OLIVIA JACK

computer programmer and media artist

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SELECTED PROJECTS

Hydra. net.art + software. 2018.

Browser-based platform for live coding visuals, inspired by analog video synthesis. Ongoing investigation into the aesthetics of distributed networks, feedback, collaboration, and chaos in live performance. https://hydra-editor-v1.glitch.me/

Bogotá: Los Cerros Desde el Aire. Media Installation. Commissioned by Museo de Bogotá. Bogotá. Colombia. 2017.

Visual and auditory cartography of the formation of the city of Bogotá over time, from pangea to the present day. Generative animations based on cartographic analysis and custom software.

<u>Live Lab.</u> software. Commissioned by CultureHub Art + Technology Center in NYC and Seoul Institute of the Arts in Seoul, Korea. 2015 - 2018. Open-source, Browser-based software for networked performance that uses a peer-to-peer mesh network to share audio, video, and data streams between performers and venues.

PIXELSYNTH. net.art. 2016.

Browser-based synthesizer for creating sound from images and drawings, allowing performers to use visual parameters and illustration to create a live sound composition. Inspired by the ANS synthesizer created by Evgeny Murzin in 1937. https://ojack.github.io/PIXELSYNTH/

NODOS: cuerpos en expansión. Dance + technology performance. Dir. Edna Orozco. Bogotá, Colombia. 2015. Exploration of the body as a series of tracings, nodes that expand, contract, split and merge with other bodies. Uses infrared sensors and custom software to generate real-time interactive projections.

Maps for getting lost. Net.art, cartography. 2015.

Generative and self-destructive street maps drawn into the browser. Algorithmic exploration of the city as an ever-evolving series of ephemeral connections.

QUIA: the same other as always, Dance + technology performance. Dir. Edna Orozco. Bogotá, Colombia, 2014 - 2016. Interactive set design and software development for the experimental dance performance QUIA, which has been performed in Colombia, Croatia, and Costa Rica.

<u>Laboratory of Possibilities</u>. *Media Installation. Oakland Museum of California, Oakland, CA. 2014.*Creation of a participatory media installation exploring dystopian and utopian futures through collaborative storytelling and illustration. Permanent installation in the Natural Sciences Gallery of the Oakland Museum of California.

Anti-Eviction Mapping Project, San Francisco, California, USA. 2013 - 2016.

Co-founded independent collective documenting gentrification and displacement in the San Francisco Bay Area, using data visualization and cartography to show the impact of house policy on local communities.

Migration Patterns, Media Installation. Oakland Museum of California, Oakland, CA. 2012.

Visualization of movement over time and cyclic migration of animals in the Pacific Ocean, using databases of scientific research and tracking. Permanent installation in the Natural Sciences Gallery of the Oakland Museum of California.

EXHIBITIONS

Domóticas, ARTBO: Bogotá International Art Fair, Bogotá, Colombia.
 Queer Porto, Maus Hábitos, Porto, Portugal
 Interactivos?16: Mundos Posibles. Medialab Prado, Madrid, Spain
 Take this Hammer. Yerba Buena Center for the Arts, San Francisco, California, USA
 Click, Drag, Fall Apart. Refest Art+Tech Festival, La Mama Experimental Theater, New York, USA
 Festival de Arte Interdisciplinar Cuerpo Estado, Estación la Sabana, Bogotá, Colombia

PERFORMANCES

2019	KEYS Algorave, Trauma Bar und Kino, Berlin, Germany
2019	CTM Festival, Music Maker's Hacklab, Berlin, Germany
2019	Viu Festival, Live coded audio and visuals, Hangar.org, Barcelona, Spain
2019	Algorave, live visuals, International Conference on Live Coding, Madrid, Spain
2018	Paradise: Return to Aja. software and live visuals for theater. Dir. India Sky Davis. Brava Theater, San
	Francisco, USA
2018	Quia, la misma otra de siempre. Biblioteca Virgilio Barco, Bogotá, Colombia
2018	Babycastles X LiveCodeNYC: Algorave Arcade. Live code performance. Performance Space New York.
	New York City, New York
2018	Algorave RGGTRN, Plataforma Bogotá, Bogotá, Colombia
2017	Nodos: Cuerpos en Expansión. Festival de danza contemporánea CUERPO CONSTELACIÓN, La
	Libélula Dorada, Bogotá
2017	<i>Infinito.</i> Software and live visuals for theater. Dir. Rayo Lujan. Premio Iberescena. Teatro Eugene
	O´Neill, San Jose, Costa Rica.
2017	<i>Quia, la misma otra de siempre</i> . , Factoria L'éxplose, Bogotá, Colombia
2017	<i>Infinito.</i> Universidad de Antioquia, Medellín, Colombia
2017	<i>Infinito.</i> Residencia Factoria Léxplose, supported by the Ministerio de Cultura de Colombia. Bogotá,
	Colombia
2015	QUIA, la misma otra de siempre. Software and live visuals for dance. Dir. Edna Orozco. Premio
	funciones estelares, Fundación Gilberto Alzate Avendaño

RESIDENCIES

2018	Digital Performance Residency, Favoriten Festival. Dortmund, Germany
2017	Residencia Colaborativa, Platohedro, Medellín, Colombia
2016	Choreographic coding lab. CCL #4. Collaboration with Lisa Parra and Daniel Pinheiro, New York.
2016	Interactivos? '16: Mundos Posibles, Media Lab Prado, Madrid

TEACHING

2017-2018 Intermedia-Redes, Department of Visual Art, Pontificia Universidad Javeriana, Bogotá, Colombia

WORKSHOPS AND CONFERENCES

2019	The browser as a modular, networked video synthesizer, JSCont Hawai'i
2019	Network ghosts: video feedback and algorithmic uncertainty CTM Festival, Berlin
2019	<i>Hydra workshop</i> , Viu festival, Barcelona, Spain
2019	Hydra, live coding workshop for high school students, American Space Madrid, Madrid, Spain
2018	Audiovisual creation with software libre. FLISOL, open-source software festival. Bogotá, Colombia
2018	Live coding: (a)sincronia audiovisual. Plataforma Bogotá, Bogotá, Colombia
2017	Browser as modular synth: live coding distributed and networked visuals. International Conference on
	Live Coding, Morelia, Mexico
2017	Hiperconectadxs, Platohedro, Medellín, Colombia
2017	Cyborg dreams. Laboratory of machine-human creation. Plataforma Bogotá, Bogotá, Colombia
2014	Drawing with code: Javascript and analog creativity, CaliJS, Universidad Javeriana, Cali, Colombia
2014	Workshop: Mapping Repression and Resistance in the Bay Area. LOL Oakland Makerspace, Oakland,
	California, USA
2014	Intro to Creative Coding. Bay Area Video Coalition, San Francisco, California, USA
2014	Maps that Move. CARTography GeoMixer, San Francisco Design Week, San Francisco, California, USA
2013	Ellis Act Evictions. Mapping and its Discontents, University of California, Berkeley, California, USA

EDUCATION

2007 - 2011 Stanford University, Stanford, California, USA

B.S. in Engineering-Product Design, minor in Computer Science

Coursework in Human-Computer Interaction, Electronics, Urban Design, Manufacturing, Digital and Electronic Art.

PROFESSIONAL EXPERIENCE

2018 - present	Developer, Instituto Distrital de las Artes, Bogotá, Colombia Develop applications, organize events, and lead workshops related to Art, Science, and Technology as part of IDARTES (District Arts Institute) of the city of Bogotá.
2017 - 2018	Professor, Pontificia Javeriana University, Bogotá, Colombia Taught networking, programming, and new media to students in their 8th semester of the visual arts undergraduate degree.
2015 - 2017	Programming Instructor, Pixie Minds, Bogotá, Colombia Taught video game design and development to young people ages 5 to 15 in public libraries throughout Bogotá. Introduced programming concepts through gameplay and storytelling. Created and documented lesson plans for diverse groups of students.
2014 - present	Software Developer, Freelance

Develop software and interactive installations for cultural and educational institutions. Clients have included: CultureHub Art & Technology Center (NYC), Instituto Distrital de

Patrimonio Cultural (Bogotá), Organización de Estados Iberoamericanos, Museo de Bogotá. Develop full-stack applications using JavaScript, React, NodeJS, and C++. 2011 - 2014 Media Exhibit Developer, Oakland Museum of California, Oakland, California, USA Created installations about natural science in California as part of an interdisciplinary team. Designed and developed educational interfaces for use in the gallery using JavaScript, Processing, and Flash. 2011 Data Visualization Specialist, Spatial History Lab, Stanford University, California, USA Prototyped applications of data visualization in humanities and social sciences. 2010 **Programming Intern**, Alea Technologies, Teltow, Germany Created an eye-gesture-based writing application in C# for computer users with limited speech and motor control. 2009 - 2010 Flash Developer, Biomechanical Engineering Department, Stanford University, CA Designed and developed flash-based games for learning about electrical activity and blood flow through the heart.

SKILLS

Programming:

(Web) JavaScript, NodeJS, React, D3, WebGL, WebRTC, MongoDB (Graphics/Installation) C++, OpenFrameworks, Processing, OpenGL, Kinect, OpenCV

Design: Illustrator, Photoshop, After Effects, Solidworks (CAD), ArcGIS

Languages: English, Spanish, some German