

Pierre Bélanger
Curriculum Vitae
2016

Dr. Pierre Bélanger
 Landscape Architect *CSLA ASLA* (Canada, America)
 Urban Planner SBA (The Netherlands)
 Associate Professor of Landscape Architecture
 Co-Director, MDes Program in Urbanism, Landscape
 Co-Coordinator, Urbanism, Landscape, Ecology Area (MDes Program)
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www.pa35.net
www.extraction.ca

Pierre Bélanger is Associate Professor of Landscape Architecture and Co-Director of the Master in Design Studies (MDes) Program in Urbanism, Landscape, and Ecology at Harvard University's Graduate School of Design. Cross-appointed with the Department of Landscape Architecture and the Advanced Studies Program, Bélanger teaches and coordinates graduate courses at the intersection of ecology, infrastructure, media and urbanism in the interrelated fields of design, communications, planning and engineering. With a multimedia approach and cross-scalar approach to design in both research and practice, his core interests lie at the convergence of the study of territory, ecology, and power.

In response to the inertia of urban planning and the overexertion of civil engineering in public works today, Bélanger's contribution to the field of "landscape infrastructure" has been shared and developed in collaboration with governments, professionals and academics worldwide. Vis-à-vis the complexities, magnitudes and indeterminacies of urban change, Bélanger's core commitment lies in the agency of landscape architecture and the field of landscape to redefine the morphology of urban infrastructure and future of urban land in design, research, pedagogy and practice.

In addition to the recent publication of the 35th edition of the Pamphlet Architecture Series, *GOING LIVE: From Models to Systems* (Princeton Architectural Press, 2015), Bélanger has published two core books on infrastructure and urbanism including, *LANDSCAPE AS INFRASTRUCTURE: A Base Primer* (Taylor & Francis, 2016) and *ECOLOGIES OF POWER: Countermapping the Military Geographies & Logistical Landscapes of the U.S. Department of Defense*, co-authored with Alexander Arroyo (MIT Press, 2016). Dr. Bélanger's work has been recognized by professional associations and scholars worldwide with publications in *Journal of Landscape Architecture*, *Ecological Urbanism*, *New Geographies*, *Landscape Journal*, *Topos*, *The Landscape Urbanism Reader*, *Geoinformatics*, *Journal of Tunneling and Underground Space Technology*, *Trash, Food*, and *Canadian Architect*. Bélanger's recent editorial work includes *Harvard Design Magazine* Issue No.39 "Wet Matter" (Fall/Winter 2014) in collaboration with Jennifer Sigler, and recent publications include "Altitudes of Urbanization" (2016), "Out of Time" (2016), "Is Landscape Infrastructure" (2015), "The Alvsjø Flatbed" (2015), "Between the Tides of Apartheid" (2014), "Ecology 5.0" (2014), "Landscape Infrastructure: Urbanism Beyond Engineering" (2012), "The Agronomic Landscape" (2011), "Regionalization" (2010), "Redefining Infrastructure" (2010), "Power Perestroika" (2010), "Landscape as Infrastructure" (2009), "Landscapes of Disassembly" (2007), "Synthetic Surfaces" (2007), "Foodshed: The Cosmopolitan Infrastructure of the Ontario Food Terminal" (2007) and "Airspace: The Economy and Ecology of Landfilling in Michigan" (2006).

Bélanger has received several international prizes in design and planning competitions and he is only the Landscape Architect to have received the *Professional Prix de Rome in Architecture* and *Curator's Award for the Venice Architecture Biennale* awarded by the Canada Council for the Arts, as well as the first landscape architect to author the *Pamphlet Architecture Series* since its founding in 1978.

Appointed National Curator of the Canadian Pavilion by the Canada Council for the Arts for the 2016 Venice Architecture Biennale, he is the first landscape architect ever to be selected for the venue of the Biennale since its creation in 1980. Titled, EXTRACTION, the project profiles Canada's position as the preeminent extraction nation on the planet and its rise as global resource empire over the past 800 years since the creation of the Magna Carta in the Year 1215. Looking at fundamental issues of land, territory and power, the project examines the scales, sources, and systems of extraction that underlie the mineral media of contemporary urban life. The project has been profiled internationally in *The Walrus*, *Border Crossings*, *The New York Observer*, *ArchDaily*, and *CBC Radio* and will result in a book to be published by MIT Press, *EXTRACTION EMPIRE*, in Summer 2017.

As former Project Manager for Brinkman & Associates of Earth Partners LLC—the world's largest reforestation and bioengineering contractor, Bélanger completed doctoral studies on infrastructural environments at the Life Sciences University of Wageningen (WUR, The Netherlands) with *PbD cum laude*, the first graduate from the School of Landscape Architecture & Environmental Planning to ever receive this distinction in Wageningen's history since 1918. Prior to this, Bélanger completed graduate studies for the Master in Landscape Architecture at Harvard University's Graduate School of Design where he received the Janet Darling Webel and Norman T. Newton Prizes in design. Originally trained at the University of Toronto under the tutelage of Dr. Detlef Mertins, George Baird and Robert Wright, Dr. Bélanger is professionally registered as a Landscape Architect in Canada and the United States, and as Urban Planner in the Netherlands.

Combining knowledge from different fields and media, Bélanger collaborates with government agencies, resource industries, civil authorities, professional organizations, universities, corporations and a team of interdisciplinary practitioners in the design and development of territorial strategies. Through the inception of OPSYS / Landscape Infrastructure Lab in 2006 (a federally incorporated, non-profit, design-research organization in Canada and the United States), Bélanger initiates and coordinates a portfolio of projects funded by public/private partnerships that include The World Bank Group, the Government of Haiti Civil Protection Service, the U.S. Department of Defense, Transport Canada, New York State, Charles River Conservancy, Foreign Affairs & International Trade Canada, the Social Sciences & Humanities Research Council, the Toronto Region Conservation Authority, Jardin International de Métis, the Greater Toronto Airports Authority, Waste Management Inc., the City of Toronto, and the U.S. Army Corps of Engineers.

EDUCATION

- 2013 Wageningen University
PhD *cum laude*
Department of Environmental Planning & Landscape Architecture
- 2006 Canada Department of Mines & Resources
National Surface Miner Program (Heavy Equipment Operation & AZ Truck Driver Licence)
- 2000 Harvard University
Graduate School of Design
MLA Landscape Architecture (Norman T. Newton Prize)
- 1996 University of Toronto
BLA Honors Landscape Architecture (Silver Medal)
- 1995 E.T.S. de Arquitectura, Barcelona, Spain
Urban Design Studies (Study Abroad Program)

ACADEMIC APPOINTMENTS

- 2016-present Faculty, Canada Program / Weatherhead Center for International Affairs
- 2009-present Associate Professor of Landscape Architecture
Co-Director, Master in Design Studies Program
Co-Coordinator, Urbanism, Landscape, Ecology Area
Co-Coordinator, 3rd Semester Core – MLA Program
Graduate School of Design, Harvard University
- 2001-09 Associate Professor, Tenured
John H. Daniels Faculty of Architecture, Landscape, and Design
University of Toronto, Canada
- 2008 Visiting Guest Professor (Spring)
Department of Spatial, Landscape and Infrastructure Sciences
Universität für Bodenkultur, Wien, Austria

PROFESSIONAL POSITIONS

- 2006- OPSYS - Landscape Infrastructure Lab
Director, Ecology-Engineering-Economics
- 2001-09 Centre for Landscape Research & Reclamation
Co-Director & Founder, Landscape Infrastructure Lab
- 1996-1998 Brinkman & Associates Reforestation, Vancouver, Canada
Project Manager, Bio-Engineering & Ecological Construction Projects
- 1993-96 ACME Environmentals
Machine Operator, Landscape Construction & Earthwork Projects

BOOKS & EDITED VOLUMES

- 2017 *EXTRACTION EMPIRE*
Sourcing the Systems and Scales of an Emerging Global Resource Empire
 co-edited with Nina-Marie Lister (forthcoming, MIT Press)
- 2016 *ECOLOGIES OF POWER*
Deconstructing the Military Geographies & Logistical Landscapes of the U.S. Department of Defense
 (MIT Press)
- 2016 *LANDSCAPE AS INFRASTRUCTURE: A Base Primer*
 (Taylor & Francis)
- 2015 *GOING LIVE: From States to Systems*
*(Pamphlet Architecture Series, No. 35, Princeton Architectural Press): 80pp.***
- 2014 *WET MATTER*
Harvard Design Magazine Issue No. 39
 Guest Editor & Contributing Author, with Editor-in-Chief Jennifer Sigler

PUBLICATIONS * invited ** peer review

- 2016 “Dear Mr. Jencks...”
Open Letter with Ghazal Jafari and Hernán Bianchi Benguria
 Harvard Graduate School of Design
<http://www.openletters-online.com/Archive-1>
- 2016 “Out of Time”
 in Mariana Ibañez and Inaki Ábalos (eds.) *Design or Organization? Contemporary Essays on Urbanism today* (ACTAR).
- 2016 “Is Landscape Infrastructure?”
 in Gareth Doherty and Charles Waldheim (eds.) *Is Landscape....? Essays on the Identity of Landscape* (London: Routledge): 190-227.
- 2015 *RISK ECOLOGIES: Report for a National Infrastructure of Disaster Evacuation Parks across Haiti's Valley of Vulnerability***
 co-authored with Miho-Mazereeuw
 (Cambridge, MA/Washington DC: MIT & Harvard University with the World Bank), 500pp.
- 2015 “Everything on the Table: Recovering and Reprojecting James Corner’s Lost Map”
Landscape Architecture Magazine (February)
- 2014 “The Other 71 Percent”, “Between the Tides of Apartheid”
 in *Harvard Design Magazine* 39 (Fall/Winter): 3, 162-168.
- 2014 “Ecology 5.0” in *New Geographies* 06 (Fall): 184-187.
- 2014 “Interview” *KERB* 22 (August Edition)

- 2013 “The Strategy of Urbanization: From Closed System Dynamics to Open Systems Ecologies” in *The Economy of Sustainable Construction* edited by Ilka & Andreas Ruby, and Nathalie Janson (Zurich, CH: Holcim Forum for Sustainable Construction): 253-266.
- 2013 *Landscape Infrastructure: Urbanism beyond Engineering* (PhD Dissertation) (Ede-Wageningen, the Netherlands: Wageningen University)**
- 2013 “The New Geographic Landscape” in *Landscape Architecture Frontiers* Vol.1 No.1 (February): 42-54. (Chinese/English)
- “Paesaggio Infrastrutture: Tra Pianificazione E Ingeneria” in *Nuove Ecologie A22* edited by Pino Scaglione & Mosè Ricci (pp.46-65) (Italian/English)
- 2012 “Logistics Islands: The Global Supply Archipelago and the Topologies of Defense” in *PRISM* Vol.3 No.4 (Fall): 55-76.
- 2012 *Depoldering Dordrecht: Strategies for the Urban Island of Dordrecht in the Dutch Delta Region* (map) co-edited with Nina-Marie Lister (Cambridge, MA: Harvard University Graduate School of Design)**
- 2012 "Landscape Infrastructure: Urbanism beyond Engineering" in *Infrastructure Sustainability & Design* edited by Spiro N. Pollalis, Daniel Schodek, Andreas Georgoulas and Stephen J. Ramos (London: Routledge): 276-315.** (English/Italian)
- 2011 "The Agronomic Landscape: A Brief 8,000-Year Timeline of Soil & Plants, Techniques & Technologies, Crops & Cultures, Empires & Urbanization" in *GAM 07* edited by Klaus Loenhardt (New York, NY: Springer): 166-183.**
- 2010 "Regionalization" in *JOLA - Journal of Landscape Architecture* (Fall): 6-23.**
- 2010 "Redefining Infrastructure" in *Ecological Urbanism* edited by Mohsen Mostafavi and Gareth Doherty (Baden, Switzerland: Lars Müller Publishers): 332-349.*
- 2009 "Power Perestroika" in *New Geographies 02 - Landscapes of Energy* edited by Rania Ghosn (Cambridge, MA: Harvard University Press): 119-124.*
- 2009 “Landscape as Infrastructure” in *Landscape Journal* Vol. 28 Issue 1 (Spring/Summer): 79-95.**
- 2009 "Peering into the Future: An Interview with Joseph E. Brown, AECOM" in *LAND Online - Landscape Architecture News Digest* (December 8).*
- 2009 "On Planning, Preservation, Pedagogy and Public Works: An Interview with Michael Hough" in *Landscapes/Paysages* Vol.11 No.4 (Fall): 26-28.*
- 2009 *Landscape Infrastructures: Emerging Practices, Paradigms & Technologies Reshaping the Contemporary Urban Landscape* - Symposium Proceedings DVD (editor), National Research Council of Canada Press (NRC): 439 min.** (editor)
- 2008 “Wasteland - A Visual Reportage of Kalundborg’s Waste Recycling Network In Denmark” in *Arcade* (Fall): 20-23.*

- 2008 "Venice Lagoon 2100" in *Concurso 2G Competition: Venice Lagoon Park* edited by Mónica Gili (Barcelona, Spain: 2G International Review, 2008)
- 2008 *Mapping Regional Infrastructures: Site Studies on the Decentralization of the Austrian Landscape*, Research Project Publication (Vienna, AU: Universität für Bodenkultur Wien - Department of Landscape, Spatial and Infrastructure Sciences): 68 pages.** (editor)
- 2007 "Landscapes of Disassembly: Emerging Waste Economies & Industrial Ecologies" in *Topos* No. 60 (October): 83-91.**
- 2007 "Foodshed: the Global Infrastructure of the Ontario Food Terminal" in *Food*, edited by John Knechtel (Cambridge: MIT Press): 208-239.*
- 2007 "Trash Topography" in *Canadian Architect Magazine*, Vol. 51 No.2 (January): 15-17.*
- 2007 "Underground Landscape: Stratigraphy of Downtown Toronto's Pedestrian Network" in *Tunnelling and Underground Space Technology* (Elsevier Science Publications): 272-292.**
- 2007 "Underground Urbanism: The Infrastructure of Toronto's Pedestrian Network" in *Underground Space: Expanding the Frontiers*, edited by D. Kaliampakos and A. Benardos, 11th ACUUS International Conference Proceedings (Athens, Greece: National Technical University of Athens): 329-366.**
- 2006 "Airspace: The Geopolitics of Landfilling in Michigan" in *Trash*, edited by John Knechtel (Cambridge: MIT Press): 132-135.*
- 2006 "Synthetic Surfaces" in *The Landscape Urbanism Reader*, edited by Charles Waldheim (New York: Princeton Architectural Press): 239-265.*
- 2006 *Wasteland: Reclamation & Diversion Strategies for Landfills in Michigan & Ontario*, Research Project Publication (Toronto, ON: Centre for Landscape Research, University of Toronto): 195 pages.** (editor)
- 2005 "Mobile Clinic: A Transportable Treatment Unit for Sub-Saharan Africa" (Piet Mazereeuw, alias) in *Transportable Environments III* edited by Filiz Klassen & Robert Kronenburg (London: Taylor & Francis): 200-202.**
- 2005 "Whatever Happened to Mobility? A Review of Maria Luisa Calabrese's Reweaving UMA: Urbanism, Mobility & Architecture, in *Topos* No. 51: 108-109.*
- 2004 "The U-Turn Studio" in *306090* No.7 edited by David L. Hays (New York: Princeton Architectural Press): 138-143.**
- 2003 "Highway Surface: A Brief History of the United States Interstate & Defence Highway System" (co-authored with Dennis Lago) in *Mobility: A Room with A View* edited by Francine Houben & Luisa Maria Calabrese (Rotterdam: NAI Publishers): 397-410.*
- 2003 "Knot City: Road Junctions in Metropolitan Bangkok" in *Art4D-Bangkok Art & Architecture* No.98 (November): 28.*
- 2001 "Lagos - Harvard Project on the City" (collaborative research project with Chuihua Judy Chung, Joshua Comaroff, Michael Cosmas, Sonal Gandhi, A. David Hamilton, Lan-ying Ip,

Jeannie Kim, Gullivar Shepard, Reshma Singh, Nathaniel Slayton, James Stone, Sameh Wahba) in Rem Koolhaas, Sanford Kwinter, Stefano Boeri, Nadia Tazi & Hans Ulrich Obrist, *Mutations: Événement Culturel sur la Ville Contemporaine* (Bordeaux: Arc en Rêve Centre d'Architecture): 650-719.*

- 2000 “Harvard Project on the City: West African Cities” (collaborative research project with Michael Cosmas, David Hamilton, Lan-Ying Ip, Jeannie Kim, Nathaniel Slayton and James Stone) in *Studio Works 8* (Harvard University Graduate School of Design Publication): 190-191.*
- 2000 “Ecological Infrastructures in the Greater Boston Metropolitan Area” in *Studio Works 7* (Harvard University Graduate School of Design Publication): 109.*
- 1999 “Amortizing Risk Over Time: Time Scale Transformation of an Inoperative Landfill in Lynn, USA” in Niall Kirkwood (editor) *Brownfields Case Studies* (Cambridge: Harvard University).*
- 1999 “Rotation and De-Activation: Landscape Management Strategies for the Kettle Ponds on the Cape Cod National Seashore” in *Studio Works 7* (Harvard University Graduate School of Design Publication): 75.*

RESEARCH REPORTS

- 2008 "Urban Water Economics" in *Toronto Green Development Standard Cost-Benefit Study* edited by Dr. Ted Kesik and Anne Miller, prepared for the City of Toronto Policy and Research, City Planning Department (October).
- 2003-06 "Environment & Economics" in *University of Toronto Capital Projects 1999-2006*, prepared for the University of Toronto.

SYMPOSIA, CONFERENCES & LECTURES

- 2015 “The Oceanic Turn” (*On Landscape, Infrastructure, Power*)
 TU Delft (The Netherlands)
 Carnegie Mellon University (Pittsburgh, PA)
 University of British Columbia School of Architecture & Landscape Architecture (Vancouver, BC)
 Strelka Institute for Design, Media, Architecture (Moscow, Russia)
 École d'Architecture de la Ville & des Territoires, Marne-la-Vallée (Paris, France)
 Universidad de Madrid (Spain)
 Catholic University Leuven (Belgium)
 University of Pennsylvania School of Design & Institute for Urban Research (Philadelphia, PA)
- 2014 “Moscow 5.0: Rings, Rivers, Regions”
 Moscow Urban Forum, Russia
- 2013-14 "Infrastructural Ecologies"
 Strelka Institute for Design, Architecture & Media, Moscow, Russia
 Rotterdam Architecture Biennale Symposia, The Netherlands
 AHO School of Architecture, Oslo, Norway
 TU Delft, the Netherlands
 City of Rotterdam, Urban Design Department

Département de La Protection Civile, Port-au-Prince, Haiti
Kulturlandschaft II Series, ETH, Zurich, Switzerland

“Urbanism, without Infrastructure?”

Infrastructure Monument Symposium, Center for Advanced Urbanism
 MIT, Massachusetts Institute of Technology Media Lab, Cambridge, US

“The Strategy of Urbanization”

A Preliminary Review of the 'World Problématique' and the Club of Rome's 1972th 'Limits to Growth'
 4th International Holcim Forum for Sustainable Construction, Mumbai, India

- 2012 *Landscape Infrastructure: Systems & Strategies for Contemporary Urbanization*
 Harvard Graduate School of Design
 (Conference Chair & Curator)
- 2011-12 "Landscape Infrastructure: Urbanism beyond Engineering"
 Architectural Association, London, UK
 Les Infrastructures Urbaines (Conférence) - Haute École du Paysage,
 d'Ingénierie et d'Architecture de Genève, CH
 École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, CH
Infrastructures Territoriales - Séminaire Phyllis Lambert, École D'Architecture, Université de Montréal, QC
Canadian Society of Landscape Architecture Annual Conference, Keynote Lecture, Vancouver, BC
 Institute for Advanced Architecture of Catalonia (IAAC), Barcelona, Spain
La Ciudad del Futuro Conference, Universidad Iberoamericana, Mexico
 Water Urbanisms Conference, Katholieke Universiteit, Leuven, Belgium
 Massachusetts Institute of Technology, School of Architecture & Planning
 American Planning Association, National Planning Conference, Boston, MA
Urban Fabric Lecture Series (Sasaki Associates), Watertown, MA
Now Urbanism Conference (Sawyer Seminar), Washington University, Seattle, WA
Territories of Urban Design, Harvard Graduate School of Design, Cambridge, MA
 Università IUAV di Venezia, Venice, IT
 University of California, Berkeley, CA
 Washington State University, Spokane, WA
- 2009-10 "Redefining Infrastructure"
 Massachusetts Institute of Technology
 Wageningen University, Alterra Institute, The Netherlands
 University of Illinois at Champaign-Urbana (Stanley White Lecture)
 North Dakota State University
 Ohio State University
- 2008 "Shit City: The Landscape of Waste, Industry and Urbanization in Denmark"
Ecological Urbanism Conference
 Graduate School of Design, Harvard University
- 2008 *Landscape Infrastructures*
Emerging practices, paradigms & technologies reshaping the contemporary urban landscape
 University of Toronto, Canada
 (Symposium Chair)
- 2008 “Landscape as Infrastructure”, University of Detroit-Mercy, Michigan
- 2008 “Underground Urbanism”, *Enlightened Underground Conference*, Amsterdam

- 2007 “Paysage Souterrain: L’Urbanisme & L’Infrastructure du Réseau Pédestre à Toronto”
Colloque Réseaux en Centre-Ville, Université de Montréal
- 2007 “Landscape as Infrastructure”, *Beyond the Picturesque* Symposium, Ghent University, Belgium
- 2007 “Underground Landscape: The Urbanism & Infrastructure of Toronto’s Downtown Pedestrian Network”, ACUUS Conference, Athens
- 2007 “Foodshed: The Cosmopolitan Infrastructure of the Ontario Food Terminal”, Design Exchange, Toronto
- 2007 “Landscape as Infrastructure”, *Articulating Landscape Urbanism*, Wageningen Life Sciences University, The Netherlands
- 2007 “Reflexive Urbanization” ACSA Fresh Air National Conference, Philadelphia, PA. Selected Regional Paper
- 2006 “Wasteland: Reclamation & Diversion Strategies for Landfills in the Great Lakes Region”, ACSA Regional Conference (Reconciliation/Remediation) University of Wisconsin-Milwaukee, Best Regional Paper Award
- 2006 “Operative Landscapes” (Lecture), Oslo School of Architecture, Norway
- 2005 “Ebute Ero & the Jankara Jetty: Reflexive Urbanization in Lagos”
Ciudad Informe (Informal Urbanization) Symposium, Universidad Jesuita de Guadalajara, Mexico
- 2005 “Operative Landscapes” (Lecture)
University of Toronto, Canada
Technical University of Delft, the Netherlands
- 2005 “Mobility, Medicine & Urbanization: A Structural Evolution” Keynote Address with Dr. Owens Wiwa & “Mobile HIV/AIDS Clinic: A Prevention & Treatment Unit in Nigeria”
American Telemedicine Association, *Mobile Health Clinics Forum*, Denver
- 2004 Design Forum Conference, Ulm, Germany
- 2004 “Knot City: A Geopolitical Survey of Transport Infrastructure in Cosmopolitan Bangkok”,
2nd International Conference on the History of Transport, Traffic and Mobility, Detroit
- 2004 “Mobile Clinic: A Transportable Treatment Unit for Sub-Saharan Africa”, *Transportable Environments III Conference*, Ryerson University, Toronto
- 2003 “The A13 Motorway Landscape” First Architectural Biennale, *Holland Avenue Symposium*,
Netherlands Architecture Institute, Rotterdam

EXHIBITIONS

- 2016 EXTRACTION
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(La Biennale di Venezia – *Reporting from the Front*, exhibit & film)

- 2014 “Risk Ecologies: Report for a National Infrastructure of Disaster Evacuation Parks across Haiti's Valley of Vulnerability”
Understanding Risk Conference, Karibe Hotel, Port-au-Prince, Haiti
- 2014 “The Future of the Slufter: Pre-Developing the Toxic Topography of the World's Largest Sludge Disposal Facility on the Edge of the North Sea”
Rotterdam International Architecture Biennale, Kunsthall, The Netherlands
- 2013 “Altitudes of Urbanization”
“Ground-to-Air: Landscape Investigations from the Orbital to the Intertidal”
Airport Landscape: Urban Ecologies for the Aerial Age, Harvard Graduate School of Design
- 2011 *Dübenholz: A Strategy for the former Dübendorf Military Airport in the Urban Valley of the Zurich Region*
Design Competition Exhibition, Zurich Theatre of the Arts, Switzerland
- 2010 *Sea Change 2030+* Design Competition Exhibition, Customs House, Sydney Harbour, Australia
- 2010 "Ecologies of Scale", *Faculty Project* Exhibition, Gund Hall, Graduate School of Design, Harvard University
- 2009 World Sustainability Design Competition Finalists, ARK Fryslan, Leeuwarden, The Netherlands
- 2007 2G Venice Lagoon Design Competition Finalists, Venice Architecture Biennale, Italy
- 2007 “Foodshed: Global Infrastructure of the Ontario Food Terminal”, Growing Toronto's Foodshed, School of Urban and Regional Planning, Ryerson University, Toronto, Canada
- 2007 “Transporting Columbus: A Proposal for a Contemporary Transportation Infrastructure in Suburban Columbus, Ohio”, Columbus Re-Wired Design Competition, Knowlton School of Architecture, Columbus, OH
- 2006 “Driving Surface: From the Art of Highway Signage towards an Architecture of the Road”
The Cooper Union School for the Advancement of Science and Art, Driving Forward: Re-Envisioning Transportation Signage Competition, New York, NY
- 2006 Steedman Fellowship in Architecture Competition, Givens Hall, School of Architecture, Washington University in St. Louis, St. Louis, MI
- 2005 “Wasteshed: The Landscape & Economies of Landfills in Michigan”, *Cartographies of Globalization*, School of Creativity & Inquiry Gallery, Toronto, ON
- 2005 “Airspace: The Operational Ecologies of Carleton Farms Landfill”, *Faculty Work* Exhibition, University of Toronto (on permanent display at the Carleton Farms Landfill in New Boston, Michigan)
- 2005 “Circulation City: Low-Altitude Helicopter Photography in the GTA”, *Landscape Regionalism* Conference, University of Toronto
- 2004 “Mobile HIV Aids Clinic”, 3rd Annual Conference & Exhibition on *Portable Architecture & Design*, Ryerson University, Toronto

2003 “U-Turn Studio”, *International Architecture Biennale*, Netherlands Architecture Institute, Rotterdam

1999 “Reverse Ecology: The Management of Kettle Ponds on the Cape Cod National Seashore”,
Primo Luogo Biennale de Paisatge, Barcelona

GRANTS & AWARDS * invited ** peer review

2016 Director’s Award, Canada Pavilion, Venice Architecture Biennale**

2016 Publication Grant, Ontario Association of Architects

2015 Publication Grant, Landscape Architecture Canada Foundation

2015 HILT Spark Grant**

2014 Asia Center Research Grant, Harvard University**

2013-08 Doctoral Studies Fellowship, Wageningen University**

2013 Graham Foundation for Advanced Studies in the Fine Arts – Publication Grant**

2013 Radcliffe Institute for Advanced Study - Exploratory Seminar**

2011 Netherlands Architecture Fund, Belvedere Project Fund**

2011 William F. Milton Fund, Harvard Medical School **

2011 Research Grant in Architecture, Boston Society of Architects**

2010 Honor Award, Communications Category, American Society of Landscape Architects**

2010 Planning Award, EDRA - Environmental Design Association / Metropolis Magazine
Great Places**

2010 Dean's Junior Faculty Grant, Graduate School of Design, Harvard University*
"The Military-Industrial Landscape: Design, Planning & Engineering
the Next American Century"

2007-10 Research & Design Grant, Netherlands Architecture Fund**
"Maasvlakte 2100: A Long-term Design Strategy for the Port Lands of Rotterdam"

2008-09 Professional Prix de Rome in Architecture, Canada Council for the Arts**

2008 National Research Council Canada – Publication of Conference Proceedings Assistance**
Landscape Architecture Canada Foundation - Publication Grant**
(Landscape Infrastructures DVD)

2008 Social Sciences & Humanities Research Council**
Aid to Research Workshops and Conferences in Canada**
Landscape Architecture Canada Foundation Grant**
Ontario Association of Landscape Architects Exhibition**

- Connaught Support for International Symposia/Colloquia**
(Landscape Infrastructures Symposium)
- 2008 Design Research Grant, Stimuleringsfonds voor Architectuur (Belvedere Projects)**
- 2007 Urban Site Technologies Research Grant, Ontario Centres of Excellence**
- 2003-05 Design Research & Travel Grant, International Trade Canada, Global Science & Technology Fund**
- 2004 Prototype Design & Development Grant, DaimlerChrysler, Mercedes-Benz, Binz-Ambulanz & Dahon International**
- 2003 Design Research Lab, Canada Foundation for Innovation New Opportunities Fund**
- 2003 Design Research Grant, Structural Genomics Consortium – Photosynthetic Roofscape*
- 2003 Travel Award, Canada Council for the Arts – Métis International Garden Festival**
- 2002 Exhibition & Travel Award, Netherlands Architecture Institute – Rotterdam Biennale*
- 2001-03 Design Research Grant, Moving On Sustainable Transportation Program, Transport Canada**
- 2001 Exhibition Fund, Tokyo Architects' Museum*
- 2000 Materials Research Grant, Connaught Fund for New Faculty, University of Toronto*
- 2000 Norman T. Newton Design Prize, Harvard University
- 1999 Industrial Ecology Research, Penny White Traveling Fellowship, Harvard University
- 1999 Janet Darling Webel Design Prize, Harvard University
- 1999 Graduate School Teaching Fellowship, Harvard University
- 1998 Export A Landscape Architecture Scholarship, Canadian Golf Foundation
- 1996 Canadian Society of Landscape Architects Silver Medal, University of Toronto
- 1996 American Society of Landscape Architects Certificate of Honour, University of Toronto
- 1994 Landscape Architecture Endowment Scholarship, University of Toronto
- 1993 Gotfryd Landscape Architecture Scholarship, University of Toronto

COMPETITIONS

- 2016 EXTRACTION

Canada Pavilion, Venice Architecture Biennale

- 2014/15 *Pamphlet Architecture 35* “Small Manifestos for Tomorrow”
Finalist & First Prize, Publication Award with Princeton Architectural Press
- 2011/12 *Dübenholz: A Strategy for the former Dübendorf Military Airport in the Urban Valley of the Zurich Region.*
Denkallmend, Bristol Foundation, University of Zurich, Hamburg University of Architecture and Metropolitan Development, and Zurich University of the Arts
Finalist, First Prize
- 2010 *Subtropical Sydney: Projecting the Future of Sydney’s Next Urban Century with an Intertidal Infrastructure for the Metropolitan Region*
Sea Change 2030+ Design Competition, Australian Institute of Landscape Architects, in collaboration with New South Wales Government Agency of Planning, the Department of Environment, Climate Change & Water
Finalist, First Prize
- 2009 *Energy Dike: Proposal for a Blue Energy System along the Afsluitdijk in the Netherlands*
World Sustainability Centre Competition, The Netherlands
Finalist, Honorable Mention
- 2008 *Venice Lagoon 2100: A Strategy for the Development of the Venice Lagoon using Intensive Aquacultures*
2G Venice Lagoon Park Competition, Barcelona, Spain
Finalist, Honorable Mention
- 2007 *Transporting Columbus: A Proposal for a Contemporary Transportation Infrastructure in Suburban Columbus, Ohio*
Columbus Re-Wired Design Competition, American Institute of Architects, Columbus, OH
Finalist, Honorable Mention
- 2007 *Geo-Therms: A Proposal for a Network of Naturally-Heated Thermal Pools in the foothills of the Italian Alps*
The Heights of Design Competition, Piedmont, Italy
Finalist, Second Prize
- 2007 *Hadspen Hive: A Proposal for the Implementation of a Regional Apicultural System*
Hadspen Parabola, Somerset, UK
Finalist
- 2007 *Buckingham Circle*
Chicago Burnham Prize Competition sponsored by the Chicago Architecture Club, US
Finalist, Honorable Mention
- 2006 *Wasteland: Reclamation & Diversion Strategies for Landfills in the Great Lakes Region.* Environmental Tectonics Competition sponsored by the Architectural Association, London, UK
Finalist, Honorable Mention

- 2005 *Subteranium*
Steedman Fellowship in Architecture International Design Competition
Finalist, Honorable Mention
- 2006 *Shit City: Aerial Distribution of Compost & Earthworks Strategies for Philadelphia.*
Urban Voids international Design Competition, Van Alen Institute
- 2005 *Borderless Landscape, Ciudad Juárez - El Paso.* International Design Ideas Competition, Arquine
- 2004 *Macroscope: A Mobile Observation Platform,* 5th International Festival, Jardins de Métis, Québec
Finalist
- 2003 *Wall to Ramp.* Historic Wall Competition, Centre for Addiction and Mental Health Competition, Toronto
- 2002 *Mobile HIV/AIDS Clinic.* Architecture for Humanity & Van Alen Institute Exhibition, NY
- 2001 *Megalandfill for the Next Millennium.* Fresh Kills Landfill to Landscape Competition, NY

COURSES, SEMINARS & WORKSHOPS

- 2015 *Ecology, Infrastructure, Power*
Sourcing the Scales & Systems of a Global Resource Empire
Advanced Landscape Infrastructure Research Seminar
- 2014 *The Oceanic Turn*
Advanced Landscape Infrastructure Research Seminar
- 2009-14 *Landscape Architecture Design III* – Core Studio Coordinator, MLA Program
Workshops on Geospatial Modeling, 3D Topographic Modeling and Surface Prototyping for Designers
- Theories of Landscape as Urbanism, Landscape as Infrastructure*
Core Graduate Course & Elective - MLA, MUD, MArch & ASP Programs
- Ecologies, Techniques, & Technologies* - Core Graduate Course, MLA Program
- Indexing Ecologies & Indexing Topographies (Workshops)* - Core Graduate Course, MLA Program
Harvard Graduate School of Design, Cambridge, US
IAAC, Barcelona, Spain
BOKU, Vienna, Austria
- 2010 *The Military-Industrial Landscape*
Advanced Research Seminar
- Depoldering Dordrecht*
Strategies for the Urban Island of Dordrecht in the Dutch Delta Region
Design Studio Option, Master of Landscape Architecture, Urban Design and Planning, Third Year

2004 *Urban Site Technologies*, Core Elective Course, Master of Landscape Architecture, Third Year

VISITING PROFESSORSHIPS

2012 Institute for Advanced Architecture of Catalonia (IAAC), Barcelona, Spain
Landscape Infrastructure Workshop

2008 BOKU Life Sciences University, Vienna, Austria
Landscape Infrastructure, Design Research Seminar

PUBLIC WORK

2015-2016 Furtei Gold Mine – Public Minescape
Planting & Remediation Strategies for an Abandoned Gold Mine in Sardinia
as UNESCO Geomineral Park
IGEA S.P.A., Sardinia, Italy

20013-15 Haiti Evacuation System Infrastructure
Infrastructural Strategies & Spatial Elements for a National System of Evacuation Parks
Collaborators: Harvard, MIT, Hannover Leibniz University, World Bank, Civil Protection (Haiti)

2008-2012 Maasvlakte 2 & de Slufter, Rotterdam, the Netherlands
Sludge Disposal Facility Remediation/Replanning, Land Economics,
Long Term Planning, Metabolic Design
Collaborators: Port Authority of Rotterdam, Rijkswaterstaat, Ove Arup,
NYFER Forum for Economic Research, Wageningen University

2003-10 A20 Motorway & YYY Airport Landscape, Mont-Joli, Québec
Gyratory Junction Engineering, Building Relocations, Earthworks Design and Transportation
Strategies for the TransCanada Highway
Collaborators: Mont-Joli (YYY) Airport Authority, Jardins de Métis, Métis Regional Authority,
Québec Department of Transportation, Canadian Tourism Commission

2004-2008 Ontario Food Terminal, Etobicoke, Ontario
Hydrological System Design, Operational Surface Planning & Construction
Collaborators: Ontario Food Terminal Board, City of Toronto Wet Weather Flow Management
Program, City Beautiful Program, Toronto Region Conservation Authority

2007 Ellesmere Skatepark, Scarborough, Ontario
Earthworks Design, Cut/Fill Economics & Robotic Earthmoving
Collaborators: City of Toronto Parks & Public Works, Spectrum Creations, PGM Design,
Éric Meunier, Pine Valley Entreprises, New Canadian Rd. Residents' Association

2002-08 Mobile HIV Clinic, Nigeria
Design & Construction of a Mobile Clinic
Prototype for the Prevention of HIV/AIDS in rural areas of the Niger River Delta Region
Collaborators: Health Matters Inc., Ford Foundation, AFRIDA, CIH University of Toronto,
Daimler-Chrysler, Binz Ambulanz, Dahon. Department of Foreign Affairs & International
Trade Global Science & Technology Program

2006-08 Grange Park & John Street, Toronto

Public Space Design Strategies & Urban Planning
 Collaborators: City of Toronto Parks Department, Art Gallery of Ontario, Ontario College of Art & Design

- 2005-06 Banting Research Institute, University of Toronto
 Green Roof Planning and Design for over 300 researchers and laboratory workers.
 Collaborators: Structural Genomics Consortium, University of Toronto
- 2003-04 Community Bicycle Network, Toronto
 Mapping of Detailed Street Surfaces, Markings, Transitions, Layouts & Conflict Zones
 Collaborators: City of Toronto Chief Coroner, Advocacy for the Respect for Cyclists (ARC), Community Bicycle Network (CBN), Ministry of Transportation Moving on Sustainable Transportation Program
- 2002-2012 Jankara Market, Lagos, Nigeria
 Land Grant Application & Property Acquisition for Extra-Formal Materials Market
 Collaborators: Lagos Island Market Women's Association, Nigerian Institute of Town Planners, Nigeria Federal Government Department of Planning, Research & Statistics, University of Lagos School of Architecture

MEMBERSHIPS, ASSOCIATIONS & BOARDS

- 2012- Jardin International de Métis Board (Québec)
- 2009- Stichting Bureau Architectenregister (Netherlands)
 Landscape Architect & Urban Planner Registration 3.050615.001
- 2009- American Society of Landscape Architects (US)
 Landscape Architect Registration No.1087767
- 2008-11 Ontario Food Terminal Board (Ontario Public Appointments Secretariat, Canada)
- 2007-11 Toronto Region Conservation Authority (Etobicoke-Mimico Watershed Coalition)
- 2006- Surface Miner Program #770210, Canada Department of Natural Resources
- 2003- Ontario Association of Landscape Architects
 Canadian Society of Landscape Architects (Professional Member)
 Landscape Architect Registration No.5401036