. (1995). *Nature's Economy. A History of Ecological Ideas*. Cambridge University Press.



# **BIOGRAPHIES**

### Elena Baharlouei

She graduated in Interior and Spatial Design at Politecnico di Milano. She has been Design Intern at Labirint - Laboratory of Innovation and Research on Interiors - Department of Design, Politecnico di Milano. Former Designer at Fluid Motion Architects.

elena.baharlouei@mail.polimi.it

### Nicolas Bailleul

Since October 2020, he's a PHD candidate at the AIAC Laboratory (University Paris 8), under the supervision of Patrick Nardin (MCF) and co-supervision with Gwenola Wagon (MCF). Title of the thesis: *The Bedroom. A Space of Contained Creation*. Through the creation of documentary films, installations, and performances, his work is defined by the use, appropriation, collection, and exploration of platforms, virtual worlds, connected spaces, and the web's uncertain logics and geographies. By attempting to concretely depict what unfolds in supposedly unreal, invisible, and inaccessible places, he aims to bring forth contemporary issues related to creation, sociology, economy, and ecology.

bailleul.n@gmail.com

### **Anna Barbara**

She is Associate Professor in Architecture and Interior Design at Design Department, Politecnico di Milano. President of POLI.design; Member of the Board of Directors of the World Design Organisation; Co-founder of the Global Design Futures Network; Scientific coordinator (with Venere Ferraro) of the D\Tank, Design Department, Politecnico di Milano. Graduated in Architecture at Politecnico di Milano, she taught at Tsinghua University, Academy of Art and Design, Beijing (China); Kookmin University, School of Architecture, interior Design and at Master Brain 21 (South Korea); and in universities in USA, France, Thailand, Brazil, Jordan, UAE, India, etc.

She was Foundation Fellow 2000 at Hosei University in Japan, Special Mention of Borromini Prize 2001, selected by Archmarathon 2018, selected ADI-Index 2019, 2023, Special Mention Fedrigoni Top Award – Large Format Communication, 2023; Eccellenze della Lombardia 2019, 2023.

anna.barbara@polimi.it

### Michela Bassanelli

Ph.D., she is an Assistant Professor in Interior Architecture and Exhibition Design at Department of Architecture and Urban Studies, Politecnico di Milano. Her research focuses on domestic interiors, museography and exhibition design, and practices of disseminating collective memory through a multidisciplinary theoretical approach. Among her publications: Abitare oltre la casa. Metamorfosi del domestico (ed., 2022); Covid Home. Luoghi e modi dell'abitare, dalla pandemia in poi (ed., 2020); Oltre il memoriale. Le tracce, lo spazio, il ricordo (2015).

michela.bassanelli@polimi.it

### **Gerhard Bruyns**

He is an architect and urbanist and an associate professor of Environment and Interior Design at the Hong Kong Polytechnic University School of Design in Hong Kong. He is the PhD coordinator, the Deputy Specialisation Leader of Transition Environmental Design, and the Discipline Leader of Environmental and Interior Design.

He holds a PhD and MSc from TU Delft, the Netherlands. His research deals with the aspects of spatial forms and how typologies of use impact behaviour through the formal expression of space. This relates to the societal conditions of cities whose landscapes are compressed by speculation and excess. He has published research in journals, conferences, and edited volumes, with the most recent being a Springer-published editorial collection on Design Commons.

gerhard.bruyns@polyu.edu.hk

### **Ece Canlı**

She is a researcher and artist whose work intersects body politics, design performativities and gendered reproduction of material regimes. She holds a PhD in Design from the *University of Porto* (PT) and is a founding member of the *Decolonising Design Group*. She is currently a full-time researcher at *CECS (The Communication and Society Research Centre)* in the *Cultural Studies* cluster at the *University of Minho* (PT) where she investigates spatial, material and technological

conditions of the criminal justice system, queer incarceration, penal design and abolition feminism. As a researcher and educator, she lectured and published internationally on queer materialities, critical making and penal design. She is a member of the *Carceral Geography Working Group (CGWG)* (UK), *AtGender* (NL) and SOPCOM (PT) research entities. As an artist, she works with extended vocal techniques and electronics, producing sound for staged performances, exhibitions and films both in collaborations and as a soloist.

### António Carvalho

ececanli@ics.uminho.pt

PhD degree in Architecture with a thesis on housing design for older people. Associate professor at Politecnico di Milano, where he teaches how to design inclusive and age-friendly environments. His research interests are age-friendly housing, intergenerational spaces, inclusive environments, shared urban space, universal design, neighborhood green spaces, placemaking. Antonio Carvalho is an awarded practising architect and urban designer who runs his own architectural practice in Lisbon since 1988, with extensive built work in Portugal.

antonio.dasilva@polimi.it

### **Tiangin Chen**

PhD candidate at AUID, Politecnico di Milano, her research interest is focused on the age-appropriate architectural design in Covid-19 era.

tiangin.chen@polimi.it

### **Veronica Ching Lee**

She is a Hong Kong born interior and architectural designer and researcher. With an MSc in Architecture from the TU Delft, and a BA in Environment and Interior Design from The Hong Kong Polytechnic University, her research background and interest lies in urban interiority and the negotiation of territories from an interdisciplinary approach. Her master thesis *The interior is the exterior; the exterior is the interior* deals with the negotiation of territories between the *public* and the *private* in the hyperdense city of Hong Kong, seeking a theoretical approach to redefine and understand the complex relations between inhabitants and the collective urban city. Her PhD research extends the discussion of the master thesis and further challenge the conventional concepts of interiority and exteriority and the public-private dichotomy from a perspectivist approach.

### **Sofia Cretaio**

PhD student in Management, Production, and Design at the Polytechnic of Turin. Her research focuses on using data to innovate spatial and organizational dynamics in the workplace, fostering safety and sustainability. She has a Master's Degree in Systemic Design and she is a member of the Innovation Design Lab and the Graphicus magazine.

sofia.cretaio@polito.it

### **Davide Crippa**

He is a senior researcher at Università luav di Venezia, where he is also director of the Master in Innovation Design Management. He obtained a PhD in Architecture and Interior Design in 2007 and has taught at the Milan Polytechnic and the New Academy of Fine Arts in Milan. Head of the ADI designer commission until 2012, he writes articles and publishes books on theory and criticism of the project, always projecting his attention towards constantly evolving scenarios. In 2004 he founded Ghigos studio and, since then, has carried out both theoretical research and projects awarded in international competitions. In particular, he is now investigating the potential of interaction design and new digital fabrication technologies from a circular economy perspective.

dcrippa@iuav.it

### Jiarui Cui

He is a PhD candidate, Department of Architecture and Urban Studies at Politecnico di Milano, Italy. With a background in architecture and interior design, Jiarui has pursued academic research and practical projects in both China and Italy, providing a rich, cross-cultural perspective on spatial design and urban development. His primary area of research focuses on the *Pro-*

ductive Environment, specifically exploring the redefinition of spaces designated for production in a contemporary context. Through his studies, Jiarui aims to unravel the complexities of how spatial configurations and urban designs influence, and are influenced by, the evolving nature of production in modern societies. His hands-on experience in architecture and interior design projects enhances his academic inquiries, offering practical insights into the theoretical frameworks he examines. Jiarui's interdisciplinary approach leverages both qualitative and quantitative methods, blending architectural design, urban studies, and sociocultural analysis.

jiarui.cui@polimi.it

### Silvana Donatiello

She is a research fellow in Industrial Design at University of Naples Federico II. Her research focuses on ecological transition, with a specific focus on social design, Nature Based Solutions, digital manufacturing and community-based systems. She has a Bachelor's Degree in Architecture and an international Master's Degree in Design for the Built Environment from the University of Naples Federico II. She has been a visiting student at the University of Applied Sciences Fachhochschule Potsdam, Germany.

silvana.donatiello@unina.it

### **Daniel Elkin**

He is a researcher and designer specializing in spatial agency research, agency driven design, and housing science. He is an associate professor and the Deputy Discipline Leader of the Department of Environment and Interior Design at The Hong Kong Polytechnic University School of Design. Educated at Cranbrook Academy of Art (MArch) and the University of Cincinnati (MArch, BSArch), Mr. Elkin's career spans between sociological research, architecture, product design, and activism. Elkin has established scholarship in spatial agency research and housing science, branches of social and spatial research concerned with individual and collective decision making, particularly regarding housing acts and artifacts. daniel.k.elkin@polyu.edu.hk

### Raffaella Fagnoni

She is full professor of Design at Università luav di Venezia, where she teaches design laboratories and civic space design. She also directs the PhD school in Science of Design. She has lectured abroad, in Iran and China, and has coordinated local and international research groups, both public and privately funded. Her research topics focus on design for social impact, service design for public interests, social innovation, reuse and recycling, and design for sustainability, with the aim of intervening in emerging issues through active stakeholder involvement and the enhancement of local heritage. She is focused on the ongoing role of design in contemporary society, considering environmental emergencies and the state of alert in which our planet finds itself, working on the circular economy, local territory, waste recovery, and care for people and habitats. rfagnoni@iuav.it

### Mariarita Gagliardi

She graduated with honours in the international master's degree DBE Design For The Built Environment at the University of Naples Federico II. She is currently a full-time research fellow in industrial design at the University of Naples Federico II. She is specialised in the field of digital manufacturing and and parametric design, participating in several international workshops. Her research topics focus on the field of Nature-Based-Solutions (NBS) and IoT (internet of things). mariarita.gagliardi@unina.it

### Vanessa Galvin

She is a lecturer in the Department of Interior Architecture at the School of Design and Built Environment, Curtin University. She completed her PhD in Architecture: History and Theory at the University of Western Australia. Her dissertation is theoretical, and it adopts a Foucauldian approach to the history of the domestic interior. The research extends to questions of inhabitation that include notions of subjectivity and the processes of self-formation as they relate to the built environment. In addition, her research often explores the counter-positioning of fictional and imagined regimes against empirical bases for understanding and managing domestic environments.

v.galvin@curtin.edu.au

### **Guillaume Guenat**

He is a PhD student at the Institute of social sciences at UNIL, where he's working on a thesis about the social History of video games practices in Romandy, directed by Prof. Gianni Haver. Graduated in political science, he focuses his research on the social, political and historical dimensions of leisure, games, media and images.

quillaume.guenat@unil.ch

### Cyrus Khalatbari

He is an artist, designer and PhD candidate of the joint program between the Geneva Arts and Design University (HEAD – Genève, HES-SO) and the Swiss Federal Institute of Technology (EPFL). Inside his PhD, Cyrus' bridges ethnographic fieldwork, Science and Technology Studies (STS) with arts and design methodologies in order to address, at the level of the Graphical Processing Unit (GPU), the ecological implications of computing power and the digital.

### **Nicholas Thomas Lee**

PhD, Architect MAA, he is an Assistant professor at the Institute of Architecture and Design, Royal Danish Academy – Architecture, Design, Conservation. With an academic and professional background in both architecture and design, his research interests occupy the fertile domain between these disciplines, with a particular focus on domestic architecture. He is specifically concerned with *In-between places* within, thresholds between, and the morphology of domestic land-scapes. As a core scholar at *STAY HOME* and the Center for Interior Studies, his post doctorial research project, entitled *Dwelling in a Time of Social Distancing*, examines the unprecedented demands that the Covid-19 pandemic has placed on the private home and its architectural arrangement. He actively works with a *Research by Design* method, whereby architectural installations and exhibitions are central to both knowledge production and dissemination.

\*\*nlee@kglakademi.dk\*\*

### **Jacopo Leveratto**

PhD Architect, he is a senior lecturer at the Department of Architecture and Urban Studies of Politecnico di Milano, where he focuses his research on radical forms of habitability and posthuman architecture. Local Principal Investigator of the European Research *en/counter/points* (2018-22) and head of Walden Architects during the last Seoul Biennale on Architecture and Urbanism (2021), he is now a coordinating member of the Italian National Biodiversity Future Center (2022-25), and the National Coordinator of the research project PRIN *DT*^2 (2023-25).

Besides having authored numerous publications in peer-reviewed journals and edited volumes, he published *Posthuman Architectures: A Catalogue of Archetypes* (ORO Editions, 2021).

jacopo.leveratto@polimi.it

### **Andrea Navarrete**

She recently gained a doctoral degree from the School of Design at The Hong Kong Polytechnic University. Her research focuses on the promotion of autonomy and decoloniality through design. After graduating from a bachelor of Industrial Design in Mexico – where she investigated design's impact and its possible future within a Latin American context – she realized that the role of design in the ruling economic dynamics promotes unsustainable ways of production and consumption, leading her to study a MA in Social Design & Arts as Urban Innovation in Vienna.

She has worked with participatory processes through design workshops, creating synergies toward endogenous forms of development, design and autonomy.

andrea.navarreterigo@connect.polyu.hk

### Lucrezia Perrig

She holds a Bachelor's degree in philosophy from Saint Louis University, and a Master's degree in political science from Lausanne University. She wrote a dissertation on visual arts students' relationship with politics, and then spent two editions of the feminist festival Les Créatives in Geneva, where she co-wrote a guide to gender equality in culture. <a href="Lucrezia.perrig@unil.ch">Lucrezia.perrig@unil.ch</a>

### Vera Sacchetti

She is a Basel-based design critic and curator. She specializes in contemporary design and architecture and serves in a variety of curatorial, research and editorial roles. Recently, she co-founded *Fazer*, a new design magazine in Portugal; co-initiated the *Design and Democracy* platform (2020–); and served as program coordinator of the multidisciplinary research initiative *Driving the Human: Seven Prototypes for Eco-social Renewal* (2020–2023). Sacchetti teaches at HEAD Geneva and Design Academy Eindhoven, and in 2020 joined the Federal Design Commission of Switzerland. vera.vilardebo-sacchetti@hesge.ch

### Paolo Tamborrini

Full professor in Design, in 2015 he co-founded the Innovation Design Lab. He has coordinated numerous research in the field of design and communication for sustainability. He is the director of "Graphicus - designing communication", a magazine that tells the world of communication involving authors of distant but connected disciplines. paolo.tamborrini@unipr.it

### Annapaola Vacanti

She is a junior researcher at Università luav di Venezia, where she teaches in design laboratories for the curricula of Product design and Interior design of the master degree design courses. She obtained a PhD in Design at the University of Genoa in 2022. Her research focuses on Interaction Design and the opportunities offered by data-driven tools and Artificial Intelligence for design, exploring the challenges that lie at the intersection between technology, human factors, and sustainability issues. She is working within the iNEST (Interconnected Nord-Est Innovation Ecosystem) project, funded by the National Recovery and Resilience Plan (PNRR). Alongside her academic career, since 2018 she has been art director and organizer of TEDxGenova, an autonomous event operating under official TED license for the local dissemination of valuable ideas.

avacanti@iuav.it

### Jingya Zhou

PhD candidate at AUID, Politecnico di Milano, her research interest is focused on curability and impact of architectural space design on depression in older people.

jingya.zhou@mail.polimi.it





**Progetto Grafico**From 2003, the only Italian magazine totally dedicated to graphic design



**CDPG Folders** 

Booklets dedicated to the AIAP's Archives Funds and personalities of Design History.



**AWDA** 

The International AIAP Women in Design Award



CAMPO GRAFICO 1933/1939
The Birth of Graphic Design

AIAP PUBLISHES BOOKS, MANUALS, POSTERS, A MAGAZINE AND A JOURNAL. GRAPHIC DESIGN, COMMUNICATION DESIGN, DESIGN.















## MUSEO DELLA GRAFICA AIAP CDPG

## FATE SPAZIO! STIAMO PER USCIRE.

Aiap CDPG, the Graphic Design Documentation Centre.
Working to collect, catalogue, archive, enhance and promote any documents related to graphic design and visual communication.
These documents (originals as well layouts of projects, books,

posters, prints, catalogues, correspondence, photographs) help reconstruct the history of graphic design in Italy and support research and educational activities, as it is the CDGP's intention to make these documents widely available.





### Aiap

via A. Ponchielli, 3, Milano aiap.it — aiap.it/cdpg @Aiap\_ita



### PAD. Pages on Arts and Design

International, peer-reviewed, open access journal ISSN 1972-7887

#25, Vol. 16, December 2023

www.padjournal.net

