PROFILE

creative technology and interactive art inspired and supported by multidisciplinary understanding of human behavior.

2014



EXHIBITION / AWARDS

2019	ICRA-X Robotic Art "Expressive Motions"
2019	"An Immersive Rohingya Experience"
	ArtLab Happieee Lahore, cur. A. Saeed.
2019	"Machine Gaze" exhibition.
	NYSCI, curator Elizabeth Slagus.
2019	Creative Tech Week art talk, cur. Draves.
2019	Critical Creative Practice keynote
	Northeastern Univ, curator D. Curry.
2019	A' Design Award in Social Design.
2018	"FLORA" network intelligence.
	Java Studios NYC, curator J. Crouse.
2018	"Artistic Intelligence" exhibition.
	ISCMA City University of Hong Kong.
2018	"gARment" fashion experience.
	NYC Media Lab '18, cur. J. Hendrix.
2018	Adobe Design Achievement award.
2018	Microsoft Imagine Cup finalist.
	VRbal: VR training for speech therapy.
2017	"Secret Lives of Machines" exhibition.
	Major Major Dimension show, Parsons.
2017	Best Presentation award.
	Serendicity: Verizon Al Design Jam.
2016	Falling Walls speaker, Tokyo Japan.
2015	"3rd Skin" fashion performance.
	Tokyo Golden Egg, curator V. Ruijters.
2014	" <u>ダンス目なし</u> " photo exhibit.
	12th 1_Wall show, curator R. Takano.

CONTACT

2009

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photography		facebook.com/rayLCphoto

"Kapayaan" philippines before haiyan.

EDUCATION

		Design and Technology, MFA in 2019
2013 - 2017	1	Tokyo MODE Gakuen (東京モード学園) Fashion Design and Technology, MPS 2017
2000 - 2003	1	University of California, Berkeley Flectrical Engineering and Computer Sciences, BS 2003

RESEARCH / DESIGN

2017 - 2019 | Parsons School of Design

PARSONS SCHOOL OF DESIGN Design: 3D poetry installation (Jess Irish), smart objects shy	 lam	2017 - 2019 p (Carla Diana).
LOOMIA CREATOR LAB <u>Design</u> : smart textile clothing for gesture-based 3D dance e	 nvir	2017 - 2018 onment UX.
WEILL CORNELL MEDICAL SCHOOL Research: wireless IR system for cortex-wide imaging behavior	 or (0	2017 - 2018 Connor Liston lab
RIKEN BRAIN SCIENCE INSTITUTE Research: rewards are necessary to extinguish PTSD stress (Josh	2013 - 2016 Johansen lab).
UNIVERSITY OF CALIFORNIA LOS ANGELES Research: modeling inhibitory movement circuits in cerebel	 Ium	2007 - 2012 (Tom Otis lab).
PALO ALTO RESEARCH CENTER Research: particle filter for predicting human motion in clut	 ter (2003 - 2005 David Fleet lab).
UC BERKLEY GROUP FOR USER INTERFACE RESEARCH <u>Design</u> : gesture-recognition post-it wall UI/UX in web desig	 n (Ja	2002 - 2005 mes Landay).

GRANTS / RESIDENCIES

GRANTS / RESTDENCIES		
2019	<u>Davis Peace Prize</u> : interactive VR documentary of Rohingya refugee camps.	
2019	NYSCI New York Hall of Science designer in residence: Al edu at Queens Museum.	
2018	Brooklyn Fashion Design Accelerator residency: Tek Tiles smart textiles design.	
2018	Yahoo-Verizon Sports-Media-Tech startup grant: 5G stadium app for AR views.	
2018	Verizon Connected Futures III grant: Al-based VR for emotional training for autism.	
2017	<u>Process Space LMCC Governor's Island</u> : gesture recognition in dance music improv.	
2015	<u>JSPS Kakenhi Wakate B grant-in-aid</u> (科研費若手) for young scientists 25871125.	
2013	1_Wall at Guardian Garden residency: communication of dance "without eyes."	
2012	BankArt Studio Yokohama residency: mirroring human implicit acts with wearables.	
2011	NSF STEM DIGSSS training grant: computational neuro Suzhou Cold Spring Harbor.	

NIH Neural Microcircuits grant: voltage sensitive dyes for circuit dissection UCLA.

R A Y L C

neuro . tech . art

MEDIA

mixed media scupture interactive installation affective computing interactive user design fashion technology nonlinear narratives



I AM NOT

just an artist, nor just a scientist, nor just a designer, nor just an engineer, despite working in each as my career. I am at the junction of human understanding, technology, and creative practice, creating sculptures and audience experiences for humans and devices that enable empathetic communication, from the multidisciplinary perspectives of neuroscience, installation art, design, and storytelling.

CURRENT TOPIC

I create human-machine environments with embedded intelligence to allow our world to talk to us, so we can empathize deeply with others and with ourselves.



We are always talking about ourselves, thinking about ourselves, taking pictures of ourselves. Using EEG technology to illustrate our obsession about ourselves, I constructed a two-way mirror based on Moritz Wehrmann's Alter Ego installation but made it interactive based on attention signals from NeuroSky headsets. The more we talk and think about ourselves the more we see ourselves, and others see us. [Look at Me, Think of Me]

Machines are becoming specialized and hard to understand. Instead of simplifying in the digital realm, I adapt the digital to humans by creating smart devices and spaces that evoke emotional reactions. They can be caring, flaky, trusty, nagging, attention-craving, occasionally angry, and mildly jealous. A harmonious future involves machines that are part of human ecology instead of opposing it.

[Secret Lives of Machines]

Machine Learning (ML) has been employed to extend human abilities in image and speech processing. Instead of using ML for data mining, I instead take ML agents part of human ecosystems, applying ML to unexpected forms of interactions that subvert what we think machines ought to do, creating situations where ML goes beyond human expectation of what machine intelligence should mean.

[Al: Artistic Intelligence]

Fashion shows of the future will be more than about clothing, but rather interactive experiences that animate clothing, project sentiment, and narrate 4D stories. Working with fashion designers and audiences, we created an AR and projected experience that narrates the creation and destruction of the universe in a crinoline dress. [gARment fashion]

