CARLO
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—

CITY PARADE

THE 13TH INTERNATIONAL ARCHITECTURE BIENNALE OF SÃO PAULO

24.01.2021

1 SUMMARY OF THE CURATORSHIP PROPOSAL

Our curatorship proposal for the International Architecture Biennale of São Paulo rests on a simple premise: the post-COVID reconstruction of the city must begin in informal settlements. The people who suffered the most from the pandemic – in terms of infection rates, economic devastation, and political disenfranchisement – were those living on the margins. Moreover, settlements like favelas are projected to dominate the future of urbanization, demanding that we devise new methods to support, integrate, and empower their residents.

Our Biennale, devised by Carlo Ratti, the Massachusetts Institute of Technology (MIT), and architect and urbanist, Harvard GSD Loeb Fellow, Washington Fajardo, in collaboration with Arq.Futuro founders Marisa Moreira Salles and Tomas Alvim, seeks to help transform the way we can reconnect informal settlements with the broader urbanization with a new technological paradigm. Digital technologies can give us new tools to both manage and empower informal communities scattered around the city, beginning with a revolutionary deployment of 3D scanning.

Researchers will 3D scan and sense a selection of sites (Jardim Guarani, Jardim Pantanal, Parque Pinheirinho D'Água, Jardim Lapenna and Parque Novo Mundo) that will eventually become the venues for our Biennale. We will generate thousands of terabytes of data to create detailed 3D maps, which can help us understand some of the neighborhoods' complex terrain, connect their residents to the mainstream economy and city services, and create a more livable urban fabric for the city of tomorrow. Involving local and international exhibitors and participants, we will delve deep into each of 2022 Biennale's five thematic axes (information, democracy, ecology, bodies, memory).

Some twenty years after Medellin's innovative approach to heal informality, we think times are ripe for a new paradigm, which could come out of the 2022 Biennale – what might be known in the future as the "São Paulo model".

The title of our proposed Biennale is City Parade, reflecting the dynamic, public spectacle of an exhibition distributed across five neighborhoods – with the Avenida Paulista as a central hub where all of them come together. Our research will circulate around the metropolis in an unconventional "parade route," a common ground of connection and ideation that unites visitors and residents who would not otherwise have reason to stand side-by-side. It is only by seeing the city center from the perspective of the favelas, and vice versa, that we will have the right vantage point to reconstruct São Paulo as a comprehensive whole merging formality and informality. One City.

Using LiDAR 3D Laser Scanning technology, we can create a geometric digital twin of the favela

BRtech3D

2 CURATORIAL PROPOSAL

BACKGROUND: RECONSTRUCTING SÃO PAULO

The post-COVID reconstruction of São Paulo yields an opportunity for us to hone in on its informal communities. To reconstruct the city, we must begin in the favelas. The people who suffered the most from the pandemic – in terms of infection rates, economic devastation, and political disenfranchisement – were those living on the margins.

The accelerating urbanization of the 21st century is leaving governmental housing policies in most countries struggling to catch up with the influx of new arrivals. The resulting urban fabric is informal, with makeshift communities springing up in unexpected sites. For all our futuristic reveries, the city of tomorrow could look a lot like Paraisópolis.

As curators of the International Architecture Biennale of São Paulo, we would aim to accelerate the urban regeneration process of informal settlements. Through an array of exhibitions, forums, and architectural interventions, Paulistas from different communities will be at the center of the action, using new technology as a medium to imagine and execute a new urban scenario.

This curatorial direction follows years of progress, enacted across Brazil, to improve favelas' living conditions and empower their residents after decades of marginalization and indifference. Today, we are at an inflection point: recent political changes and the devastation of the pandemic threaten to reinforce old inequities, but cities can set a new course in the uncharted world of the post-COVID "new normal."

PROPOSED THEME: CITY PARADE

The proposed theme, City Parade, was born out of our desire to reconnect the informal communities that struggle on São Paulo's margins – physical or symbolic – with the core of the formal city.

Digital technologies can give us new tools to both manage and empower informal communities scattered around the city, beginning with a revolutionary deployment of 3D scanning. Researchers will 3D scan and sense a selection of sites (Jardim Guarani, Jardim Pantanal, Parque Pinheirinho D'Água, Jardim Lapenna, Parque Novo Mundo, Jardim Colombo) that will eventually become the venues for our Biennale. We will generate thousands of terabytes of data to create detailed 3D maps, which can help us understand favelas' complex terrain, connect their residents to the mainstream economy and city services, and create a more livable urban fabric for the city of tomorrow. Sharing the datasets in an open way, we will organize an open call for architects, designers and artists to analyze and visualize the information we collect and translate them into design interventions.

Some twenty years after Medellin's innovative approach to heal informality, we think times are ripe for a new paradigm, which could come out of the 2022 Biennale – what might be known in the future as the "Sao Paulo model".

Interventions in informal settlements will also be shown at the core of the formal city, through an Urban Parade in the city center. We believe looking at the urban center through the architectural and social perspective of the favelas (and vice versa) could yield important revelations about the entire city – for planners and residents alike. The word "parade," with its connotations of public spectacle and movement – exemplifies how we plan to communicate such revelations to the Biennale audience. Our research will circulate around the metropolis in an unconventional "parade route," a common ground of connection and ideation that unites visitors and residents who would not otherwise have reason to stand side by side.

To achieve this effect, City Parade will be distributed in a wide range of locations in São Paulo, from Jardim Guarani to Parque Novo Mundo to Avenida Paulista. Activities and exhibits would underline the cultural specificity of their respective neighborhoods, and simultaneously suggest new ways to connect with the broader city

City Parade will also be defined by an ethos of local production. Although exhibitors and designers will come from across the world, the majority of the exhibition materials are expected to be produced locally – with the help of local artisans, manufacturers, and the 3D-printing of components that were conceived abroad.

The proposal is a collaboration between professor of urban technologies and planning Carlo Ratti, the Massachusetts Institute of Technology (MIT), and design and innovation office Carlo Ratti Associati (CRA). They are joined by Washington Fajardo, architect and urbanist, Harvard GSD Loeb Fellow, and a team of data scientists and architects. The team can also count on the collaboration of Arq.Futuro founders Marisa Moreira Salles and Tomas Alvim. Together, this curatorial unit seeks to envision the future of cities through acknowledging, investigating, and empowering their informal fabric.

We will begin with information, considering how residents can benefit from our 3D maps – and navigate difficult questions of data ownership. The importance of democracy will be embedded into the foundations of our exhibition pavilions – some can be built as permanent public spaces that will encourage physical encounters, thereby cutting through social segregation, long after the Biennale ends. To pursue a better relationship with ecology, we propose explorations in urban farming and experiments with organic building materials that can return to the earth after temporary exhibits close.

The COVID-19 pandemic reminds us that our individual bodies depend on the quality of our public health, so we hope to mount a variety of exhibits that consider possibilities for improving health infrastructure. Finally, we will work with professional storytellers to explore local cultures, share the testimonies of residents, and reveal the multiplicity of memory in São Paulo's favelas. To integrate informal settlements into the future of the city, we must amplify the voices that have gone unheard in its past.

PROPOSED PROGRAM PORTRAYED THROUGH FIVE MAIN AXES

1.   INFORMATION

Information embodies the basis of our curatorial approach – rather than imposing our vision onto the sites, we want to start with a comprehensive analysis of the favelas, then use our findings to conceptualize a string of participatory design initiatives in the form of both temporary events and long-term public facilities that would remain in the city after the Biennale.

Digital technology, from 3D scanning to the Internet of Things, offers us methods to collect and analyze information about the vibrant, if uncoordinated, informal settlements in Brazil's largest city. Combining our technology with residents' local knowledge, we can devise new strategies and inspire new directions for favelas.

Work along these lines has already been conducted by the curatorial team, in collaboration with MIT, in favelas like Rocinha in Rio de Janeiro. Researchers used 3D to capture every inch of the 1.5 square-kilometer neighborhood, generating hundreds of terabytes of data that could help transform public health, community integration, modular construction, or 5G coverage.

After using similar methods to investigate São Paulo's physical, cultural, and social spaces, we will organize an open call for architects, designers, and artists to analyze and visualize the information we collect. Their findings will materialize into a wide range of exhibitions across the city. A further step could be taken through collaborations with local institutions on data collection and literacy, using these tools to enforce action and social change.

The Biennale would also negotiate issues of data management and protection, ensuring that the favelas' residents are the primary beneficiaries of the information generated. This would give us the chance to test related technologies – like blockchain, which enables certified transactions within a community – and present the results. Conferences and forums could allow us to deliberate the questions of data sharing, with inputs from both industry experts and public audiences to find solutions from the bottom up.

2. ECOLOGY

If digital technologies enliven the city, the convergence of artificial and natural elements promises urban regeneration on an even greater scale. City Parade will explore how natural organisms can be seamlessly incorporated into the built environment, responding to the economic crisis of the pandemic and satisfying our "biophilia," the innate yearning for interaction with other forms of life.

The various curatorial projects could reflect on the nature-city dynamic from different perspectives. For example, integrating agriculture into the city is not only a step towards relieving food security problems, it could also provide new job opportunities to Paulistas – especially the residents of the informal settlements – whose livelihoods were interrupted by COVID-19.

Inspired by the work of local groups and associations, our curatorship aims to extend research and conversation about urban agriculture to a city-wide scale. Photo exhibitions, for example, can introduce the public to prototypical farms that are already operating in São Paulo. On a deeper level, their knowledge of the terrain could lend itself to fruitful conferences and workshops to discuss the cultivation of regional plants and crops. We can help identify suitable sites with 3D mapping, choosing locations to help pursue sustainability, beautify the living space, and help consolidate the Paulista identity.

The Ecology axis could also manifest itself through a seamless synthesis between organic elements and technology. Following the philosophy of a Circular Economy, City Parade proposes the comprehensive employment of innovative new materials – orange peel, mycelium, even coffee grounds – to construct temporary installations and pavilions that return to the earth when the exhibition ends. By endeavoring to minimize its environmental impact, City Parade, would hopefully contribute to São Paulo's transition into a low-carbon city.

3. DEMOCRACY

Since Medellin pioneering experiments some 20 years ago, the most convincing interventions to improve Latin America's informal settlements were those that produced new public spaces, venues for encounters that can break social segregation and reinforce democracy. Public space leaves people from different backgrounds with no choice but to share the same sidewalks – inevitable collisions that ensure that they interact with one another.

We will strive to follow the example of the city of Medellin, with its famous cable cars directing citizens to new libraries and public parks in formerly marginal places. However, thanks to a detailed 3D knowledge of the city, we will be able to develop a new, fine-grain approach. We will be able to enact almost surgical interventions in the dense urban fabric of informal settlements, creating new public spaces without creating too much disruption- what might become known in the future as the "Sao Paulo model."

City Parade's strategy to open up these settlements forces the society to address forgotten communities residing there. It could grant a newfound "Right to the city" to Paulistas from different walks of life. We can use 3D scanning and digital fabrication to locate unexpected pockets of land then transform them into settings for installations and conferences. Even after the Biennale's completion, these spaces could continue to serve public functions and foster serendipitous communication among different communities.

Other initiatives will reinforce a bottom-up approach: open calls for placemaking projects could invite parties with or without formal training to submit ideas that would celebrate the uniqueness of individual neighborhoods and incentivize citizens to undertake their own city parades to favelas and other less publicly-appreciated sites.

4. BODIES

City Parade considers Bodies through the lens of public health and well-being. Still today, most cases of tuberculosis in Brazil are recorded in favelas, which contributes to a lower life expectancy relative to the national average By better understanding the urban fabric of informal settlements in 3D, we can plan surgical interventions to make it more healthy – allowing light and air in it according to the standards and regulations of the formal city.

Interactive exhibitions aim to project such discrepancies from past and present, and solicit feedback from citizens of different backgrounds.

Another part of our investigation is anchored in personal safety, another prominent topic of debate in São Paulo. We would attempt to organize panel discussions with architects, urban planners, and Pacto Pelos Cidades Justas to find architectural solutions to the safety issues impacting different neighborhoods
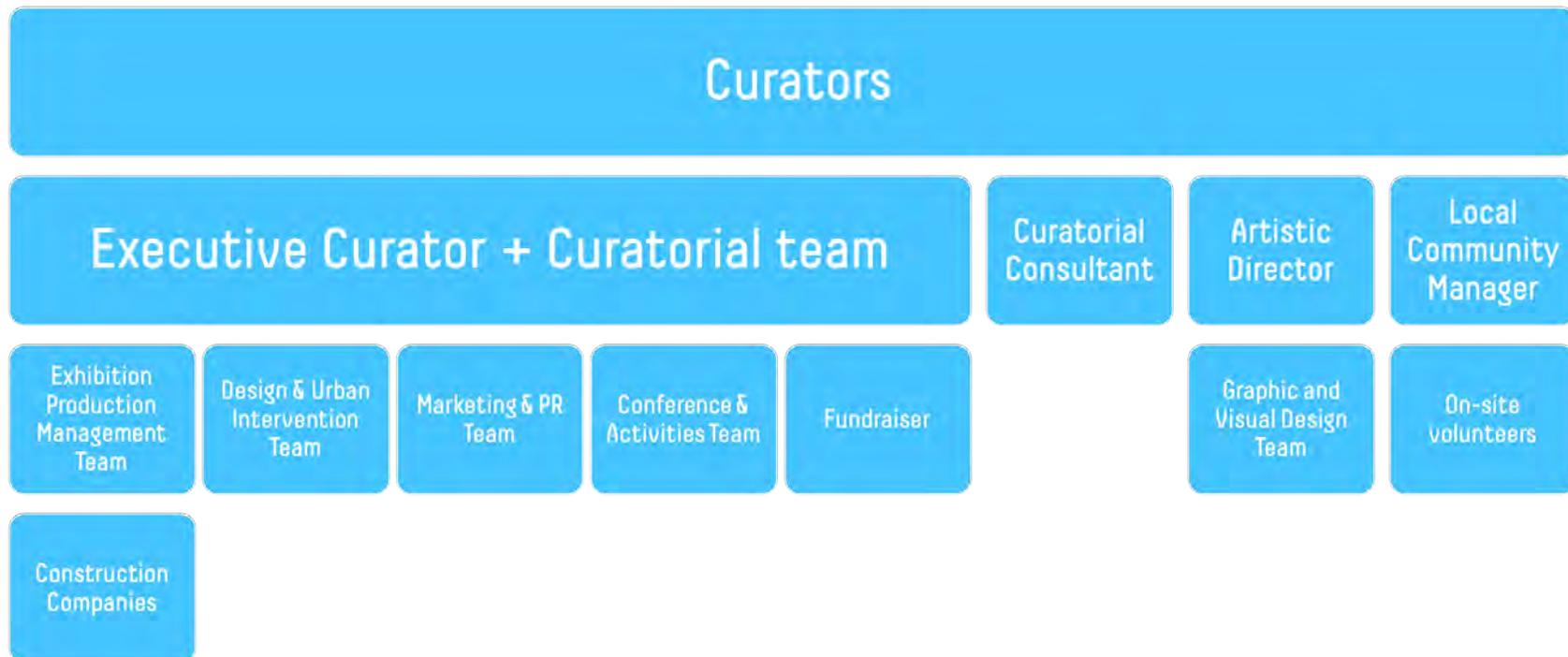
5. MEMORY

All the aforementioned axes culminate in a discourse on São Paulo's collective memory. City Parade aims to shed light on the plurality of memory, as the city's diversity gives rise to many distinct identities and rela-tionships with urban space. Specifically, our work aims to illuminate the memories of favela residents, who have long been marginalized in the master narrative of the city and country. Their informal settlements stretch as far back in time as the 19th century. They have endured constant threats to their culture, even attempts at complete eradication made by the government until the 1970s, but still latent as a method of ur-ban approach.

City Parade would organize an open call for artists, designers, historians, activists, and citizens to create multimedia exhibitions that review the architectural and social development of São Paulo's favelas. Con-tributors would construct a non-binary narrative about these informal settlements- opening up conversa-tion and debate rather than seeking a singular conclusion about favelas' history.

In addition, our curatorship could act as a mediator among citizens through urban storytelling projects. Joining forces with experienced storytellers, we would collect testimonials of individual inhabitants of the favelas and encourage the inter-district and inter-generational exchange of lived experiences, retelling these stories via in-person sessions and creative media to reach the areas where they have been the least heard.

Through the interventions of the Biennale, we hope to investigate how new architectural and design para-digms could revitalize the legacy of the favelas and the city at large, making the past a relevant part of the technologically-augmented reality of the future. Our proposal epitomizes the concept of reconstruction: eschewing "invention" in a vacuum, it builds on a culturally rich and vibrant foundation to derive new mean-ings, build new understandings, and piece together fragments of a society that demands reconstruction be-cause, in the words of American poet Amanda Gorman, is "not broken, but simply unfinished."

City Parade - Organizational Structure

Curators

Executive Curator + Curatorial team | Curatorial Consultant | Artistic Director | Local Community Manager

Exhibition Production Management Team | Design & Urban Intervention Team | Marketing & PR Team | Conference & Activities Team | Fundraiser | | Graphic and Visual Design Team | On-site volunteers

Construction Companies

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EDUCATION

Fulbright Senior Scholar
Tangible Media Group, MIT Media Lab
(Cambridge MA, 2001-2002)

PhD in Architecture (Thesis Title: "Urban Analysis for Environmental Prediction")
The Martin Centre, University of Cambridge
(Cambridge UK, 1998-2001)

MPhil in Environmental Design in Architecture
University of Cambridge
(Cambridge UK, 1995-1996)

MSc Degree (Laurea 110/110 cum laude and dignità di stampa) in Civil Engineering
Politecnico di Torino
(Turin, 1989-1995)

MSc Degree (Diplôme d'ingénieur) in Civil Engineering
Ecole Nationale des Ponts et Chaussées
(Paris, 1989-1995)

High school degree with science concentration (grade 60/60)
Liceo Segrè
(Turin, 1988-1989)

PROFESSIONAL REGISTRATION

Italian Institute of Chartered Engineers
Registration number 7889Y
Architects Registration Board ARB, United Kingdom
Registration number 062794A

Ingénieur de l'Ecole des Ponts et Chaussées, France
Government decree 19 January 1996

CARLO RATTI

An architect and engineer by training, Carlo Ratti practices in Italy and teaches at the Massachusetts Institute of Technology, where he directs the Senseable City Lab. He graduated from the Politecnico di Torino and the École Nationale des Ponts et Chaussées in Paris, and later earned his MPhil and PhD at the University of Cambridge, UK.

His work has been exhibited worldwide at venues such as the Venice Biennale, the Design Museum Barcelona, the Science Museum in London, GAFTA in San Francisco and The Museum of Modern Art in New York.

Carlo has been featured in Esquire Magazine's '2008 Best & Brightest' list and in Thames&Hudson's selection of '60 innovators' shaping our creative future. In 2010 Blueprint Magazine included him as one of the '25 People Who Will Change the World of Design', Forbes listed him as one of the 'Names You Need To Know' in 2011 and Fast Company named him as one of the '50 Most Influential Designers in America'. He was also featured in Wired Magazine's 'Smart List 2012: 50 people who will change the world'. In 2012 Carlo was selected with his design office as one of the top three young architects for the 'Premio Fondazione Renzo Piano'.

Carlo has been a presenter at TED 2011, program director at the Strelka Institute for Media, Architecture and Design in Moscow, curator of the 2012 BMW Guggenheim Pavilion in Berlin, and was named Inaugural Innovator in Residence by the Queensland Government. The Italian Minister of Culture also named Carlo as a member of the Italian Design Council - an advisory board to the Italian Government that includes 25 leaders of design in Italy. He is currently serving as a member of the World Economic Forum Global Agenda Council for Urban Management and is a curator for the Future Food District Pavilion for Expo 2015 in Milan.

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DISTINCTIONS

Wired magazine's Smart List
Named in '50 people who will change the world'
(2012)

Renzo Piano Foundation
Selected to design the extension of a school in Cavezzo:
Carlo Ratti Associati
(2012)

TED
Invited Speaker: Carlo Ratti on 'Architecture that
Senses and Responds'
(2011)

Thames & Hudson 60th anniversary publication
Named one of 60 global innovators
(2010)

TIME magazine
Best Invention of the Year: Digital Water Pavilion
(2008)

Esquire magazine
Named one of 'Best & Brightest'
(2008)

POSITIONS AND COMMITTEES

Associate Professor of the Practice
MIT SENSEable City Laboratory
(Cambridge MA, 2007 - present)

Partner
Carlo Ratti Associati (architecture and design practice)
(Turin, 2002 - present)

Singapore Research Professor
SMART Research Program / MIT Department of Urban
Studies and Planning
(Singapore, 2013 - present)

Co-Founder and Consultant
Superpedestrian (urban mobility start-up)
(Cambridge MA, 2013 - present)

Adjunct Associate Professor
National University of Singapore
(Singapore, 2013 - present)

Director
Italy Program, MIT International Science and Technology
Initiatives (MISTI)
(Cambridge MA, 2009 - present)

Advisor
United Nations Interregional Crime and Justice Research
Institute (UNICRI)
(Turin, 2010 - 2011)

Innovator in Residence
Queensland Government Minister of Education and the
Arts
(Brisbane, 2008)

Lead PI
MIT - TU Delft AMS Initiative
(2013 - present)

PI in Residence
MIT Singapore - SMART
(2013 - present)

Member of Selection Committee
Bloomberg Philanthropies' 2013-2014 Mayors Challenge
(2013 - present)

Member of Advisory Board
Smart City World Congress, Barcelona, France
(2013 - present)

Member of Advisory Board
Fabrica, Treviso, Italy
(2013 - present)

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Carlo Ratti Associati
Company profile - Long version

Carlo Ratti Associati is an international design and innovation office based in Turin, Italy, with branches in New York and London. Drawing on Carlo Ratti's research at the Massachuset-ts Institute of Technology (MIT), the office is currently involved in many projects across the globe, embracing every scale of intervention - from furniture to urban planning. The work of the practice merges design with cutting-edge digital technologies, so as to contribute to the creation of an architecture "that senses and responds".

Among recent projects there are the master plan for MIND-Milano Innovation District (former site of Expo Milan 2015); the 280-meter tall CapitaSpring skyscraper co-designed with BIG in Singapore; the redesign of the Agnelli Foundation HQ in Turin; the requalification of the Patrick Henry military village for IBA Heidelberg in Germany; the Pankhasari retreat in India's Darjeeling; the Italian Pavilion at Expo Dubai 2020 and the "Eyes of the City" section of the UABB Biennale of Architecture and Urbanism of Shenzhen in 2019, co-curated with Politecnico di Torino. Product design projects range from experimental furniture for Cassina to light installations for Artemide, to responsive seating systems with Vitra. CRA is also part of the international task force behind CURA (Connected Units for Respiratory Aliments) producing ICUs with biocontainment during the COVID-19 pandemics.

In all these circumstances, the studio investigated the ways in which new technologies, including digital sensors and portable devices, are changing both the built environment and everyday life. The works of **Carlo Ratti Associati** have been featured in media including The New York Times, The Wall Street Journal, Financial Times, The Guardian, BBC, Wired, Der Spiegel, Corriere della Sera, Domus. The projects of the studio have been exhibited in cultural venues such the Venice Biennale, New York's MoMA, the Istanbul Design Biennial, and many others.

Carlo Ratti Associati is the only design firm whose works have been featured three times in TIME Magazine's "Best Inventions of the Year" list – respectively with the *Digital Water Pavilion* in 2007, the *Copenhagen Wheel* in 201 and Scribit in 2019. In the last years, the office has been involved in the launch of several startups such as Makr Shakr, a startup producing the world's first robotic bar system, and Scribit, the startup behind the write&erase robot.

For further information visit **www.carloratti.com**

About me:	**Washington Fajardo**, Architect and Urbanist

Harvard DRCLAS Visiting Researcher 2019-2020
Loeb Fellow Class of 2019 - Harvard Graduate School fo Design
Former President of Rio World Heritage Institute - IRPH - 2009-2016
Former Mayor's Special Advisor for Urban Issues - 2013-2016
Columnist in O Globo newspaper and El País web journal
Curator of the Brazilian pavilion at Biennale di Venezia 2016

Author and Co-Author of awarded works, such as:

Renewal of "Ver-o-Peso" Complex, in Belém do Pará, Amazon Region
Architectural conception of the Arena Carioca Theater in Pavuna, Rio de Janeiro
Architectural conception of the New Imperator Theater in Méier, Rio de Janeiro
Creator of the public policy to finance historic preservation programs (material and intangible) at Rio de Janeiro waterfront renovation - Porto Maravilha operation
Creator of the "Pro-APAC" grant - public policy Call for restoration and renovation of private historic properties in Rio's Downtown area - Rodrigo Melo Franco de Andrade Award 2014 (Brazil National Heritage Award)
Creator of the Carioca Center for Design at Praça Tiradentes, Rio's downtown.
Creator of the African Heritage Celebration Trail.
Author of books "Urban Transformations of Rio de Janeiro" (2016) and "Avenues of Rio" (2019).

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Qualifications:	Architect and Urbanist, 1997, BA Federal University of Rio de Janeiro - UFRJ

Research Fellow (CNPq), 1997-1999
PROURB – Post-Graduate Program in Urban Planning -
UFRJ Research "Urban Design and Space Structures"
Prof. guidance. PHD Denise Barcellos Pinheiro
Machado
http://lattes.cnpq.br/0606766303842102

Loeb Fellowship Class of 2019
Harvard Graduate School of Design
Visiting Researcher 2020
Harvard David Rockefeller Center for Latin American Studies

Practice:	2017/now DBR Architecture & Design
	2013 / 2016 Mayor Eduardo Paes Urban Issues Special Advisor
	2012 / 2016 President Rio World Heritage Institute (IRPH) Municipality of Rio de Janeiro http://www.rio.rj.gov.br/web/irph
	2009 / 2012 Undersecretary Secretariat for Heritage, Urban Intervention, Architecture and Design Municipality of Rio de Janeiro
	2009 / 2016 President City Council for Cultural Heritage
	2005 / 2008 Consultant in Urban Projects Municipality of Nova Iguaçu – City in Metropolitan Area of Rio de Janeiro
	2005 / 2006 Substitute Professor Architectural Design IV Integrated Atelier I Faculty of Architecture and Urbanism - UFRJ
	1998 / 2008 Private practice as Principal Architect at DBR Architecture & Design http://www.desenhobrasileiro.com
Recent works:	Downtown For All Program (Centro Para Todos) Coordination of public services for the improvement of public space in Rio de Janeiro Downtown area.
	New Imperator Theater Architectural design concept New Imperator (João Nogueira Cultural Center) is a 7.300 m2 new cultural complex in the heart of the neighborhood of Méier, in the North Zone of Rio de Janeiro. It's a mixed cultural venue with a 700 seats theater, 3 cinemas, exhibition areas and a elevated public square. http://www.imperator.art.br/home.html
	Arena Carioca Theater Architectural design concept "Arena Carioca" is 1.800 m2 cultural venue based on a multi-purpose theater and other uses associated. It is a new architecture space to promote cultural life and a community space also. It was plan to became a

new paradigm to the suburbs from Rio de Janeiro. The first Arena - Jovelina Pérola Negra - is in Pavuna neighborhood, in West Zone of Rio. There are three other Arenas using the same concept in other neighborhoods: Madureira, Penha and Guaratiba.

Tiradentes Square Urban Renewal Strategy
Coordination of urban design and urban renewal strategies
Rehabilitation of ancient urban square in downtown area of Rio de Janeiro, finishing the Monumenta Program of IDB and starting new actions to improve sustainable actions of the urban renewal process.
Creation of Design Carioca Center in the area to start process of bring new life to this abandon urban area.

Lapa Legal Urban Renewal
Coordination of Urban design, construction work and revitalization strategies Revitalization of abandon square in front of National Monument of Aqueduct of Carioca in Historical Centre of Rio de Janeiro. A set of different initiatives to improve safety places, universal accessibility and creation of more walkable areas. Basic goal: improve livability of the area.

Other Works:

House TG
with Patricia Fendt 2007
Rio de Janeiro

Exhibition "Concrete '56: The Root of Form"
Exhibition design
Commemorating the 50th anniversary of Concrete Art
With André Stolarski / Tecnopop
Museum of Modern Art 2006
Sao Paulo

Urban Design for Northwest Market
Urban Ideas for Santo Domingo 2003
Santo Domingo
Dominican Republic

Revitalization of the Historic Centre of Belém
Rehabilitation of historical complex and traditional and popular markets –
Ver-o- Peso, Fish and Meat Markets.
Redevelopment of public spaces.
Winning proposal of national design competition
With Flavio Ferreira, Rodrigo Azevedo, Pedro Rivera
1999
Belém

Rua de Santana, 119 Building
Architectural design to social housing in downtown area With Flavio Ferreira, Rodrigo Azevedo, Pedro Rivera 1999
Rio de Janeiro

Awards:

2014
Rodrigo Melo Franco de Andrade Award - Heritage National Award - IPHAN
Pro-APAC Public Policy - support private buildings restorations using public grants selected by design competition

2013
Architecture Design Award
Imperator Renewal- Cultural Center João Nogueira
IAB - Institute of Architects of Brazil - Rio de Janeiro Section
The architecture of the Cultural Center João Nogueira - the abandon cinema
Imperator - was awarded by IAB-RJ in the 50 Annual Award as winner in the
Architecture Design category.

2008
Honorable Mention
Annual Awards of the IAB-RJ Category Residential Single Family House TG
With Patricia Fendt

2007
Second Prize
Built Environment Award
International Architecture Biennale of Sao Paulo
Praça-Escola (Square-School) Program - Municipality of Nova Iguaçu

Second Prize
American School of Rio de Janeiro
Private Competition for new design to headquarters in Barra da Tijuca
With Pedro Évora and Oficina de Arquitetos

Honorable Mention
Annual Awards IAB-RJ
Institutional Category Architectural Design Casa Brazil
Municipality of Nova Iguaçu
With Pedro Évora
2002

Team selected
International Urban Design Workshop
Urban Ideas to City of Santo Domingo
Dominican Republic - Pan American Games Planning

2000
Design Award
International Design Competition to Historical Downtown Areas Project: Gas
Fabric Renewal
Santiago de Compostela - Cultural City of Europe

1999
First Prize
National Competition for Urban Design
Urban Renewal to Historical Complex
City of Belem, State of Para, Amazon Region, North of Brazil Institute of
Architects of Brazil - National Section

Marisa Moreira Salles, editora e designer, é cofundadora da BEI Editora. Criou também as plataformas multimídia Arq.Futuro, voltada para a discussão sobre cidades, e Por Quê? – economês em bom português. Membro do Conselho da Fundação Bienal de São Paulo e do Conselho Consultivo da Reitoria do MIT School of Architecture and Planning, foi jurada da Bienal de Arquitetura de Veneza (2016).

Marisa Moreira Salles, editor and designer, is the co-founder of BEI Editora, a Brazilian publishing house. She is also the co-founder of Arq.Futuro, a think-tank that discusses cities, and Por Quê?, a digital platform dedicated to making Economics related subjects accessible to the general public. Ms. Salles also holds board positions in the São Paulo Art Biennale and in the Dean's Advisory Council of the MIT School of Architecture and Planning. She composed the international jury at the 2016 Venice Architecture Biennale.

Fábio Duarte

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I am a Principal Research Scientist at the Senseable City Lab, and a lecturer at the Massachusetts Institute of Technology, where I manage multi-year, multi-million dollar and multi-department projects, and supervise graduate students, postdoctoral researchers, and data visualization specialists. Data visualization projects I have supervised have received many awards, been mentioned in media outlets such as *The Boston Globe*, *The New York Times*, and *PBS*, and appeared on the cover of *Nature* magazine. Journals in which I have published peer-reviewed papers include *Science Robotics*, *Urban Studies*, *IEEE Internet of Things*, and *Transport Policy*. I am also a professor of urban management at the Pontifícia Universidade Católica do Paraná, Brazil, and have been visiting professor at the University of Twente, Yokohama National University, and the Universidad Politécnica de Cataluña. I have led the consultant team of the mobility plan of Curitiba, Brazil, and have been a consultant in planning and urban mobility for the World Bank for the past seven years. I'm currently working on a book under contract with MIT Press.

Current Academic Positions

2019-today   Principal Research Scientist | Massachusetts Institute of Technology, Senseable City Lab | http://senseable.mit.edu

2019-today   Lecturer | Massachusetts Institute of Technology, Department of Urban Studies and Planning

2015 –2019   Research Scientist | Massachusetts Institute of Technology, Senseable City Lab | http://senseable.mit.edu

2003 – today   Professor, Graduate Program in Urban Management, Pontifícia Universidade Católica do Paraná, Curitiba, Brazil | www.pucpr.br/ppgtu

Visiting Faculty Positions

2017   Honorary Visiting Professor | University of Twente, the Netherlands (fall semester)

2014 - 2015   Research Associate | Harvard Graduate School of Design (one year)

2013 – 2014   Visiting Scholar | Massachusetts Institute of Technology, Department of Urban Studies and Planning (one year) | co-teaching BRT workshop with Christopher Zegras

2012   Visiting professor | Yokohama National University, Japan (fall course)

2010   Erasmus Mundus professor | Universidad Politécnica de Cataluña, Spain (fall course)

Education

2000   PhD in Communication and Culture | Universidade de São Paulo, Brazil | Title: Spatial matrices: architecture, cities, geographies

Visiting PhD fellow | Institut de Géographie at Université Paris I – Panthéon-Sorbonne

Visiting PhD fellow | École Supérieure d'Aménagement et Développement at Université Laval

1997   MPhil in Multimedia studies | Unicamp, Brazil | Title: Architecture and information technologies

1994   BA in Architecture and Planning | Universidade de São Paulo, Brazil

Academic Experience | administration, teaching, theses supervised

Pontifícia Universidade Católica do Paraná, Brazil

Administration   Graduate Program in Urban Management

2008 – 2012 | Chair
2004 – 2006 | Co-chair
. Lead the creation of the PhD program and put the program among the top-10 urban planning programs in Brazil
. Administered national and international academic and research inter-institutional projects

Teaching	**Graduate Program in Urban Management** City and technologies | Urban mobility: transportation and urban planning | methodology **Undergraduate School of Architecture and Urbanism**
Theses supervised	PhD: 3 completed + 1 in progress + 5 as reader Master: 23 completed + 28 as reader

Professional Consultancy (highlights)

2013 – today	**World Bank** Review of Transport Oriented Development analysis for Indian cities Review of Global Platform for Sustainable Cities — Transport Oriented Development Workshops on Transport Oriented Development in India
2012	**United Nations – Habitat** Reviewer of the Global Report on Human Settlements: Planning and Designing for Sustainable Urban Mobility, 2013
2010	**United Nations – Habitat** "Rapporteur" in the World Urban Forum 5
2009	**IPPUC, (Institute of Research and Planning of Curitiba)** Environmental Impact Assessment for the subway proposal of Curitiba
2009	**State of Parana, Brasil** Touristic Development Plan, State of Parana, Brazil
2008	**United Nations – Center for Regional Development, Colombia** Technical assessment in the Programa de Capacitación en Promoción y Gestión de Proyectos Estratégicos para el Desarrollo Regional Integrado para América Latina
2007 – 2008	**Fundação Getúlio Vargas, Brazil** Chief-consultant for the mobility plan of Curitiba, Brazil
2007	**Sanepar – Basic Sanitation Company of Parana, Brazil** Environmental Impact Assessment for Sanepar headquarters
2001 – 2004	**Urban Systems Brasil, São Paulo** (www.urbansystems.com.br) Chief-analyst of urban market analysis

Government and professional associations

2011 + 2013	**City Council of Curitiba, Brazil** Adviser for the urbanism committee
2009 – 2012	**Transport Council of Curitiba, Brazil**
2010 – 2013	**National Association of Public Transportation (ANTP), Brazil** Member of the Marketing Committee

Publications

Books (published iEnglish)	Duarte, F., Álvarez, R. (2020 - under contract) *Urban play: technology, playfulness and design.* Cambridge, MA: MIT Press Duarte, F., Firmino, R. (2018) *Unplugging the city: the urban phenomenon and its sociotechnical controversies*. London: Routledge. Duarte, F. (2017) *Space, place, and territory*. London: Routledge.

DANIELE BELLERI
CURRICULUM VITAE

BIO & STATEMENT

I am a design editor with international experience as a communication manager, journalist, curator and researcher. With an academic background in contemporary history, urban studies, and political science, and expertise acquired in the field across America, Europe, and Asia, my work bridges design curatorship, communication, and digital marketing.

Architectural communication can play a key role in advancing the design profession and its ability to influence public debate and the policy agenda. In the last years, I have been exploring this topic both as a professional and as a researcher and advisor to educational institutions - most notably, the Strelka Institute for Media, Architecture and Design in Moscow.

As a Partner and Head of Communications at CRA-Carlo Ratti Associati, I co-direct CRA Think - a think tank responsible for advancing the vision of the CRA group. From 2018 to 2020, I have been acting as Executive Curator and Project Manager of the 8th Urbanism and Architecture Bi-City Biennale (UABB Shenzhen), one of the leading design exhibitions in Asia.

Before joining CRA, I co-founded a London-based Strategic Design agency advising cultural organizations in Europe and Asia and worked for ten years as a design reporter for some of the leading media outlets in Europe.

PERSONAL DETAILS:

> **Date of birth:** September 24th, 1985
> **Nationality:** Italian
> **Based in:** Torino, Italy; Helsinki, Finland

CONTACTS:

> cm@carloratti.com

LANGUAGES:

> **Italian** (mother tongue)
> **English** (excellent)
> **Russian** (basic level, reading)
> **French** (basic level, reading)

EDUCATION & RESEARCH

> 2013-2014
> **Strelka Institute for Media, Architecture and Design**
> Research Residency
> Moscow

> 2008-2010
> **Walter Tobagi Graduate School of Journalism, University of Milan**
> Master's Degree in Journalism
> Milan

> 2004-2008
> **University of Milan**
> Bachelor's Degree in Communication and Contemporary History - Distinction
> Milan

PRESENT ENGAGEMENTS

> 2019-present
> **Head of Communications,**
> **CRA Group**
> **(companies: CRA, Makr Shakr, Scribit)**
> Torino, New York City, London

> 2019-present
> **Partner**
> **CRA-Carlo Ratti Associati**
> Torino, New York City, London

> 2017-present
> **Head of Communications/Editor**
> **CRA-Carlo Ratti Associati**
> Torino, New York City, London

> 2016-2017
> **Communication Manager**
> **CRA-Carlo Ratti Associati**
> Torino

> 2015-present
> **Course Curator, Advisor**
> **Strelka Institute for Media, Architecture**
> **and Design**
> Moscow

PAST ENGAGEMENTS

> 2011-2017
> **Design & Architecture Critic**
> **Wired Italia magazine, Condè Nast group**
> Milan

> 2012-2016
> **Co-founder and Editorial director**
> **Granger Press Ltd.**
> London

> 2007-2016
> **Urban Journalist, Design Critic**
> **Domus, IL (Il Sole 24 Ore), Volume, Corriere**
> **della Sera**
> Various locations

> 2012-2014
> **Adjunct Professor**
> **Milan's NABA University,**
> **Lomonosov Moscow State University**
> Various Locations

> 2012-13
> **Digital Communication Manager**
> **Amici della Scala cultural association**
> Milan

> 2010-13
> **Founder, Author**
> **'Il Giro della Nera' data journalism project**
> Milan

PUBLICATIONS

> [As co-author] Ratti, C., Belleri, D. (2018) *Digital Destinations*, in *Shaping Cities in an Urban Age*, Phaidon Press

> [As co-author] Ratti, C., Belleri, D. (2017) *How ubiquitous computing is bringing robotics to places you'd never supect,* in Hello, Robot, Vitra Design Museum catalogue

> [As editor and author] *Domus Innovation* (2017), guest-edited issue of Domus magazine

> [As author] Belleri, D. (2016) *Perdere tempo su Internet (Wasting time on the Internet)*, IL Magazine (Il Sole 24 Ore)

> [As author] Belleri, D. (2016) *L'architettura vista dai ladri d'appartamento (Architecture as seen by burglars)*, IL Magazine (Il Sole 24 Ore)

> [As co-author] Belleri, D., Dreyer, J. (2015) *Shenzhen's Design Revolution*, Domus

> [As author] Belleri, D. (2014), *Continuity's Construction: the Russian pavilion at the 14th Venice Architecture Biennale*, Volume magazine (Issue 41)

TEAM

VINCENT LEUNG
PRESS OFFICER AND EDITOR

Vincent was born and raised in Hong Kong, before spending the subsequent years in United Kingdom, Portugal and Italy for his academic and professional pursuits.

He obtained an MA degree with distinction in history of art at University College London, in which he wrote his thesis on the artistic presentation of nightlife in Paris at the turn of 19th century.

Before joining CRA, Vincent was a freelance food and culture writer. He contributed articles to media outlets across the globe such as The Michelin Guide (digital edition), Eater and food history journal Eaten, as well as produced English content for an exhibition at Tai Kwun, a major cultural institution in Hong Kong.

EDUCATION

> 2016 / Master's Degree in History of Art / University College London

> 2011 / Bachelor's Degree in History of Art / University of Hong Kong

LANGUAGES

> English, Chinese, Portuguese

SELECTED PUBLICATIONS

> Vincent Leung, "The Wife Cake Emerges as a Symbol of Resistance During the Hong Kong Protests," Eater, 2019.

> Vincent leung, "Belgian Chocolate Is Coming Out of Its (Sea)Shell," The Michelin Guide, 2019.

> Vincent Leung, "Illusion of Illumination: The Bourgeois Discontent of Parisian Nocturnal Life, 1880-1900," Master's Thesis, University College London, 2016.

> Vincent Leung, "My Classmate Is a Gallerist in Her Twenties," Cobo Social, 2015.

CRONOGRAMA 13ª BIA [NOME DA PROPOSTA]

	2021										2022									
	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
PRÉ-PRODUÇÃO																				
Pesquisa de Curadoria	■	■	■	■																
Planejamento/Cronograma			■	■	■															
Checagem do Orçamento		■	■	■	■															
PRODUTO 01: Proposta de Co-Curadoria Detalhada e Ajustada	■	■	■	■	■	■														
PRODUÇÃO																				
PRODUTO 02: Projeto de Co-Curadoria e Desenvolvimento dos editais para as chamadas abertas *(confirmação de convidados, contratação de equipes, planejamento de mídia)*				■	■	■														
Chamadas Abertas							■	■												
PRODUTO 03: Projeto Final da Curadoria *(resultados das chamadas, textos e materiais finalizados)*								■	■	■										
Produção da Exposição												■	■	■						
Identidade Visual										■	■	■								
Expografia e Sinalização													■	■						
Divulgação										■	■	■	■	■	■	■	■	■		
Montagem													■	■						
PÓS-PRODUÇÃO																				
Design de Publicação																■	■	■	■	
PRODUTO 04: Relatório Final e Publicação																		■	■	■

ORÇAMENTO 13ª BIA - [NOME DA PROPOSTA]		
ITEM	**DESCRITIVO**	**DETALHAMENTO (EM TÓPICOS)**	**VALOR ESTIMADO**
1	**PRÉ-PRODUÇÃO**		[R$ total da pré-produção]
1.1.1	Curadoria Selecionada	Main curatorial team	R$150.000,00
1.1.2	Equipes Técnicas auxiliares à Curadoria Selecionada	1 assistant curator + 3 interns	R$50.000,00
1.1.3	Chamadas Abertas	Reimbursement for jury members	R$15.000,00
1.1.4	Projeto Expográfico	1 project manager + 3 designers	R$50.000,00
1.1.5	Projeto de Comunicação Visual	materials) + 1 graphic designer to implement all guidelines and materials	R$50.000,00
2	**PRODUÇÃO**		[R$ total da produção]
2.1	EXPOSIÇÃO E INTERVENÇÕES TEMPORÁRIAS		
2.1.1	Espaço físico e necessidades estruturais prévias	Materials for venue pavilions construction, including furniture, lighting, internet connection equipments, storage, security, rental of equipment needed by most exhibitors: screens, computers, multimedia, panels	R$140.000,00
2.1.2	Equipe técnica	Exhibition production manager, Production assistants, Multimedia manager, Main contractor, construction company fee, network of local artisans	R$180.000,00
2.1.3	Conteúdo	Translators and proofreading for general texts, reimbursements for exhibitors	R$100.000,00
2.1.4	Logística	Shipping witin Sao Paulo locations (Due to "local production" policy, shipping is limited to the regional boundaries - no international shipping)	R$40.000,00
2.2	CONFERÊNCIAS		

2.2.1	Convidados	Flights tickets and hotel booking (2 or 3 nights) for five international guests.	R$60.000,00
2.2.2	Logística	Simultaneous translations and transcriptions, Car/shuttle service to bring guests to the venues / to the hotels. It goes together with 2.3.2.	R$5.000,00
2.3	**PALESTRAS E OFICINAS**		
2.2.1	Convidados	Reimbursements for local guests (from Brasil)	R$10.000,00
2.2.2	Logística	Simultaneous translations ans transcriptions, Car/shuttle service to bring guests to the venues. It goes together with 2.2.2	R$5.000,00
2.4	**ADMINISTRATIVO**		
2.4.1	Despesas Operacionais	Transportation and accommodation in Sao Paulo for members of curatorial team during main events, purchase of stationery material	R$25.000,00
2.4.2	Encargos	Licenses	R$5.000,00
2.5	**COMUNICAÇÃO E DIVULGAÇÃO**		
2.5.1	Sinalização e Comunicação Visual da Exposição	Printing posters, maps and leaflet guides, visual signage on site	R$5.000,00
2.5.2	Divulgação	Printing maps, postcards and leaflet guides to be distributed in main cultural venues in Sao Paulo	R$5.000,00
2.6	**EVENTOS**		
2.6.1	Abertura	Drinks and food for guests during opening event, Music	R$35.000,00
3	**PÓS-PRODUÇÃO**		R$ [total da pós-produção]
3.1	**PUBLICAÇÃO**		
3.1.1	Diagramação	Graphic design intern work	R$10.000,00
3.1.2	Impressão	Printing of 1000 copies of the exhibition catalog	R$30.000,00
3.2	**REGISTRO**		
3.2.1	Cobertura	Photo & video shooting at the opening and at the main events and workshops, development of a sum-up video after the end of the biennale	R$30.000,00
			R$1.000.000,00