

# WORKS/ARTISTS IN THE EXHIBITION



## BUREAU D'ÉTUDES

Closer to traditional cartography and counter-mapping are the activities of the French artist duo Léonore Bonaccini and Xavier Fourt, who work under the name bureau d'études. Since the 2000s, they have been producing maps of geopolitical, economic and social situations, which reveal indiscernible dynamics of the capitalist system and colonial logic. Their maps, characterized by a creative use of infographics, are often produced in large formats, and are presented in museums and other exhibition spaces. *Astropolitique* (2019), their latest map, deals with asteroid mining and shows ongoing research into this a yet theoretical economic model, which is of increasing interest due to the pending terrestrial exhaustion of minerals needed for the production of computers, laptops and tablets. Their map also looks at social and environmental disasters that have already been caused by the extraction of these rare resources on Earth.

The Paris-based artists Léonore Bonaccini and Xavier Fourt form the artist-duo bureau d'études. On the initiative of Ewen Chardronnet and the duo, the newspaper "La Planète Laboratoire" was created in 2007. For the last several years, the French Group has been producing cartographies of contemporary political, social, and economic systems. The visual analysis of transnational capitalism is based upon extensive research and is usually presented in the form of large-sized murals. 'Governing by Networks', a chart produced in 2003, visualizes the mutual involvements and dependencies within global media conglomerates. These visualizations of interests and corporations re-symbolize the unseen and hidden, thereby revealing what normally remains invisible and contextualising apparently separate elements within a bigger whole.

▲ Bureau d'études / Collectif Planète Laboratoire, *Astropolitique*, déplétion des ressources terrestres et devenir cosmique du capitalisme: une cartographie [2019], print on paper.  
Photo courtesy of the artists.



## JAMES BRIDLE

James Bridle uses GPS, geolocation software, weather data collection, public mapping, drones, and surveillance cameras to create their works, which they accompany with a critical perspective on technology. The work *Catch and Release* (2018) explores the history of radar technology and its current developments, intersecting the history of surveillance with that of bird migration observation. For this work the artist was able to access the vast database of the Tour du Valat (a private foundation working for the conservation of Mediterranean wetlands in France), which contains over 600,000 flamingo sightings. Bridle investigates the tricky challenge of collecting, visualizing and evaluating data in the study of complex phenomena by dramatizing these datasets with aesthetically compelling satellite images. The two-channel installation is connected online to a database on the artist's personal server. One channel shows entries from the bird observation database while the other visualizes the geographical location mentioned in the entry with a kaleidoscopic composition. As a new line of data appears, the last is erased from the work's database.

**BIO** James Bridle is a writer and artist working across both technologies and disciplines. Their artworks have been commissioned by galleries and institutions and exhibited both worldwide and on the Internet. Their writing on literature, culture, and networks has appeared in magazines and newspapers including *Wired*, the *Atlantic*, the *New Statesman*, the *Guardian*, and the *Observer*. "New Dark Age", their book about technology, knowledge, and the end of the future, was published by Verso (UK & US) in 2018, and they wrote and presented "New Ways of Seeing" for BBC Radio 4 in 2019. Their work received an Honorary Mention at the Prix Ars Electronica 2013, an Excellence Award at the Japan Media Arts Festival 2014, and an Honorary Mention at CERN COLLIDE 2016. It was also shortlisted for the Future Generation Art Prize 2014. Bridle won the Design Museum Graphics Design of the Year in 2014.

▲ James Bridle, *Catch and Release* [2018], two-channel digital installation. Photo courtesy of the artist.

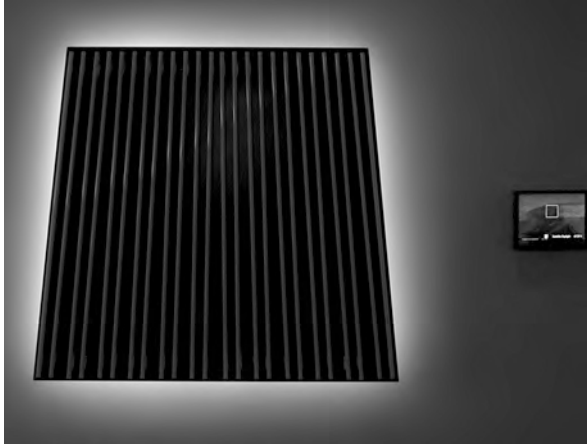
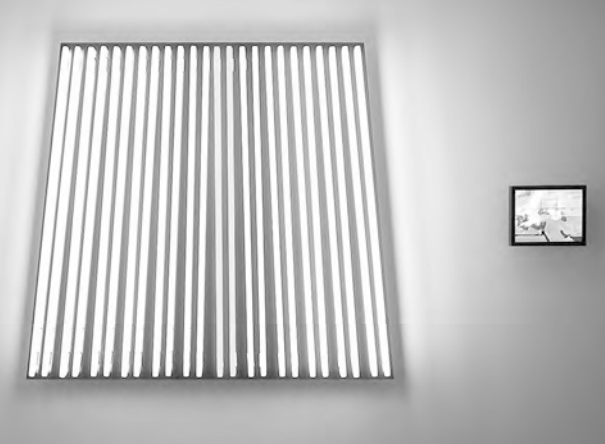


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● **TREVOR PAGLEN**  
 Trained as an artist and geographer, Trevor Paglen exemplifies the fusion of counter-cartography and art. His photographic series, *Limit Telephotography*, portrays the location of military bases and industrial complexes that are usually inaccessible due to land and air space restrictions, using techniques and lenses close to those used for astrophotography. Paglen has devoted most of his work to the analysis of the functioning and logic of state surveillance and has collaborated with several other artists and researchers throughout their projects. The video *Circles* (2015) presented here surveys the surveillance system itself, showing an aerial view of the GCHQ (Government Communications Headquarters) filmed with a drone. The GCHQ, located near Gloucester, is an intelligence and security organization, which provides information to the UK government and armed forces. It has been at the center of controversies related to the abuse of surveillance and security protocols and the disregard of private data.

**BIO** Trevor Paglen is an artist whose work spans image-making, sculpture, investigative journalism, writing, engineering, and numerous other disciplines. Paglen's work has had one-person exhibitions at Nam June Paik Art Center, Seoul; Museo Tamayo, Mexico City; the Nevada Museum of Art, Reno; Vienna Secession, Eli & Edythe Broad Art Museum, Van Abbe Museum, Frankfurter Kunstverein, and Protocinema Istanbul, and has participated in group exhibitions at the Metropolitan Museum of Art, the San Francisco Museum of Modern Art, the Tate Modern, and numerous other venues. He is the author of five books and numerous articles on subjects including experimental geography, state secrecy, military symbology, photography, and visuality. Paglen's work has been profiled in the New York Times, Vice Magazine, the New Yorker, and Art Forum. In 2014, he received the Electronic Frontier Foundation's Pioneer Award for his work as a "groundbreaking investigative artist."

▲ Trevor Paglen, *Circles* [2015], video.  
 Photo courtesy of the artist, Metro Pictures, New York, Altman Siegel, San Francisco.



## ● FABRIC | CH

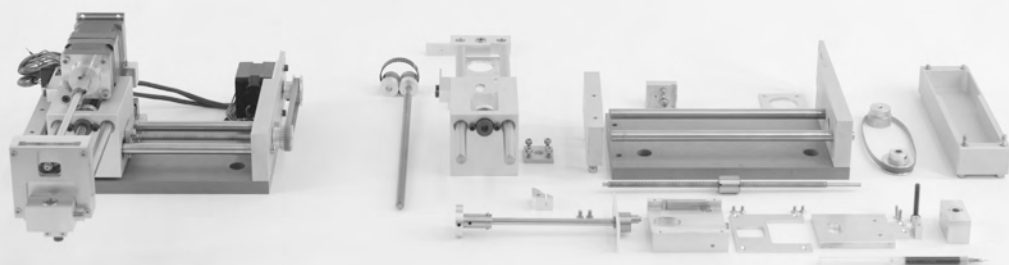
The studio for architecture, interaction, and research fabric | ch takes a look at the increasingly important presence of satellites. The installation, Satellite Daylight, 47°33'N (2020), simulates light as perceived by a meteorological satellite orbiting the earth and the latitude of Basel at a speed of 7,541m/s. The installation consists of 24 neon tubes that reproduce the meteorological reality perceived by the satellite during its trajectory, depending on whether it is in a sunny, cloudy position, day, or night, all in real time. A screen shows a real-time weather map with the imaginary satellite. Satellite Daylight, 47°33'N draws attention to the existence of weather satellites and their influence on our understanding of the world and living conditions.

BIO fabric | ch formulates new architectural proposals and produces singular liveable spaces that bind localized and distributed landscapes, algorithmic behaviours, atmospheres and technologies by combining experimentation, exhibition, and production. Since the studio's foundation, fabric | ch's architects and scientists have investigated the field of contemporary spaces, from network-related environments which mingle physical and digital properties to the interfacing of dimensions, such as their recent research about "spatial interferences" and "moirés spaces". The work of fabric | ch deals with issues related to the mediation of our relationship to place and distance, to automated climatic, informational, and energy exchanges, mobility, and globalization, all embedded in a perspective of creolization, spatial interbreeding, and sustainability. fabric | ch is composed of Christian Babski, Stéphane Carion, Christophe Guignard, and Patrick Keller.

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▲ fabric | ch, Satellite Daylight 66°24'S [2017], interactive installation, neon lights, flat screen, Internet.  
Photo: Daniela & Tonatiuh  
fabric | ch, Satellite Daylight, 47°33'N [2020], interactive installation, neon lights, flat screen, Internet.  
Photo courtesy of the artists.





## ● QUADRATURE

Satellites are also the object of analysis of the Quadrature artists. Their recent work, *Supraspectives* (2020), is a result of the collection of information from 590 spy satellites that remain in orbit, though not all of them are currently in operation. The work calculates the satellites' trajectories and reconstructs what they observe of the world, particularly those satellites that pass near the installation's exhibition site. Information related to the satellites, origin, country, function, are made visible every time that the images related to their trajectories are shown on the screen. Although the images are artistic reconstructions, the work shows a reality that is often invisible or ignored, that of the military use of satellites constantly observing the surface of the earth. Indeed, one might wonder how many spy satellite projects are currently in operation, given that the majority of the population being aware of them. The *Satelliten* (2015) installation similarly displays the number of satellites that are in orbit. A plotter draws the trajectory of a satellite in a given location on old maps in a space of 10cm2 and in real time. The situation is repeated for each satellite orbiting the same area until the map space is completely covered by a black square.

**BIO** Quadrature's artistic research focuses on data and physical experiments. The Berlin-based artist duo understand technology as a means to read and write realities. Together they pursue a transdisciplinary approach, using various media, such as time-based performance and installation, as well as classical sculptural and two-dimensional works. For a period of some years, the artists have been working on the methods and stories involved in exploring our world and the cosmos around us. The group's members, Juliane Götz, Sebastian Neitsch and formerly Jan Bernstein (until 2016), have won several awards and scholarships for their artistic practice, including recognition by the Prix Ars Electronica in both 2015 and 2018, scholarships from the Kunstfonds Bonn, Akademie Schloss Solitude, and LaBecque, as well as a fellowship from PODIUM Esslingen and the Hertz-lab of the ZKM Karlsruhe (Centre of Art and Media). Their works are shown around the world in various festivals and exhibitions.

▲ Quadrature [Bernstein, Götz and Neitsch], *Satelliten* [2015] Mixed media. Photo courtesy of the artists.



## ● ESTHER POLAK & IVAR VAN BEKKUM

Counter-cartography can have a performative character, instead of being limited to the creation of representations. Artists Esther Polak and Ivar Van Bekkum have created walks and performances in the city, applying the concept of performativity – developed by Judith Butler in her discussion of gender – to urban environment and activities. Their thesis is that a city is only a representation of itself as long as it is not walked through and experienced by people who actuate it through ‘move-acts’, a transposition of the concept of ‘speech-acts’. Esther Polak and Ivar Van Bekkum have also used Google maps and GPS to create their works, be they videos or performances. During a residency in Philadelphia, they developed a software that allowed them to make videos in Google Street View and Google Earth using geolocation and by synchronizing the GPS data with the audio recordings. In their work *The Mailman’s Bag* (2015), the artists collaborated with a mailman and equipped his bag with a sound-recording tool and a GPS. The resulting film creates a view of the postman’s path, by making a portrait of a neighborhood in Philadelphia through distorted Google Earth images. The most recent video, *The Fortune* (2018), uses Google Earth to portray a habitual location for popular protests in The Hague. However, in this film there are no people, just a merry-go-round, which is installed there for a funfair once a year. It typifies a coincidence that occurs when using Google Street View, which depicts the place at a certain time, no matter whether the view actually reflects what usually happens there or not.

BIO Esther Polak and Ivar van Bekkum work together under the name PolakVan Bekkum. Since 2002, their work has focussed on landscape and mobility. Rooted in the history of the Dutch realistic landscape depiction, they engage with new technologies like GPS and data collection to express individual experiences of spaces, like the contemporary city and countryside. They always search to change ways to be in landscapes and how this influences the human understanding and perception of space and the stories we tell to explain our lives. They have worked and exhibited internationally: at Transmediale Berlin, Ars Electronica Linz, ZKM Karlsruhe, IMAL Brussels, Rento Btatinga | Gallery Amsterdam, and Museo for Image and Sound, Sao Paolo. In 2005, Esther Polak received a Golden Nica for interactive Art at Ars Electronica together with Ieva Auzina, for their MILKproject.

▲ Esther Polak & Ivar Van Bekkum, *The Mailman’s Bag* [2015], video, rendering in Google Street View.  
 Esther Polak & Ivar Van Bekkum, *The Fortune* [2018], video, rendering in Google Earth.  
 Photo courtesy of the artists.



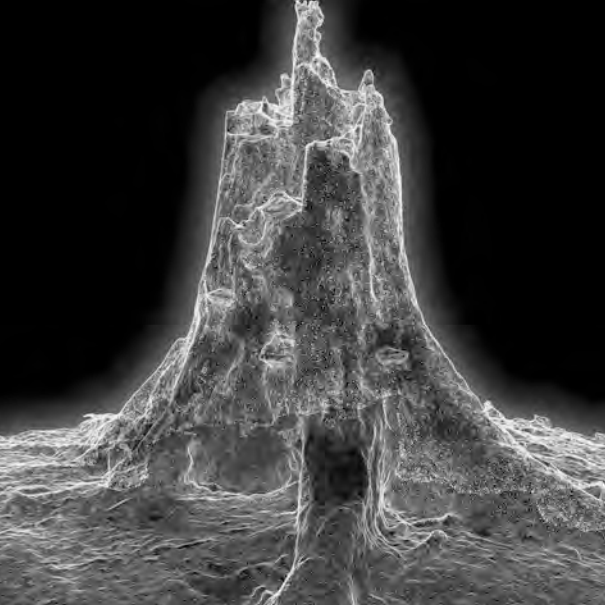
# ● TOTAL REFUSAL (LEONHARD MÜLLNER & ROBIN KLENGEL)

A performative approach characterizes the work of Total Refusal (Leonhard Müllner & Robin Klengel), particularly in their work *Operation Jane Walk* (2018). Instead of making guided tours in the real neighborhoods of a city, the artists instead visited virtual spaces in the online video game *Tom Clancy's The Division* (Ubisoft, 2016), which offers an extremely realistic, albeit dystopian, reconstruction of Manhattan. While the logic of the video game requires players to engage in armed combat within different factions occupying New York City in the future, the artists tried as much as possible to escape any conflict in order to take a walk through the virtual reconstructions of real existing buildings, discussing issues of architecture, history, urbanism, as well as the reasons that led the game's producers to make choices related to the reconstruction of the city. Reflecting on the representation of a city in a virtual universe, which is experienced daily by hundreds of thousands of players on the net, it shows how this kind of cartographic work has an impact on the perception of a city, its history, and identity.

B10 The artist/filmmakers collective and pseudo-Marxist media guerrilla Total Refusal (Leonhard Müllner, Michael Stumpf, and Robin Klengel) intervenes in current video games and writes papers about games and politics. Since 2018, it has been awarded 17 prizes (and 10 honorary mentions) like the Loop Discovery Award, the Contemporary Visual Arts Award of Styria Province, and Vimeo Staff Pick Award, among others. Total Refusal has been screened at more than 120 film and video festivals like Berlinale (2020), BFI London (2018), and IDFA Amsterdam (2018) and they have been exhibited at various exhibition spaces like CURRENTS New Media in Santa Fe (2020) and the Ars Electronica Linz (2019).

▲ Total Refusal [Robin Klengel & Leonhard Müllner], *Operation Jane Walk* [2018], live online performance, video. Photo courtesy of the artists.





## PERSIJN BROERSEN & MARGIT LUKÁCS

Wild landscapes and their representations are often the object of analysis by the artists Persijn Broersen and Margit Lukács. Their work, *Forest on Location* (2018), consists of scanning through photogrammetry and the digital reproduction of a part of the Białowieża Forest in Poland, a national park, and UNESCO World Heritage Site since 1979. Despite this, the industrial use of wood has recently taken place with the consent of the Polish government, justified by the propagation of bark beetles that undermine the preservation of the trees. The justification has been questioned by ecological organizations, who consider the operation to be solely motivated by economic ends. The scanning of part of the forest by the artists is presented through a video that is accompanied by a song performed by Iranian singer Shahram Yazdani, a cover of the popular song *Nature Boy* by Nat King Cole, in turn inspired by a song by Yiddish composer Herman Yablokoff. The artists have also made a 3D print of a forest tree trunk, the work *Shvayg Mayn Harts* (2018), which is used as a projection surface and is a pendant to the video *Forest on Location*. Applications of their own geographical research tools, such as photogrammetry, are used by the artists to create a poetic work that is also an homage to a real landscape that is also the terrain for political, cultural, and ecological debates.

Persijn Broersen and Margit Lukács are artists who live and work in Amsterdam. They use a wide variety of media – most notably video, animation, and graphics – producing a myriad of works that reflect on the ornamental characteristics of today's society. The work of Broersen and Lukács is characterized by a quest for the sources of contemporary visual culture. They demonstrate how reality, (mass) media, and fiction are strongly intertwined in contemporary society through video pieces that incorporate (filmed) footage, digital animation, and images appropriated from the media. Their films, installations, and graphic work have been shown internationally, at among others Biennale of Sydney (AU), Stedelijk Museum Amsterdam (NL), Rencontres Arles (FR), Art Wuzhen (CN), MUHKA (BE), Centre Pompidou (FR), and Casa Encendida (ES). The film 'Establishing Eden' was nominated for the IFFR Tiger Awards 2016.

▲ Persijn Broersen & Margit Lukács, *Forest on Location* [2018], video. Photo courtesy of the artists and AKINCI. Persijn Broersen & Margit Lukács, *Shvayg Mayn Harts* [2018], 3D sculpture, video, 215x220x165cm. Photo courtesy of the artists and AKINCI.



BIO Studio Above&Below is a London- and Ruhrarea-based art and design practice founded by Daria Jelonek and Perry-James Sugden. Their work combines computational design, speculative storytelling, and digital art in order to draw together unseen connections between humans, machines, and the environment – working towards better future interactions with our environment. Believing in research-based art, Studio Above&Below works with scientists, technologists, and communities to push the boundaries of digital media for future living. The duo's work has been exhibited internationally at institutions such as the Royal Academy, Tate Modern, V&A London, Photophore during the Venice Biennale, Today Art Museum, WRO Biennale, SONAR, WIRED Japan, Hyundai Motorstudio, and the International Shortfilm Festival Oberhausen. Previous prizes and funding awarded include the Near Now Fellowship, Collusion Art Funding, Lumen Prize (shortlisted), Bloomberg Bursary, WIRED Creative HackAward (finalist), Communication Arts Award – Interactive Art and the Battersea Sculpture Prize.

## STUDIO ABOVE&BELOW

The studio Above&Below created Digital Atmosphere, an installation using augmented reality to visualize local air pollution data. The work, inspired by early air pollution devices, uses live data inputs to generate an evolving virtual experience. By using virtual reality to visualize air pollution, Above&Below have created a tool that allows for a sensory perception of an otherwise invisible phenomenon. Air pollution is displayed as a flocking system, and although the attempt to map and visualize pollutants in such a way is meant as a poetic experience, the artists invite us to think about ways to understand and discuss pollution in the future. Their work also comes close to research, as they often collaborate with researchers and scientists in the development of their projects. Digital Atmosphere, for example, resulted from conversations with scientists from King's College in London, and the Atmo Sensor was developed in close collaboration with the Swiss INT Studio.

▲ Studio Above&Below,  
Digital Atmosphere [2020],  
mixed reality sculpture.  
Photo courtesy of the artists.



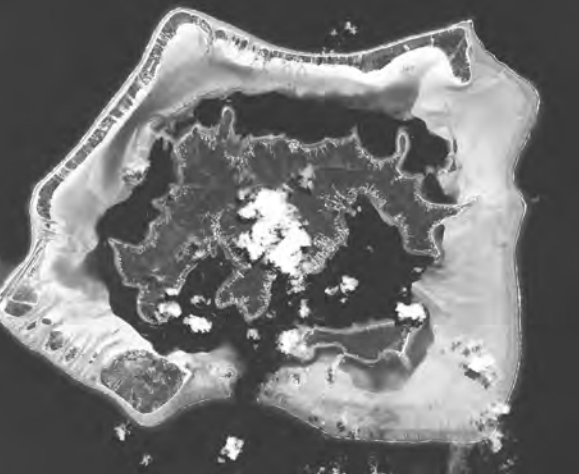
TEGA BRAIN, JULIAN OLIVER,  
AND BENGT SJÖLÉN

While ecology is an important and urgent field of research in geographical studies, the use of artificial intelligence not only to analyze climatic and ecological realities, but even to create models for solving environmental problems is a field that is likely to develop further in the future. The artists, Tega Brain, Julian Oliver, and Bengt Sjölen have created a simulation program, based on a supercomputer and machine learning technology, for the creation of plant scenarios in which the possible future climatic conditions are predicted as well as the necessary security measures for the solution of climate crises. The results proposed by the supercomputer in their work, Asunder (2019), are often absurd and improbable. The aim of the artists is, therefore, to question the increasingly widespread use of AI technologies for the solution of ecological problems. Technosolutionism in general, as well as the idea that computational approach is neutral, are both questioned in the artists' work.

Tega Brain is an Australian-born artist and environmental engineer whose work examines how technology shapes ecological relations. She has created wireless networks that respond to natural phenomena, systems for obfuscating fitness data, and an online smell-based dating service. Her work has been shown in the Vienna Biennale for Change, the Guangzhou Triennial, and in venues like the Haus der Kulturen der Welt in Berlin, and the New Museum, NYC, among others.

Julian Oliver is a Critical Engineer, artist, and activist based in Berlin. Exhibiting since 1996, his projects and lectures have been presented at many museums, international electronic-art events, and conferences, including the Tate Modern, Transmediale, Ars Electronica, The Chaos Computer Congress, FILE, and the Japan Media Arts Festival. Work made by Julian, or in collaboration with others, has received several awards. Julian has often dedicated his studies and knowledge in counter-surveillance, network engineering, information security, and systems administration to the assistance of at-risk groups, with a focus on environmental defense. Bengt Sjölen is an independent software and hardware designer/hacker/artist based in Stockholm and Berlin with roots in the Atari demo scene. He collaborates within several networks like Weise7, Hackteria and Critical Engineering Working Group. His work follows many different threads spanning subjects such as biology, software radio, electromagnetic fields, and artificial intelligence. His work has been presented internationally in events like Arte Mov, Ars Electronica, Synthetic Times Exhibition, NTT ICC Tokyo, Venice Biennale of Architecture, ISEA, Pixelache, World Expo 2010, Transmediale, and The Glass Room.

▲ Tega Brain, Julian Oliver, and Bengt Sjölen, *Asunder* [2019], three channel video-projection, satellite imagery, CESM climate model, multi-processor computer, and custom software. *Asunder* was commissioned by the MAK for the VIENNA BIENNALE 2019. Photo courtesy of the artists.



● **JAKOB KUDSK STEENSEN**  
The work *Primal Tourism* (2016) by Jakob Kudsk Steensen is an exact, full-scale virtual replica of the iconic tourist island of Borabora in French Polynesia. The artist recreated the island in a 3D environment for a virtual reality experience built with the Unreal Engine, using various sources such as cardboard, plans, satellite images, tourist photographs, images from scientific magazines, drawings, and historical reports. The narratives he creates around the island tells stories of tourism, colonialism, and technology. Steensen did not simply use cartographic tools to create a realistic immersion, as often happens in video games that reconstruct existing landscapes, but he also created an immersive environment in which the viewer can discover elements of history, both real and virtual, to create an understanding of the events related to the island that speak of more global ecological problems. The fact that the artist imagines the island of the future, now abandoned and partly covered in water due to global warming, opens new horizons to counter-cartography strategies, including premonitions as a means to raise ethical considerations.

**BIO** Jakob Kudsk Steensen brings together physical, virtual, real, and imagined landscapes in mixed reality immersive installations. Using a site-specific and slow media approach, he reimagines stories of overlooked ecosystems and of forgotten natural histories. His works are created through collaborations with artists, scientists, and natural history museums, including Michael Riesman, the musical director of Philip Glass's Ensemble, architect David Adjaye, and the Museum of Natural History in New York City and London. Jakob was a finalist for the Future Generation Art Prize at the 2019 Venice Biennale. He received the Serpentine Augmented Architecture commission in 2019 to create his work 'The Deep Listener' with Google Arts and Culture. He is the recipient of the best VR graphics for RE-ANIMATED (2019) at the Cinequest Festival for Technology and Cinema, the Prix du Jury (2019) at Les Rencontres Arles, the Webby Award - People's Choice VR (2018), and the Games for Change Award - Most Innovative (2018), among others.

▲ Jakob Kudsk Steensen, *Primal Tourism* [2016-2020], virtual simulation of Borabora, video game engine. Photos in the Video file: Photo courtesy of the artist.



## ● FEI JUN

Fei Jun has created an interactive video game consisting of two interaction modes. The first allows the public to create a virtual world using more than 300 objects that the artist has reconstructed from ordinary objects. The second interaction mode enables the audience to roam in the real-time rendered world via an iPad application on the exhibition's site. Users can interact with virtual worlds and create diplomatic relations between them, helping to build different worlds, sharing resources, or sabotaging others. Although the artist makes use of scanning techniques of real objects, the strength of his work does not lie in his representative power, but in his allegorical one. His work is a social experiment involving diplomatic dynamics for the collaborative construction of the representation of a virtual world.

## BIO

Fei Jun is the head of CAFA Media Lab, an associate professor in interactive media art and design, China Central Academy of Fine Arts as well as a working artist and designer. He is also a co-founder of Moujiti interactive. His art and design work has been exhibited nationally and internationally in galleries, museums, and at festivals and has received many international awards, including the IF design award. His artistic practice has crossed digital art, interactive art, experience design, interface design, interaction design, digital publishing, and other unknown areas. As an artist, he is particularly interested in the hybrid space that is constructed by virtual and physical space; as a designer, Fei Jun has been creating mobile applications and interactive installations for clients, including the Palace Museum, Audi, Trends Media Group and etc.; as an educator, he has been teaching an interactive art and design program in CAFA since 2005.

▲ Fei Jun, Interesting World installation 1 [2019], interactive installation, game engine, application. Photo courtesy of the artist.



