LIZ BARRY

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EXPERIENCE

CO-FOUNDER and DIRECTOR OF COMMUNITY DEVELOPMENT, PUBLIC LAB, New York, NY, August 2010 - present
Created open source community backed by an NGO to equip people to research, analyze, and advocate for their environments through participatory research using inexpensive, do-it-yourself techniques and online tools.

CO-FOUNDER and CO-DIRECTOR, TREEKIT, New York, NY, January 2009 - present
Created open-source tools to enable participatory urban environmental management, scaled by the City of New York into 2015/6's TreesCount! during which thousands of participants mapped over half a million street trees.

CO-FOUNDER, TALK TO ME, New York, NY
Catalyzed public dialogue and interaction among strangers across the five boroughs of New York City & the USA. Organized "Talk To Me" parties for 700 - 800 strangers in Bryant Park accompanied by installations of "Questions."
June 2002 - December 2005, intermittently present

PROJECT MANAGER, MARY MISS STUDIO, New York, NY, June 2009 - May 2011
Advanced conceptual development of the City as Living Laboratory framework for Broadway: 1000 Steps. Wrote grants with scientists and policy makers for making sustainability tangible through the arts.

URBAN DESIGNER, SKIDMORE OWINGS & MERRILL, New York, NY, July 2007 - January 2009
Developed open space system, non-vehicular transportation plan, and sustainability argumentation for Eco-City Tianjin. Coordinated site works consultants for University Town @ the National University of Singapore.

COORDINATOR, DURHAM INNER-CITY GARDENERS (DIG), Durham, NC, June 2000 - May 2002
Co-managed a youth-driven, urban agriculture program that utilized vacant land to grow fresh produce and flowers for the downtown farmers market. Contracted with City agencies to manage neglected parkland.

PROFESSIONAL AFFILIATIONS

BOARD MEMBER: Math & Democracy
COLLABORATOR: g0v ("gov-zero"), Aerocene, Data Together
MEMBER: OpenStreetMap Foundation, OSMNYC, NYC BetaNYC, Environmental Data & Governance Initiative

PAST: 596Acres (founding board member), GreenMaps (board member), GeoNYC, MapTime, IF6, URBAVORE INC., Artist in Residence at Institute for the Future of the Book

SKILLS

DIGITAL: ArcGIS, QGIS, Excel, Access, AfterEffects, Adobe Creative Suite, Maya, Rhino, Autocad, Makerware, SQL
STUDIO WORK / FIELD WORK: stone masonry, weaving, vertical tapestry loom design and construction, welding (arc, TIG), silversmithing, theatrical sets, fabric design, wheel-thrown pottery, mural painting, 3d printing

TEACHING

SUSTAINABLE SYSTEMS [6661 / PUFY 1100], required for all undergraduates
Parsons The New School for Design, First Year Department, New York, NY
Foundational understanding of the scientific and social issues related to the design of resilient urban futures. For
creative practitioners to comprehend the scientific process from fieldwork and laboratory to policy formulation.
Spring 2014, Fall 2014, Spring 2015, Fall 2016, Spring 2017, Fall 2017, Spring 2018

READING NEW YORK URBANISM / DIGITAL MODELING FOR URBAN DESIGN [ARCH A4528 / ARCH A6824]
Columbia University, Graduate School of Architecture, Planning, and Preservation (GSAPP), New York, NY
Collaboratively taught spatial research and data visualization with 3d modeling, motion graphics, and film faculty.
Additional GIS instruction and resource support was coordinated with UD studio thesis development.
Summer 2008 -- 2016 (as Associate Faculty), 2007 (as digital assistant)

DIGITAL ARCHITECTURE 1: MODELING FOR URBAN DESIGN [PGAR 5605], with co-faculty
Parsons The New School for Design, School of Constructed Environments, New York, NY
Urban design theory was combined with digital technologies to understand and model how cities transform
over time. 2d, 3d, narrative, and time based communication techniques were developed for design proposals.
Spring 2010 -- 2013

INTERFACES: SENSING [PUIC 3530A], co-created by Victoria Marshall
Parsons The New School for Design, School of Design Strategies, Integrated Design Curriculum, New York, NY
The challenge of engaging slowly-changing urban ecosystems that demand rapid attention will be explored
through the design that can adapt to, anticipate, or even inspire ecosystem change through situated action.
Fall 2011 -- 2013

MAPPING THE URBAN ENVIRONMENT [LURB 3027]
The New School, Eugene Lang College, New York, NY
Techniques of representation and spatial analysis were introduced through hands-on field work for under
graduates in urban studies, environmental science, and architecture in this intro to GIS methods course.
Fall 2009, Spring 2010, Fall 2010, Spring 2011

HISTORY/THEORY 5: CRITICAL GEOGRAPHY & TECHNIQUES OF REPRESENTATION [ARCH 654], with Alex Barker
Pratt Institute School of Architecture, Graduate Architecture Program, Brooklyn, NY
This seminar explored cultural topics through traditional tools and techniques of geographic analysis and
representation, as well as neo-geo initiatives and data mining, culminating in a research project.
Fall 2010 -- 2011

WORKSHOP: TALK TO ME, with Erick Gregory
Syracuse University, School of Architecture, Syracuse, NY
On-site, experimental, public interaction workshop with undergraduates from the South Side CDC Studio.
Fall 2007

EDUCATION

COLUMBIA UNIVERSITY, Graduate School of Architecture, Planning and Preservation, New York, NY

M.SC. IN ARCHITECTURE + URBAN DESIGN 2007
Studio 1 - Shed Urbanism: the reach of infrastructure
Studio 2 - Sponge City: distributed urban adaptation to climate change
Studio 3 - Re:Source_Value: ecology and economy in self-built cities

NORTH CAROLINA STATE UNIVERSITY, College of Design, Raleigh, NC

B. LANDSCAPE ARCHITECTURE summa cum laude 2002
Final Project Spring 2002: Gilbert Street Redevelopment Plan based on two years of on-site community engagement
Study Abroad India 1998: Collaboration to restore the Vishwamitri River with the College of Fine Arts, Vadodara

PUBLICATIONS & PAPER PRESENTATIONS

Breen, J, S Dosemagen, D Blair and L Barry. 2018. "Public Laboratory: Play and civic engagement." In The Playful Citizen: Power, Creativity, Knowledge, eds. J Raessens, S Lammes, R Glas, M de Lange. Netherlands: Amsterdam University Press.

"vTaiwan: Public Participation Methods on the Cyberpunk Frontier of Democracy" Civicist, 11/08/16
    (translated into Spanish and Chinese)

Schweik, C.M., Barry, L. D'Ignazio, C., and Gehrke, G. 2015. "Commons-based Peer Production, Open Science and 'Small Data'. Paper presented at the American Political Science Association conference panel on Governance of New Technologies. San Francisco, CA.

Altman, L., L Barry, M Barry, K Kuhl, P Silva, B Wilks. 2014. Eds. C Bauer, and R Fletcher. Five Borough Farm II: Growing the Benefits of Urban Agriculture in New York City. The Design Trust for Public Space. New York: Vanguard Printing.

"Civic, Citizen and Grassroots Science: Towards a transformative scientific research model". Dosemagen, S., M. Lippincott, L. Barry, D. Blair, J. Breen. 2013. Eds. Offenhuber, Dietmar, and Katja Schechtner. Accountability Technologies - Tools for Asking Hard Questions. Vienna, New York: Springer.

"TreeKIT: Measuring, Mapping, and Collaboratively Managing Urban Forests." Silva, P., Barry, E., Plitt, S. 6/11/13 Cities and the Environment (CATE). Volume 6, Issue 1 Urban Forestry Practitioners Share All Article 3.

"Public Lab focuses on open science education at 2013 barnraising" PBS MediaShift IdeaLab Blog, 10/23/13
    with S. Dosemagen and J. Breen
"EcoHack Highlights: Sewage, Pedal Power and Cotton Candy" PBS MediaShift IdeaLab Blog, 12/19/12
"Movement Based Arts Inspire Public Lab's DIY Environmental Science" PBS MediaShift IdeaLab Blog, 8/13/12
"With Public Lab, a Camera Flies in Brooklyn to Monitor Pollution " PBS MediaShift IdeaLab Blog, 10/3/11
"Re: Source_Value" GSAPP Abstract, 2008
"You Talkin' To Me?" Harper's Magazine, April, 2005

AWARDS, FELLOWSHIPS, & SELECTED MAJOR GRANTS

FREE SOFTWARE FOUNDATION 2017 AWARD FOR PROJECTS OF SOCIAL BENEFIT, Public Lab

SUSTAINIA100 SOLUTION, Public Lab 2015

SOCIAL VENTURE NETWORK INNOVATION AWARD WINNER: Public Lab, 2014

KNIGHT FOUNDATION, NEWS CHALLENGE WINNER 2011 & 2014: Public Laboratory for Open Technology and Science

FELLOW, DESIGN TRUST FOR PUBLIC SPACE 2012-13-14: Five Borough Farm Phases II & III with Philip Silva et al

DESIGN MUSEUM, DESIGNS OF THE YEAR 2014: nomination for Public Lab foldable spectrometer

BUCKMINSTER FULLER INSTITUTE CHALLENGE 2013, Honorable Mention for Public Lab

SHUTTLEWORTH FOUNDATION FLASH GRANT RECIPIENT 2013

SUNLIGHT FOUNDATION OPEN GOV CHAMPION 2012

iLAND FELLOW 2012: "HigherED (Ecology + Dance)" with Jessica Einhorn, Lailye Wiedman

PARSONS: MICHAEL KALIL ENDOWMENT FOR SMART DESIGN: PRACTITIONER GRANT 2010 RECIPIENT [pending]
    Open-source Street Tree Mapping & Environmental Stewardship Network with Philip Silva

COLUMBIA, LUCILLE SMYSER LOWENFISH MEMORIAL PRIZE BEST FINAL SEMESTER DESIGN PROBLEM 2007
    Re:Source_Value with Marissa Gregory and Frankie Lui

COLUMBIA, KINNE TRAVEL GRANT 2007: "In The Flood Zone: Bangladesh/Vietnam" with Eric Gregory

HOUSING THE NEXT TEN MILLION, TRAVELING EXHIBITION AWARD 1999: "Urban Archipelagos" with The Village Project

SELECTED PRESENTATIONS

December 8, 2018 - New York. Agent Intellects. Panel: THOUGHT and MEMORY: SYSTEMS at SCALE.
    Parsons the New School for Design. With Jillian Crandall, Andrea Morales Coto, Anthony Dunne, moderated by Ed Keller
November 18, 2018 - Chongqing. Public Lab DIY Open Source Hardware Workshop: hands-on building microscopes,
    spectrophotometers, water quality monitoring. Wu Jie Social Innovation Hub.
October 30, 2018 - New York. Hacking the American City: Grassroots Citymaking from the Netherlands to the US. NYU Institute for
    Public Knowledge. Discussion with Matthijs Bouw, Anthony Townsend, Greg Lindsey, moderated by Jackson Rollings
October 25-28, 2018 - Shanghai / Shenzhen. Asian Environmental Innovation Forum: Green Future
    Panel: how to help young people real sustainable development goals, with Yu Xin (Fish), Zheng Jiani, Wu Hao
    Workshops: Citizen Science with Muki Haklay, Michael Norton. Fudan University (SH), OpenFIESTA at Tsinghua University (SZ)
July 27-29, 2018 - New York. Fearless Cities. Workshop: "We can do it! Citizen-led consensus-building at scale: inspired by g0v"
    and Panel: "Against the Public-Private and for the Social-Public" with Claudina "CS" Sarahe and Patrick Connolly
May 16-18, 2018 - Toronto. RightsCon. "Empathic, citizen-led consensus-building at scale: A workshop for aspiring g0v nobodies"
    with TTCat, Claudina "CS" Sarahe, Darshana Narayanan, Patrick Connolly
March 24-25, 2018 - Cambridge. Libre Planet 2018.
    "Strategies for software community building; practical equity and inclusivity" with Jeffrey Warren.
March 22-23, 2018 - Cambridge. The Right to the Smart City: Designing for Public Value and Civic Participation. Invited discussant.
    Berkman Klein Center for Internet & Society, Harvard University.
September 13, 2017 - Thessaloniki. Reworks Agora. Keynote:
    "Reports from the frontiers of democracy: implications for urban design"
September 1, 2017 - Boston. 4S. "Mind the (data) gap: The Community Science Model"
    in "Climate Data Protection Under Trump: Strategies and Tactics"
June 20, 2017 - New York. #ProgHacknight with Progressive Coders. "The story of EDGI & the role of #civictech in #democracy"
June 19, 2017 - New York. Columbia University Graduate Urban Design Department. "Positions on Urban Design"
June 6-8, 2017 - New York. Personal Democracy Forum. Panel: "Reinventing Democracy: Lessons from Taiwan and Beyond"
    with Audrey Tang -- Taiwan's Digital Minister, TTCat of Open Culture Foundation, and Colin Megill of Pol.is
April 17, 2017 - New York. GeoNYC. "EDGI and Public Lab" With Brendan O'Brien of qri.io.
March - April 2017. Antarctica. Antarctic Biennale. Aerocene. With Nick Shapiro and Saraceno Studio
March 4, 2017 - New York. International Day of Data. "Data Rescue with the Environmental Data and Governance Initiative"
    with Stephanie Wright of Mozilla Science, and Brendan O'Brian of qri.io
October 27-29, November 2016 - Guangzhou. Asian Environmental Innovation Forum. Keynote.
May 2016 - Taipei. g0v Summit. "Community Science for Healthy Environments."
March 25, 2016. New York. The Center for Book Arts. History of Art Series -- Map as Metaphor, panel 2:
    "The Eco-Techno Map: Data and Online Initiatives" with Ingrid Burrington, Natalie Campbell, and Eric W. Sanderson
January 23-24, 2016 - Hong Kong. MAD--Making a Difference: Village Reinvented: an emergent grid for different realities
    "EcoRoadTrip: China" with He Shan, Coqui water conductivity workshop, & live demo on spectroscopy for oil testing
January 16, 2016 - Guangzhou. South China University of Technology, with GreenovationHub and Chancing Maker Space
    "Intro to Public Lab" & workshop on water conductivity and spectroscopy for oil testing
November 10, 2015 - Cuenca. Side event at the preparatory meeting for UN Habitat III, with LlactaLAB:
    "Community science for resilient cities and the South American lineage of informal adult learning for social change"
November 4-7, 2015 - Cuenca. LlactaLAB, Departamento Interdisciplinario de Espacio y Población, Universidad de Cuenca
    Four day workshop: "Methods and Approaches on Public Participation in Environmental Research" & Ciencia al Parque
September 19, 2015 - Tonawanda, NY. Community Based Science for Action Regional Workshop.
    "On-line and in-person collaboration using DIY environmental tools and techniques"
September 4-5, 2015 - Providence, Rhode Island. Land and Water Conference. The Watson Institute, Brown University.
    "Organizing Strategies" Panelist and moderator with Severine von Tscharner Fleming, Luke Metzger, Aaron Regunberg
July 9, 2015 - Raleigh. USEPA Community Air Monitoring Training: A Glimpse into EPA's Air Sensor Toolbox.
    "How to start a citizen science program" In person conference broadcast to 1,000 webinar viewers
June 5, 2015 - New York. Personal Democracy Forum 2015: Imagine All The People. Workshop "Build With, Not For"
    with Laurenellen McCann, Joshua Stearns, An Xiao Mina, Demond Drummer, Kenneth Bailey, Sandy Heierbacher.
May 6-8, 2015 - College Park, MD. Engaging the Public: Best Practices for Crowdsourcing Across the Disciplines.
    Invited symposium participant
April 16, 2015 - Barcelona. 2nd Annual Barcelona NOVUM Citizen Science Day 2015. Keynote and workshop at MACBA.
    "The Public Lab Community"
February 28, 2015 - New York. ScienceXKickstarter at NYU ITP
    "Q&A on crowdfunding 'C' science & technology" with Don Blair
December 9, 2014 - New York. GeoNYC:
    "Trees Count! 2015: Improving Operations and Growing Stewardship through Participatory Mapping" with Jackie Liu
November 17, 2014 - New Orleans. Global Community Monitor: Community Based Science for Action, Emergency Response
    "Post-Sandy Community Environmental Reporting"

November 6, 2014 - New York. International Conference of Crisis Mappers. Day-long presentation and workshop.
   "Oil Spill Testing"
October 18, 2014 - New York. Apexart: Decolonized Skies. Day-long presentation and workshop. "DIY Drones"
September 21, 2014 - New York. World Maker Faire, Main Stage:
   "Collaborative Making for a Better World"
September 5, 2014 - New York. NYU Law 2nd Thematic Conference on Knowledge Commons: Practitioners' Panel.
   "Public Lab: a Collaborative Research Community"
July 7-11, 2014 - Fiesole, Italy. Vespucci Institute 2014: VGI & Citizen Science: Creating, Engaging, and Understanding
   Co-facilitator, presenter at week-long workshop with 29 participants
May 14, 2014 - New York. Urban Ecology Lecture Series: Citizen Science panel with Jeffrey Laut, Philip Silva, Ellen Jorgenson
   "Residents investigate the Gowanus Canal"
April 11, 2014 - Tapei, Taiwan. Open Source Developers Conference. Keynote.
   "How Public Lab collaborates to make environmental research something anyone can do"
April 6, 2014 - Guangzhou, China. Social Innovation Guangzhou. Closing speaker:
   "Open source licenses built collaborative communities"
April 5, 2014 - Hong Kong. MAD School 2014: Social Innovation Studio. Presentation and workshop:
   "What we see when we look at trees"
January 11, 2014 - Hong Kong. MAD--Making a Difference: the Fifth Direction, "The Making of Meaningful Work"
   "Open source collaboration"
October 24, 2013. New York. New York Public Library: GISMO lightning talks
   "Open Archives"
September 27, 2013 - Boston. Association of Architecture Organizations. Panel presentation.
   "Five Borough Farm Phase II community-led metrics"
September 22, 2013 - New York. World Maker Faire, Live Stage
   "Public Lab: open source tools for DIY science" with Jen Hudon, Gena Wirth, Eymund Diegel
June 9, 2013 - San Francisco. State of the Map US.
   "Your own aerial imagery in OpenStreetMap"
June 1, 2013 - New York City. Columbia Journalism School Tow Center: Sensor Journalism Conference
   "The question of agency in open research"
May 4-5, 2013 - Washington, D.C. Transparency Camp
   "Open hardware: sensors, privacy and civic data" with Jessi Breen, Shannon Dosemagen
   "What citizen science can teach open government"
April 6, 2013 - New York. iLAND Symposium:
   "Embodied research"
April 4, 2013 - New York. NY Tech Incubator Citizen Science Panel, with CartoDB and Foursquare:
   "How is data visualization and citizen science driving new technologies and improving life on Earth?"
February 28, 2013 - Washington, D.C. FedGeo Day: Visions for Improving Federal Geodata conference
   "Gov can dish it, but can they take it?"
November 16, 2012 - Baltimore. University of Baltimore: Maryland Center for Urban Environmental Research and Education
   Seminar Series: "Environmental science in the civic realm"
September 22, 2012 - New York. Informal Waste Sector Conf. Communities: Big Data and Mobile Governance Panel.
   "Big Participation: Public Laboratory and OpenStreetMap"
June 19, 2012 - New York. EPA Region 2 Citizen Science Conference.
   "Civic Science: An Open Research Model"
March 24, 2012 - Boston. Harvard Landscape Infrastructure Symposium:
   "Citizen Cartographies"
January 15, 2012 - New York. Energy! A New School Moment Panel.
   "Spectroscopy and the Thingness of Energy"
December 12-16, 2011 - Abu Dhabi. Eye on Earth Summit:
   "Civic Science vs. Crowd-harvesting"
June 17, 2011 - New York. ArcUser Symposium:
   "Geospatial Collaboration: TreeKIT and the Public Laboratory"
June 15, 2011 - New York. Columbia University GSAPP. Urban Design Symposium:
   "TreeKIT -- New Models for Collaborative Urban Design"
June 6-7, 2011 - New York. Personal Democracy Forum (with Jeffrey Warren):
   "The Future of Sharing"
May 6-7, 2011 - Cambridge. Geospatial Collaboration at Harvard Center for Geospatial Analysis (with Jeffery Warren):
   "The Public Laboratory for Open Technology and Science -- urban projects"
   "Grassroots Mapping how-to workshop"
March 26, 2011 - Brooklyn. Sustainability Crash Course at Pratt Institute's Green Week:
   "DIY hardware/software tools for citizen science"

November 19, 2010 - Albany. Researching New York, Uncovering Hidden Landscapes: "Modeling Minetta" with Steve Duncan
November 9th, 2010 - Philadelphia. Partners in Community Forestry:
 "TreeKIT -- Making a map, Mobilizing communities, & Managing the Urban Forest"
October 27, 2010 - New York. Center For Architecture. Community Engagement: Beyond the Charrette:
 "Broadway: 1000 Steps -- a City as Living Laboratory" with Mary Miss
June 28, 2010 - Washington D.C. TEDxOilSpill "Grassroots Mapping Response to the BP Oil Spill"
June 17, 2010 - New York. Columbia University GSAPP. Urban Design Symposium:
 "TreeKIT -- Crowdsourcing urban ecological management"

MEDIA COVERAGE

Public Lab has been featured in the New York Times, the Economist, the Guardian, Los Angeles Times, Washington Post, Boston Globe, BBC, NPR, PBS, The New Yorker, Al Jazeera, Huffington Post, Gizmodo, MAKE Magazine, LifeHacker, Inhabitat, Good Magazine, Wired, TechCrunch, Fast Company, Yes! Magazine, Popular Mechanics, Popular Science, Discover Magazine, Nature, Newsweek, Landscape Architecture Magazine, Vice, and many other outlets. Complete coverage on Public Lab can be found at publiclab.org/media

TreeKIT was featured in NYC 2.0: The Problem Solvers, WNYE, October 2011.

Talk To Me and related initiatives have been covered by the New York Times, CNN, MSNBC, the BBC, The Oprah Winfrey Show, This American Life, The Associated Press, Reuters, The New York Post, The New York Daily News, NY1, The San Francisco Chronicle, The Washington Post, and other national and international media outlets.

Liz Barry has been quoted in The New Yorker, the New York Times, The Nation, MAKE Magazine, and Atlantic Cities.