

## **Brandon Ballengee: Science Curriculum Vitae**

Louisiana State University  
Museum of Natural Science  
Murphy J. Foster Hall  
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USA  
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### **EDUCATION**

2015-17        **Postdoctoral Research Associate**, Museum of Natural Science,  
Louisiana State University, Baton Rouge, LA  
2014        **Ph.D.**, Transdisciplinary Art and Science, University of Plymouth, England  
/ Hochschule Für Gestaltung Zürich, Switzerland  
2008        **M.Phil.**, University of Plymouth, England / Hochschule Für Gestaltung  
Zürich, Switzerland  
1996        **B.A.**, Art Academy of Cincinnati/ University of Cincinnati, Cincinnati, OH,  
Fine Arts and Biology

### **RESEARCH AND FIELD EXPERIENCE**

**2015-17        Postdoctoral Research Associate**, Museum of Natural Science,  
Louisiana State University, Baton Rouge, LA

- Develop research design and implement surveys of fish in Coastal Louisiana during the field seasons of 2016-17 to gauge for biodiversity and population levels of endemic Gulf of Mexico fishes at sites impacted by the 2010 Deepwater Horizon oil spill.
- Analysis and imaging of cleared and stained field-sampled fishes.
- Develop a series of public and educational activities about Gulf of Mexico biodiversity and natural history of Louisiana marine species.
- Instigate and collaborate in the creation of a portable science and art educational museum focused on Gulf of Mexico biodiversity that travelled to schools, public venues and field sites.

**2009-15        Visiting Scientist**, REDPATH MUSEUM, MCGILL UNIVERSITY,  
Montreal, Canada

- Develop research design and implement wetland-surveys in Southern Quebec during the field seasons of 2009-10 to ascertain percentages of injury and developmental deformities among naturally occurring populations of anuran amphibians.
- Develop research design and implement numerous controlled experiments with anuran larvae and predatory fishes and arthropods to ascertain effects of selective predation on tadpole limb development.
- Analysis and imaging of cleared and stained field-sampled and experimental larvae and peri-metamorphic anurans.
- Develop a series of public and educational activities about native Canadian amphibian natural history and conservation at varied Quebec venues.
- Develop research design and implement pilot wetland-surveys in Piedmont Region, Italy and Co. Offaly, Ireland during the field seasons of 2010 to ascertain percentages of injury and developmental deformities among naturally occurring populations of anuran amphibians.

- Develop research design and implement pilot wetland-surveys in Essonne, France during the field seasons of 2012-13 to ascertain percentages of injury and developmental deformities among naturally occurring populations of anuran amphibians.
- Develop research design and implement pilot wetland-surveys in the greater City Municipality of Ljubljana during the field seasons of 2013 to ascertain percentages of injury and developmental deformities among naturally occurring populations of anuran amphibians.
- Develop research design and implement pilot wetland-surveys in Limburg, Netherlands during the field seasons of 2014 to ascertain percentages of injury and developmental deformities among naturally occurring populations of anuran amphibians.

**2005-2008 M.Phil./ Ph.D. Researcher, UNIVERSITY OF PLYMOUTH, England**

- Develop research design and implement wetland-surveys in Essex and Yorkshire regions in UK during the field seasons of 2006-08 to ascertain percentages of developmental deformities among naturally occurring populations of anuran amphibians.
- Develop research design and implement numerous controlled experiments with anuran larvae and predatory fishes and arthropods to ascertain effects of selective predation on tadpole limb development.
- Develop research design and implement a series of controlled experiments with anuran larvae and infected aquatic snails to ascertain effects of parasitic infestation on tadpole limb development.
- Analysis and imaging of cleared and stained field-sampled and experimental larvae and peri-metamorphic anurans.
- Develop research design and implement examinations of preserved historic natural history museum specimens to ascertain historic ratios of hind-limb deformities among anuran larvae at varied institutions including The Field Museum in Chicago, Peabody Museum at Yale University, Natural History Museum London, and others.
- Develop a series of public and educational activities about amphibian natural history and conservation at venues in Europe and North America.

**2003-08 Field Researcher and Environmental Educator, DREW GARDEN, Bronx, New York**

- Sampled and created species index of aquatic animal species at a 2-Acre section of Bronx River.
- Determined and analyzed dissolved oxygen and nitrate levels present in Bronx River water samples from varied localities.
- Developed Bronx River Environmental Educational Curriculum for High School Students.

**2004-05 Field Researcher and Environmental Educator, CLEARPOOL ENVIRONMENTAL EDUCATION CENTER, Carmel, New York**

- Developed research design and collected data on naturally occurring populations of amphibian in 300+ Acre ecological preserve.
- Developed educational curriculum and stewardship initiative with high-school students (grades 10-12) on local wetland ecology.
- Operated and maintained nature center for temporary housing of amphibian specimens and educational activities.

**2001-03 Field Researcher and Environmental Educator, UNIVERSITY SETTLEMENT BEACON CAMPUS, Beacon, New York**

- Wetland mitigation project involving restoration of marsh that had been piped in the late 20<sup>th</sup> Century.
- Developed educational curriculum and stewardship initiative with high-school students (grades 10-12) on local wetland ecology.
- Monitored wetland for recruitment of amphibian and other aquatic species.
- Operated and maintained nature center for temporary housing of aquatic specimens and educational activities.

**2002-03 Independent Study** with Stanley K. Sessions, DEPARTMENT OF BIOLOGY, HARTWICK COLLEGE, Oneonta, New York

- Primary study into regenerative responses in mid to late-stage Wood frog/ *Rana sylvatica* tadpoles, included: performing micro-surgeries on developing limb buds of tadpoles; monitoring regeneration in disrupted limbs; Comparison with experimentally induced developmental abnormalities with those found in wild populations.
- Primary study focus on developmental response to mechanical disruption in front limb buds in early stage Spotted salamander/ *Ambystoma maculatum* larvae, included: Perform micro-surgeries on developing limb buds of larvae; Monitoring abnormal growth in disrupted limb buds; Comparison with experimentally induced developmental abnormalities with those found in wild populations.

**2000-01 Independent Study** with James Barron, DEPARTMENT OF BIOLOGY, OHIO UNIVERSITY LANCASTER, Lancaster, Ohio

- Develop research design and implement wetland-surveys in central and southern Ohio during 2000-01 to ascertain percentages of developmental deformities among naturally occurring populations of anuran amphibians. Results were reported to USGS's NARCAM.
- Assisted in preservation of voucher anuran and caudate specimens for Stanley K. Sessions, Hartwick College, Oneonta, NY.

**1998-00 Independent Study** with Peter R. Warny, DEPARTMENT OF ZOOLOGY, NEW YORK STATE MUSEUM, Albany, New York

- Assisted to implement general amphibian population surveys at varied localities in Connecticut, New York, New Jersey and Rhode Island during the field seasons of 1998-2000.
- Assisted in preservation of voucher anuran and caudate specimens for the New York State Museum

**1999-03 Volunteer reporter**, NORTH AMERICAN REPORTING CENTER FOR AMPHIBIAN MALFORMATIONS (NARCAM), UNITED STATES GEOLOGICAL SURVEY

- Reported results deformity ratios among natural populations of amphibians from numerous pilot field-surveys conducted in Florida, Michigan, New Jersey, New York, Ohio and Tennessee.

**AWARDS AND HONORS**

- 2016 Interdisciplinary Projects Grant Award, National Academies Keck Futures Initiative, National Academies of Sciences, Washington, DC
- 2015 Residency, Utah State University Logan, Logan, UT
- 2014 Residency, The Sanctuary for Independent Media

- 2013 Residency, Château de Chamarande, Charmarande, France
- 2012 Visiting Scientist, Redpath Museum, McGill University, Montreal, Canada
- 2011 Conservation Leadership Award & Fellowship, National Audubon Society & Toyota TogetherGreen Program, Washington, DC
- Visiting Scientist, Redpath Museum, McGill University, Montreal, Canada
- 2010 Visiting Scientist, Redpath Museum, McGill University, Montreal, Canada
- Residency, [SAT] Société des arts technologiques, Montréal, Canada
- 2009 Visiting Scholar, Monash University, Melbourne, Australia
- Residency, [SAT] Société des arts technologiques, Montréal, Canada
- 2008 Residency, Lafayette College, Easton, PA
- 2007 Grant Award, The Nature Conservancy, Arlington, VA
- 2006 Residency, Teaneck Creek Conservancy, Teaneck, NJ
- 2005 Residency, Clearpool Environmental Center, Carmel, NY

### **PROFESSIONAL MEMBERSHIPS**

- 2010-16 Membership, AMERICAN SOCIETY FOR ICHTHYOLOGISTS AND HERPETOLOGISTS
- 2014-2015 Membership, ASSOCIATION FOR ENVIRONMENTAL STUDIES AND SCIENCES (AESS)
- 2014-2015 Membership, INTERNATIONAL ASSOCIATION OF BIOETHICS
- 2001/14 Associate Membership SIGMA XI, THE SCIENTIFIC RESEARCH SOCIETY
- 2001 Constituent, PEABODY MUSEUM, YALE UNIVERSITY

### **PUBLICATIONS**

Ballengée, B, “Malamp: A Review of Causes for Limb Deformities in Anuran Amphibians”, *manuscript in preparation*

Ballengée, B, S.K. Sessions and D.M. Green. “Predation-induced limb deformities in Southern Quebec amphibians”, *manuscript in preparation*

Chakrabarty, P., O’Neill, G., Hardy, B., & Ballengée, B. (2016). “Five Years Later: An Update on the Status of Collections of Endemic Gulf of Mexico Fishes Put at Risk by the 2010 Oil Spill”, *Biodiversity Data Journal*, Issue 4, e8728.

Ballengée, B. and Chakrabarty, P. (2016). “Combining Art and Science for Conservation Outreach of Ectothermic Vertebrates (Amphibians and Fishes)”, Poster presented at the 2016 Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA.

Ballengée, B. (2015), "Ghosts of the Gulf", *Cultural Politics*, November, 11 (3).

Ballengée, B. (2015) “The Art, Science, and Environmentalism of Deformed Amphibian Research”, *Art Practical*, Issue 7.2, October 29  
<http://www.artpractical.com/feature/the-art-science-and-environmentalism-of-deformed-amphibian-research/>

VanBuggenum, H.J.M., B. Ballengée, M.Kik, and A. Spitzen-van der Sluijs (2015) “Een voor amfibieën dodelijk ranavirus ook in Limburg”, *Natuurhistorisch Maandblad*, Volume 104, number 3, pp. 54-59

Ballengée, B. (2013) “The Art and Science of Predation-Induced Limb Deformities in Southern Quebec Amphibians” Poster presented at the Twenty-fifth Annual Kavli Frontiers of Science Symposium, National Academy of Sciences Arnold and Mabel Beckman Center, Irvine, California, November 7-9

Ballengée, B. (2012) in L Poissant & E Daubner (eds.), “La conscience écologique par la recherche biologique en art”, *Bioart: Transformations du vivant*, Presses de l'Université du Québec, pp. 61-70.

Ballengée, B. and D.M. Green (2011) “Temporal and spatial analysis of deformed amphibians at selected localities in Southern Quebec: What role do Odonate predators play in inducing anuran limb abnormalities?”, Canadian Wildlife Service, Environmental Canada Summer Research Summary

Warny, P. S.K. Sessions and B. Ballengée. (2010) “Scanning Salamanders: A Natural History of Species and Seekers”, *IRCF Reptiles & Amphibians*, Volume 17, Number 3, pp. 26-28

Sessions, S. K. and B. Ballengée (2010) “Explanations for Deformed Frogs: Plenty of Research Left to do (A Response to Skelly and Benard)”, *Journal of Experimental Zoology*, Volume 314B Issue 5, Pages 341 - 346

Ballengée, B and S. K. Sessions (2010) “The Case of the Deviant Toad: An introduction to the proximate causes for limb deformities in amphibians”, *Brandon Ballengée: Malamp, The Occurrence of Deformities in Amphibians*, Arts Catalyst, London and Yorkshire Sculpture Park, Wakefield, England, pp. 40-44

S.K. Sessions and B. Ballengée (2010) “Developmental Deformities in Amphibians”, *Brandon Ballengée: Malamp, The Occurrence of Deformities in Amphibians*, Arts Catalyst, London and Yorkshire Sculpture Park, Wakefield, England, pp. 62-72

Ballengée, B. & Green D.M. (2010) *Temporal and spatial analysis of deformed amphibians at selected localities in Southern Quebec: What role do Odonate predators play in inducing anuran limb abnormalities?*, report, Canadian Wildlife Service, Gatineau.

Ballengée, B. and S.K. Sessions (2009) “An Explanation for Missing Limbs in Deformed Amphibians”, *Journal of Experimental Zoology*, Volume 312B Issue 7, Pages 770 - 779

Ballengée, B. (2009) in D. Bulatov (ed.) “The Occurrence of Deformed Amphibians in the United Kingdom and North America”, *Evolution Haute Couture: Art and Science in the Post-Biological Age*, National Center for Contemporary Art, Kaliningrad Branch, Russia, pp. 78-79

Ballengée, B. (2007) in P. Anders (ed.) “Visualizing Biological Abstraction in Nature: The Occurrence of Deformed Amphibians”, *Reviewing the Future: Vision, Innovation, Emergence, Abstracts from the 2007 Planetary Collegium Montreal Summit*, University of Plymouth, Plymouth, England

Ballengée, B. (2004) in D. Bulatov (ed.) "The Origins and Application of Artificial Selection", *Biomediale*, National Center for Contemporary Art, Kaliningrad Branch, Russia.

Ballengée, B. (2002), "Deformities in North American Amphibians", *greenmuseum.org*, <http://www.greenmuseum.org/MALAMP>

Ballengée, B. (2001), "Deformed Amphibians; An Overview", *New York Herpetological Society Newsletter*, Spring Issue.

Ballengée, B. (2001), "The Ever Changing Tide: The Ecological Dynamics of the Earth's Oceans as Exemplified through the Biodiversity of the Flushing New York Seafood Markets", *NY Arts Magazine*, vol. 6, no. 11, pp. 16-17.

Ballengée, B. (2000), "Malformed Amphibians", *Journal for the Partnership of Amphibian and Reptile Conservation* (online), September-December. <http://www.parcplace.org/MALAMP>

#### **INVITED PRESENTATIONS**

Raversyde ANNO 1465, Ostende, Belgium Staatliche , "Praeter Naturam: Beyond Nature", June 11, 2016.

Akademie der Bildenden Künste, Karlsruhe, Germany, "Praeter Naturam: Beyond Nature", June 9, 2016.

Hoger Instituut voor Schone Kunsten (HISK), Gent, Belgium, "Praeter Naturam: Beyond Nature", June 6, 2016.

University of Wyoming, Laramie, WY, "Praeter Naturam: Ecology Beyond Nature", April 28, 2016.

University of Wyoming, Laramie, WY, *Sci-Art Salon*, April 27, 2016.

Williams Center for the Arts, Lafayette College, Easton, PA, "Crude Life: An Art and Science Investigation of Gulf of Mexico Biodiversity after the Spill", April 5, 2016.

Williams Center for the Arts, Lafayette College, Easton, PA, "The Fading Poetry of Feathered Dinosaurs", April 4, 2016.

Berman Museum, Ursinus College, Colledgeville, PA, the Berman CONVERSATIONS series, with Nathan Rein, Associate Professor of Religious Studies, March 31, 2016.

Carnegie Museum of Natural History, Pittsburg, PA, "Praeter Naturam: Beyond Nature", R.W. Moriarty Science Seminar, March 28, 2016.

University of Florida, Gainesville, FL, "Praeter Naturam: Ecology Beyond Nature", March 16, 2016.

National Experimental Art Forum (NEAF), Perth, WA, Australia, "International Perspectives", panel discussion with Helen Cole (Artistic Director and Chief Executive, In Between Time, UK), Lu Yang (Artist, China) and Shiho Fukuhara (Artist, Japan), moderated by Jo Metcalfe (Director, International Development, Australia Council for the Arts), October 5, 2015.

Edith Cowan University, Joondalup, WA, Australia, "Praeter Naturam: Ecology Beyond Nature", September 18, 2015.

Sculpture in the Wild, Lincoln, MT, "Ecology Through Art", July 3, 2015.

Missoula Art Museum, Missoula, MT, "Ecology Through Art", June 25, 2015.

Nevada Museum of Art, Reno, NV, "Art Experience vs. Science Experience", Perspectives workshop organized by University of Alaska Fairbanks, June 20, 2015.

Garrison Art Center, Garrison, NY, "Framing Absence", May 31, 2015.  
University of Montana, Missoula, MT, "Ecology Through Art", April 24, 2015.  
Montana Historical Society, Helena, MT, "Ecology Through Art", April 23, 2015.  
Paris Gibson Square Museum of Art, Great Falls, MT, "Ecology Through Art", April 22, 2015.  
University of Great Falls, Great Falls, MT, "Ecology Through Art", April 22, 2015.  
Utah State University, Logan, UT, "Ecology Through Art", part of "Artsystem Symposium", April 17, 2015.  
Utah State University, Salt Lake City, UT, "Praeter Naturam: Ecology Beyond Nature", April 9, 2015.  
Bournemouth University, Bournemouth, UK, "Praeter Naturam: Ecology Beyond Nature", March 25, 2015.  
The Armory Show, New York, NY, "Framing Absence", May 31, 2015.  
Beacon Institute for Rivers and Estuaries, Beacon, NY, "Praeter Naturam: Ecology Beyond Nature", December 13, 2014.  
National Academy of the Sciences, Washington, D.C., "Praeter Naturam: Ecology Beyond Nature", presented at the D.C. Art Science Evening Rendezvous, December 11, 2014.  
Bergen Community College, Paramus, NJ, "Praeter Naturam: Beyond Nature", September 25, 2014.  
Cornell University, Johnson Museum of Art, Ithaca, NY, "Praeter Naturam: Beyond Nature", September 18, 2014.  
The Sanctuary for Independent Media, Troy, NY, "Praeter Naturam: Beyond Nature", August 7, 2014.  
McColl Center for Art + Innovation, Charlotte, NC, "The Love Motel for Insects", July 25, 2014.  
Research in Triangle Park Headquarter, Research Triangle Park, NC, "The Love Motel for Insects", part of "RTP 180: Art in the Triangle", July 17, 2014.  
National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, NC, "Predation-Induced Limb Deformities in Southern Quebec Amphibians", July 17, 2014.  
Comisión Nacional para el Conocimiento y Uso de la Biodiversidad, Mexico City, Mexico, "Plática, The Science, Art and Citizenry of Deformed Amphibiaan Research", June 27, 2014.  
12th World Congress of Bioethics, Mexico City, Mexico, "From Bioethics to BioArt: A Question about the Limits", symposium organized by Prof. Dr. Antonia González Valerio (National Autonomous University of Mexico, Mexico City, Mexico) and PD Dr. Ingeborg Reichle (Humboldt University, Berlin, Germany) at the, June 26, 2014.  
Universidad Nacional Autónoma de México, Mexico City, Mexico, "Praeter Naturam: Beyond Nature", June 24, 2014.  
Pace University, New York, NY, "Witness to Change: Form and Deformities in Amphibian Populations", presented at the 2014 AESS Conference, June 12, 2014.  
Leuphana Universität Lüneburg, Germany, "Praeter Naturam: Beyond Nature", June 3, 2014.  
Art Laboratory Berlin, Berlin, Germany, "Praeter Naturam: Ecology Beyond Nature", June 1, 2014.  
Museum Het Domein, Suttard, Netherlands, "Praeter Naturam: Ecology Beyond Nature", May 24, 2014.  
Holter Museum of Art, Helena, MT, "Love Motel for Insects: Trans-species Engagement through Public Art", April 4, 2014.

Rensselaer Polytechnic Institute (RPI), Troy, NY, "Praeter Naturam: Ecology Beyond Nature", February 27, 2014.

National Academy of the Sciences, Irvine, CA, "The Art-Science Interface", part of Twenty-fifth Annual Kavli Frontiers of Science Symposium, November 8, 2013.

Columbia University, New York, NY, "CUriosity3: Urban Ecology in Art and Science", November 14, 2013.

I.D.E.A.S. 40203, Louisville, KY, "Art + Eco Sustainability: artists as investigators asking transformational questions" presented at the conference "The Boom is Over... Long Live the Art Symposium", September 28, 2013.

Amelie A. Wallace Gallery, SUNY College, Old Westbury, NY, "Praeter Naturam: Biology Beyond Nature", September 10, 2013.

University of California San Diego, San Diego, CA, Artist talk at the conference "Consume", April 11, 2013.

University of Virginia, Charlottesville, VA, "Praeter Naturam: Beyond Nature" presented at the conference "After the Deluge", March 20, 2013.

The Schuylkill Center for Environmental Education, Philadelphia, PA, "Praeter Naturam: Beyond Nature", March 9, 2013.

Hudson Valley Center for Contemporary Art, Peekskill, NY, "Praeter Naturam: Beyond Nature", March 17, 2013.

Kibla Multimedia Center, Maribor, Slovenia, "Praeter Naturam: Beyond Nature" presented at the conference "Soft Control: Art, Science and the Technological Unconscious", November 16, 2012.

University of New Mexico's Museum of the Southwestern Biology, Albuquerque, NM, "Malamp: The Occurrence of Deformed Amphibians", February 24, 2012.

University of North Carolina, Chapel Hill, NC, "Praeter Naturam: Beyond Nature", April 2, 2012.

Foundation for Indian Contemporary Art, Delhi, India, "Praeter Naturam: Beyond Nature", March 18, 2011.

Parsons The New School for Design, Sheila C. Johnson Design Center, New York, NY, Agents of Change. Panel discussion with Jackie Brookner, Eve Andrée Laramee, Stacy Levy, Tattfoo Tan moderated by Amy Lipton and Patricia Watts, 10 December 2010.

Parco Arte Vivente, Centro d'Arte Contemporanea, Torino, Italy, "Praeter Naturam", 6 July 2010.

Museo Regionale di Scienze Naturali, Torino, Italy, "Malamp: The Occurrence of Deformed Amphibians", 5 July 2010.

Theatrum Anatomicum van de Waag, Amsterdam, Netherlands, "Malamp: The Occurrence of Deformed Amphibians", 26 May 2009.

Monash University, Melbourne, Victoria, "Visualizing Biological Abstraction: the Occurrence of Deformed Amphibians", From "Thematic Correlations for Art Researchers" Conference, 1 April 2009.

Lafayette College, Williams Center, Easton, Pennsylvania, "Monstres Sacrés: Biological Abstractions Sculpted by a Changing Environment", 6 November 2008.

Cornell University, Ithaca, NY, "Monstres Sacrés: Biological Abstractions Sculpted by a Changing Environment", From Earth Art to Eco-Art Conference, 18 October 2008.

Loyola University Chicago, Chicago, Illinois, "Monstres Sacrés: Biological Abstractions Sculpted by a Changing Environment", 9 October 2008.

School of the Art Institute of Chicago, Chicago, Illinois, "Monstres Sacrés: Biological Abstractions Sculpted by a Changing Environment", 7 October 2008.

The Institute for Unstable Media, Rotterdam, Netherlands, screening of "Malamp UK", 21 August 2008.



Yorkshire Sculpture Park, Wakefield, England, “A Reason for deformities in British Amphibians”, 7 August 2008.

ISEA, Singapore Management University, Singapore, “The Impalpable Writing of the Temporary Fly” with Ingrid-Quy Gontran, 30 July 2008.

Nanyang Technological Institute, Singapore “Trans-disciplinary Approaches towards increasing Environmental Awareness through Amphibian Research”, Z\_Node Symposium on Trans-disciplinary Practices, 24 July 2008.

Castleford Gallery, Castleford, England, “A Reason for deformities in British Amphibians”, 5 July 2008.

IX MediaForum– part of the XXX Moscow International Film Festival, Dmitry Bulatov D & O Shishko (curs.), screening of “Malamp UK”, 23-26 June, 2008.

University College Falmouth, Falmouth, England, “Malamp UK: The Occurrence of Deformities in British Amphibians” 2nd Artful Ecologies Symposium, 10 June 2008.

Société des arts technologiques [SAT], Montréal, Canada, “Monstres Sacrés: Deformities in North American Amphibians”, 10 March 2008.

New Museum of Contemporary Art, New York, NY., “Amphibian Research 1996-2008”, Media Art in the Age of Cloning Bio-Ethics Panel, 5 March 2008.

COMAFOSCA, Nodo de Arte y Pensamiento en Alella, Barcelona, Spain, screening of “Monstres Sacrés: Deformities in European and North American Amphibians”, 16 February, 2008.

Gunpowder Park, Essex, England, “Trans-disciplinary Ecological Art”, EcoVentions Conference, 15 July 2007.

University of Huddersfield, Media Center Digital Research Unit, Huddersfield, England, “Trans-disciplinary Approaches towards increasing Environmental Awareness through Ecological Art Practice”. Biorama Conference, 13 July 2007.

UQAM, Cœur des Sciences, Montréal, Canada, “Visualizing Biological Abstraction in Nature”, The First Summit Meeting of the Planetary Collegium, 20 April 2007.

Arsenal Gallery, Central Park, New York, NY, “Silent Migration” panel discussion with Mike Feller, Denise Markonish, Rebekah Creshkoff moderated Amy Lipton, 20 March 2007.

City University of New York Graduate Center, New York, NY, “Interdisciplinary Art and Biology Research Projects”, Eco-Metropolis panel, 12 November 2006.

Rivers & Estuaries Center, Beacon, NY, “Visualizing Biological Abstraction in Nature: The Occurrence of Deformed Amphibians in North America and The United Kingdom”, 24 October 2006.

Hudson River Museum, Yonkers, NY, “Interdisciplinary Art and Biology Amphibian Research Projects”, 15 October 2006.

Urban Center, New York, NY, “Interdisciplinary Art and Biology Research Projects in New York City”, Engaged with Nature Panel Series #3 moderated by EJ McAdams, 8 May 2006.

Exit Art, New York, NY, “The Drop” panel discussion with Jackie Brookner, Bob Braine and others moderated by 29 April 2006.

Yale University, School of Forestry & Environmental Studies, New Haven, Ct., “Ecological Art that generates Primary Research Biology”, 25 April 2006.

American Museum of Natural History, New York, NY, “Interdisciplinary Art and Biology Amphibian Research Projects”, 20 April 2006.

Tribeca Performing Arts Center, New York, NY, “Dialogues in the Visual Arts: The Hudson River as Source” panel discussion with Stacy Levy and Margaret Cogswell moderated by Jennifer McGregor, 22 February 2006.

Fundación del Centro Historico, Mexico City, Mexico, "Trans-disciplinary Approaches towards increasing Environmental Awareness", Trans-disciplinary Art, Science and Technology Conference, 19 February 2006.

CUNY Graduate Center, New York, "Eco-art in the Concrete Jungle" panel discussion with Jackie Brookner and Christy Rupp, moderated by Amy Lipton, part of the Eco-Metropolis Conference, 12 November 2005.

University of York, York, England, "Visualizing Biological Abstraction in Nature: The Occurrence of Deformed Amphibians in Australia, North America, and The United Kingdom", Rules of Engagement Conference, 7 August 2005.

University of Washington Bothel, Seattle, Washington, "Successful Art and Science Collaborations in the Eco-Arts Community", Earth Rites: Imagination and Practice in Sci-Arts Eco-Cultures Conference, 21 May 2005.

New York Historical Society, "Ecological Art and Scientific Process", John James Audubon and his Legacy panel series #3, 13 April 2005.

Kings College London, School of Medicine, London, England, "The Evolution of Artificial Selection", SymbioticA Biotech Art Workshop, 30 March 2005.

Communication Arts College, Kong-Ju, South Korea, "Ecological Art and Scientific Process", 29 July 2004.

Jamaica Center for Arts and Learning, Queens, NY, "The Biodiversity and Rapidly-Changing Ecology of Jamaica Bay", 15 June 2004.

Oxford- Brooks University, Oxford, England, "Strategies for Engaging Public Participation", Social Sculpture/ Connective Aesthetics Methodologies Colloquium, June 24, 2003.

Natural History Museum, London, England, "Amphibian Research 1996-2003", Working with Wetware Conference, 18 June 2003.

Queens Borough Public Library Flushing Branch, Queens, NY, "From Farm to Pharm: The Evolution of Artificial Selection", 30 April 2003.

Queens Borough Public Library Flushing Branch, Queens, NY, "The Salamanders of New York State", 16 April 2003.

New York University, School of Art and Architecture, New York, NY, "Ecological Art and Scientific Processes 1996-2003", 29 March 2003.

Queens College, City University of New York, Science Building, Queens, NY, "Ecological Art and Scientific Processes in Amphibian Conservation 1996-2003", 23 April 2002.

Hartwick College, Miller Science Building, Oneonta, NY, "Changing Natural History: The New Aesthetic of Genetic Engineering", 5 April 2002.

Carnegie Mellon University, Pittsburgh, Pennsylvania, "Selective Breeding of Hymnochirus family frogs", Paradise Now: Picturing the Genetic Revolution panel, 6 November 2002.

The New York University Law School, New York, NY, "Ecologically Sustainable versus Declining Species of Marine Organisms", Sustain U.S. National Conference, 29 March 2002.

Marine Association of Long Island, Eisenhower Park, NY, "The Ever-Changing Tide: A Year Long Biological Survey of Flushing Seafood Markets", 22 March 2002.

CUNY Graduate Center, New York, NY, "Collaborative Efforts in Ecological Art and Scientific Field Research Towards Amphibian Conservation" with Peter Warny, Art and Science Collaborations Convention, 4 November 2001.

Tang Teaching Museum, Skidmore College, Saratoga Springs, NY, "Selective Breeding of Hymnochirus family frogs", Paradise Now: Picturing the Genetic Revolution panel, 25 September 2001.

University of Massachusetts Amherst, Amherst, Massachusetts, "Beuys versus Smithsonian- Is Contemporary Environmental Art Really the Offspring of Land Art?", 30 April 2001.

Cooper Union, New York, NY, "Successful Dialogues between Artists and Scientists", Art Science Collaboration Inc. (ASCI) Convention, 19 November 1999.

Consulate of the Republic of Hungary, New York, NY, "The Malformed Amphibian Art and Science Project ", 5 October 1999.

Islip Art Museum, Oakdale, NY, "The ACME. LABS Variations and a Brief History of Enrico Fermi", 29 September 1999.

### **TEACHING EXPERIENCE**

2011-15 Faculty, School of Visual Arts, New York, NY (courses taught: Bio-Art since 2011, Urban Ecology since 2012, Principles of Biology, Entomology, since 2013, Ornithology since 2014)

2002-12 Environmental Educator, Hudson River Museum, Yonkers, NY

2003-08 Environmental Educator, Drew Garden, Bronx, NY

2006 Adjunct Professor, Department of Biology, Hartwick College, Oneonta, NY

2006 Environmental Educator, Solar Youth, New Haven, CT

2004-05 Environmental Educator, Clearpool Environmental Education Center, Carmel, NY

2002 Adjunct Professor, Department of Biology, Hartwick College, Oneonta, NY

2001-03 Environmental Educator, University Settlement, Beacon, NY