

Carl Lostritto

CV

Education

Master of Science in Architectural Studies, Design & Computation, MIT, 2012

Master of Architecture, University of Maryland, 2008

B.S. summa cum laude, University of Maryland, 2006

Academic Appointments

Rhode Island School of Design

Graduate Program Director, 2017–present

Associate Professor, 2019–present

Assistant Professor, 2012–2019

Massachusetts Institute of Technology

Instructor, 2012–2013

Boston Architectural College

Adjunct Faculty, 2011–2012

Catholic University of America

Adjunct Faculty, 2010

University of Maryland

Adjunct Faculty, 2008–2010

Book

Computational Drawing: From Foundational Exercises to Theories of Representation. Applied Research + Design Publishing. March, 2019.

Book Chapters / Book Contributions

The Philosophy of Dumbness. Contributed essay, “Modest Computation: Programming Drawing Assistants.” Edited by Joseph Choma. ORO Editions (Forthcoming).

Computer Architectures: Constructing the Common Ground. Cover art and statement referencing practice and scholarship. Published by Routledge and edited by Olga Touloumi and Theodora Vardouli. (Forthcoming)

Drawing Futures. Contributed essay, “A Collection of Circle-Spheres: A Pre-Digital Post-Digital Convergence.” Edited by Frédéric Migayrou, Laura Allen, and Luke Pearson. UCL Press. November, 2016.

Journals

“Three Post Digital Elements of Architecture: The Smoke Box, the Hatched Hatch, and the Curtain Wall.” *See/Saw Issue 02: Difference*. Edited by Ben Dooley, University of Maryland School of Architecture Planning & Preservation. 2020 (Forthcoming)

“Computational Hatching.” *Journal Of Architectural Education*. Volume 70 issue 1 March 2016. Edited by Amy Kulper.

“How to make sure that time, force and flaws don’t disappear, despite the computer.” *The Draftery Draftery Fig. 03: That then Disappear in the Building of It*. Edited by Athanasiou Geolas and Jesen Tanadi. 2013.

“Cute Little Drawings.” *Mole Magazine, Cute Little Things*. Issue 1. Waterloo Publishing Group. 2013.

Digital Craft and Architectural Geometry. Edited by Carl Lostritto with Contributions by Moa Carlsson and Marie Law Adams. BAC, 2013.

“The Definition, Necessity, and Potential of Drawing Computation.” *Dosya 29, Computational Design*. Onur Yüce Gün, Editor. 2012

“Rendering Drawing” *CLOG: Rendering*, August 2012. Kyle May, Editor.

“Drawn Animations.” *Testing to Failure*. Sarah M. Hirschman, Editor. SA+P Press. 2011. Page 372

- “Animate Topologies, Blending media and Architecture.” 2007-2008 *formZ Joint Study JOURNAL 16, Partnerships in Learning*. With Michael Ambrose.
- “Introductory Digital Design Seminar: Thinking and Making.” 2007-2008 *formZ Joint Study JOURNAL 16, Partnerships in Learning*. With Mark Ramirez.

Editorial Essays

- “The Value of Randomness in Art and Design.” *Fast Co. Design*. October 15, 2015.
- “Drawing Connect Four Strategy.” *Code Studio Pamphlet* response to Lev Manovich Lecture. 2014.
- “[mis]representations.” *_module*, Pilot. University of Maryland School of Architecture, Planning & Preservation. 2005.

Conference Papers

- “Flat Spaces and Deep Planes: Evaluating the Spatial Potential of Two-dimensional Computationally Generated Visual Stimuli.” *Proceedings of 2011 Spatial Cognition for Architectural Design*. With Theodora Vardouli. 2010
- “Teaching Systems Thinking Through an Algorithmic Process.” *Arab Society of Computer Aided Architectural Design*. Manama, Bahrain, 2009.
- “Scripting Animation: Toward the Capture of Computational Topologies and Articulation of Change.” *Computer Aided Architectural Design and Research in Asia*. Taiwan, 2009.
- “Animate Education: Early Design Education Pedagogy.” *Computer Aided Architectural Design and Research in Asia*, Chiang Mai, Thailand, 2008. With Michael A. Ambrose and Luc Wilson.
- “CubeExplorer: An Evaluation of Interaction Techniques in Architectural Education.” *INTERACT 2007*, Rio de Janeiro, Brazil. With Hyunyoung Song, François Guimbretière and Michael A. Ambrose.

Bibliography

- “Step into the changing world of drawings,” by Pamela Buxton for The RIBA Journal. September 30, 2019.
- “The Art of the Machine: Computational Drawing, A new book by Carl Lostritto.” by Ayesha Habib for *Nuvo Magazine*, June 14, 2019.
- “Why Architecture?” AIA Feature by Mimi Kirk for *Architect Magazine*. February 07, 2018
- “Top Art Schools Venturing Online” by Emily Tate for *Inside Higher Ed*. April 05, 2017.
- “Where Computation + Culture Converge” by Robert Albanese for RISD Media Group. June 13, 2017
- “5x5 Exhibit: Participatory Provocations” Zach Mortice for *Architect magazine*. March 11, 2016.
- “Twenty five architects tackle five current issues with 25 models in this Illinois exhibition” Matthew Messner for *Architects Newspaper*. February 18, 2016.
- “What is Architecture to you? RISD Art Circle Interviews Carl Lostritto.” Organized by Hollis Mickey, Assistant Educator, Gallery Interpretation at RISD Museum. 2015.
- “Code As Bureaucracy: Art Hack Day Takes on Artificial Intelligence.” DJ Pangburn for *The Creators Project*. December 1, 2014.
- “Man vs. Machine ‘Connect Four’ Games Become Beautiful Line Drawings.” DJ Pangburn for *The Creators Project*. November 14, 2014.
- “The Draftery: Dispelling the Belief That Architectural Drawing is Dead.” James Taylor-Foster for *Arch Daily*. June 04, 2014.

Exhibitions

- Vers une imaginaire numérique*, Group exhibition at Centre de design de l’UQAM in Montreal. Daniel Cardoso Llach, Lead Curator. Originally scheduled for Summer 2020. Postponed to January-February 2021 due to pandemic.
- The Fruits of Algorithms*, Solo Exhibition at University of Kentucky College of Design. Liz Swanson, curator. November 2019.
- Math+Art*. Group show at Brown University Granoff Center curated by the Illustrating Mathematics

Organizing Committee at the Institute for Computational and Experimental Research in Mathematics at Brown University. November 2019.

Drawing Attention: The Digital Culture of Contemporary Architectural Drawings. Group show at Roca Gallery, London. Jeremy Ficca, Grace La and Amy Kulper, curators. September 2019.

Drawing for the Design Imaginary, exhibition at ACSA BLACK BOX: Articulating Architecture's Core in the Post-Digital Era, Pittsburgh, PA. Jeremy Ficca, curator. March 2019.

SEE-ING: The Environmental Consciousness Project. Symposium and Exhibition. Storrs Hall and Gallery. Catty Dan Zhang, curator. October 2018.

Mastery and Uncertainty, The Drawings of Architecture. Group show at the Faculty of Architecture Campus in Tournai, Université catholique de Louvain. David Vanderburgh and Marie Pirard, curators. January 2018.

Designing the Computational Image / Imagining Computational Design. Miller Gallery of Contemporary Art. Pittsburgh, PA. Daniel Cardoso Llach, guest curator. October 2017.

An Exhibit of the Abstract Technical. RISD BEB Gallery, Providence, RI. Emanuel Admassu, curator. September 2017.

When The Drawing Is Moving. Solo exhibit at Night Gallery, Chicago, IL. Craig Reschke and Ann Lui (Future Firm) curators. 2017.

A Happening of the Abstract Technical. Group open studio and performance with Ania Catherine, Jessica Emmanuel, and Mike Nesbit. Rooftop, 308 E 9th St., Los Angeles, CA. June 2017

Landlines. Partnered exhibit with Lucy Siyao Liu at MIT Keller Gallery, Providence, RI. Irina Chernyakova, curator. 2016.

5x5 Participatory Provocation. Group exhibit. Curated by Julia van den Hout, Kevin Erickson, and Kyle May. Center for Architecture, New York, NY. 2017. Omi International Arts Center. Ghent, NY. 2017. RISD Bayard Ewing Building Gallery. Providence, RI. 2016. Cleveland Urban Design Collaborative, Cleveland, OH. 2016. Temple Hoyne Buell Hall Gallery at the University of Illinois. Urbana-Champaign, IL. 2015

Storm Drawing. Partnered exhibit with Kyna Leski at RISD BEB Gallery, Providence, RI. Aaron Forrest and Emanuel Admassu, Curators. 2015.

Hagerty House 1.011. Exhibit with Robert Sugar at AIA|ri Gallery, Providence, RI. Ian Baldwin and Vada Seccareccia, Curators. 2015.

Faculty Biennial. Group exhibit. RISD Museum. Providence, RI. Mark Moscone, Curator. 2015

Parameters of Time: Computing and Drawing Slowly. Solo exhibit at the University of Maryland Linear Gallery. College Park, MD. Ronit Eisenbach, Curator. 2014.

Swell. Group exhibit at GRIN. Providence, RI. Corey Oberlander and Lindsey Stapleton, curators. 2013.

Fig.03: That then Disappear in the Building of It. Group exhibit by The Draftery at The Gallery at Sasaki. Watertown, MA. Athanasiou Geolas and Jesen Tanadi, Guest Curators. 2013.

Drawing Surfaces. Solo exhibit and installation at NADAAA Gallery. Boston, MA. Katie Faulkner, Curator. 2013.

Faculty Biennial. Group exhibit. RISD Museum. Providence, RI. Mark Moscone, Curator. 2013.

Permanent Collections

Drawing Archive, Architecture Faculty in Tournai, Université catholique de Louvain

Lectures, Presentations & Workshops

“print(‘hello Woodury’)” Lecture to Woodbury University School of Architecture and Applied Computer Science Program. April 2020.

“Text, Codes, Lines and Marks: Computational Drawing as Material Craft” Lecture to University of Mazandaran Department of Architecture. December 2019.

“Text, Codes, Lines and Marks: Computational Drawing as Material Craft” lecture at University of Kentucky College of Design. November 2019.

Math+Art. Panel Discussion at Illustrating Mathematics event series organized by the Institute for Computational and Experimental Research in Mathematics at Brown University. November

2019.

Public Lecture to *Drawing and Architectural Form* course taught by Victor Agran at Yale School of Architecture. November 2019.

“Casual Computing and Formal Drawing” lecture at Lawrence Tech University College of Architecture and Design. October 2019.

Visual Studies Panel Discussion, University of Pennsylvania Department of Architecture. Nate Nume, organizer. October 2019.

“Radical Computational Ambivalence” lecture at UCLA Architecture and Urban Design. May 2019.

“Neural Net Fatigue: the Case for Making Software the Old School Way” *Ouss qu'on s'en va?* Colloquium hosted by McGill University Peter Guo-hua Fu School of Architecture, Montréal, QC. March 2019.

“Computing in the Far Future Tense” lecture at the University of Florida School of Architecture. March 2019.

“Ink Bleeds Though Paper: Methods and Theory for Maintaining Contradictory Conceptions of Line” at Disegno2018, (in)determination session moderated by Anelka Cirovic. David Vanderburgh and Marie Pirard, conference chairs. January 2018.

Gallery talk at *Critical Encounters: Lines of Thought*, RISD Museum with Masha Ryskin. November 2017.

“Drawing Thickness” CPPLA + CPPARC Lecture Series. Cal Poly Pomona. November 2017.

“Cutting Edge Nostalgia: Rhino-Controlled Vintage Pen Plotters” Workshop at Computational Design Practices, Histories, Infrastructures. Daniel Cardoso Llach, conference chair. October 2017.

“Beyond Nostalgia: drawing discipline from the brief pen-plotter era” Lecture at Computational Design Practices, Histories, Infrastructures. Daniel Cardoso Llach, conference chair. October 2017.

“Analog and Digital: Drawing, Computing, Technology and Culture Across Multiple RISD Curricula” Computational Foundations Colloquium, Iowa State University. Shelby Doyle and Nick Senske, conference chairs. April 2017.

“While Drawing: All Spheres are Circles, All Circles are Spheres; All Artists are Scientists, All Scientists are Artists.” At Drawing Futures Conference, Bartlett School of Architecture, University College London. November 2016.

“Design Processes that Merge Drawing and Computing.” Najmi Bilgrami Collaborative, Karachi, Pakistan. 2016.

“How Drawings Become Architectural Drawings.” Indiana University Center for Art+Design. Drawing and the Brain Symposium. 2016.

“Methods and Media for Drawing Shapes, Surfaces, and Storms.” Maryland Institute College of Art, Department of Architecture Lecture Series. 2015.

“Remix Architecture, Drawing the Hagerty House Version 1.011.” Gallery talk with Robert Sugar at AIA|ri exhibit. Providence, RI. 2015

MattersLAB 3, Robots: Real and Imagined, co-instructor of 4-week workshop (With Jeff Landman, Lisa LaCharite, and Kate Cho) Seoul, South Korea. July 2015.

“Drawing as Architecture,” Galley conversation with Perry Kulper. Moderated by Beau Johnson. *Critical Encounters: Drawing in Architecture* symposium. RISD Museum. Jan Howard and Igor Marjanovic, co-curators of *Drawing Ambience* exhibition. 2015.

tool() Forum, co-organizer of symposium with Joy Ko, exhibitor and moderator of Artisan Toolmaker Session. 2014.

“Data Visualization Without Data.” World Economic forum. WEF+RISD Salon, *(Y)our Data*. 2013.

“Computing And Drawing Slowly, Under the Hood.” University of Maryland. Gallery talk. 2013.

“Designing and Computing: Some Lines Going for a Walk.” MIT Department of Architecture, Design and Computation Public Lecture Series. 2013.

“The Computer Did it, Revising Conceptions of Authorship Given Pervasive Digital Media.” Corcoran College of Art + Design. Shared Voices Series. 2012.

“Tracing Computing Culture, Pre-digital to Post-digital.” RISD Department of Architecture Lecture Series. 2012.

“Programming as Design: Creating Drawings, Mediating Human Input and Controlling Machines.” Lecture and Workshop at College of Arts and Architecture, Stuckerman Center for Design Computing at Pennsylvania State University. 2012.

“Programming Media.” NADAAA Inc., Professional Seminar Series. 2011.

“Being Parametric,” Advanced Digital Graphics Studio, open lecture. Corcoran College of Art + Design. 2009.

Invited Design Reviews and Guest Lectures to Courses

Boston Architectural College (Joseph Choma studio, Guerra Pastrían + Pérez Ramos studio, Greg Nemes Studio)

Columbia University GSAPP Architectural Drawing and Representation II (Kurgan, Leung, Wilson studio)

Catholic University of America, (Luis Boza M.Arch studio, Elizabeth Emerson studio)

Corcoran College of Art + Design (Jonathan Healey studio)

Cornell University (Naomi Frangos studio)

Maryland Institute College of Art (Malcolm Rio foundation studio)

MIT Architecture (Cristina Parreño Alonso Studio, William O’Brien Jr. Studio, Ryan Murphy studio)

MIT Architecture Bachelor of Science in Architecture Thesis Reviews (Meejin Yoon, Coordinator)

MIT Media Lab / Architecture Department, (Design Across Scales Seminar, Meejin Yoon and Neri Oxman)

Parsons The New School for Design, Architecture Department (Nick Brinnen Studio)

Pratt Institute (Michael Su, Coordinator, Undergraduate Degree Project)

RISD Department of Teaching + Learning in Art + Design (Nancy Friese Seminar)

RISD Department of Graphic Design (Lucinda Hitchcock, Department Head)

RISD Department of Interior Architecture (Michael Beaman Studio)

RISD Department of Painting (David Frazier, Department Head)

RISD Division of Experimental and Foundation Studies (Kai Franz/Mark Milloff Studio)

University of Hartford Department of Architecture (Daniel Davis studio)

University of Maryland (Michael Ambrose studio, Colleen Gove Healey studio)

University of Southern California (Iman Ansari Studio, Lisa Little Studio)

University of Tennessee Knoxville (Jason Young, Director)

Design Consultancy Practice

Selected partners, clients, and projects:

Ultramoderne, Providence, RI. MoMA PS1 competition finalist project, Recess (Computation and representation consulting)

Providence Design Co-op, Kaleidoscope-Periscope public art project with Tom Beresford and Lisa LaCharite (Architectural and computational design)

NADAAA Inc., Boston, MA. (Parametric modeling and web coding)

Princeton Architectural Press (Campus Map cartography and design for MIT campus guide book)

Grants, Honors and Awards

PopUp Providence, Public Art Grant, Department of Planning, City of Providence, RI

RISD 2050 Fund, Code Studio Event Series

Education Committee Research Grant, The Boston Architectural College

Thesis Prize, School of Architecture, Planning and Preservation

Alpha Rho Chi Bronze Medal, School of Architecture, Planning and Preservation

Distinguished Teaching Assistant Award, Center for Teaching Excellence

Interdisciplinary Multimedia and Technology Citation, University of Maryland

Chancellor’s academic excellence scholarship, University of Maryland

Media, Self and Society Scholars Citation, College Park Scholars, University of Maryland

Academic Service

RISD Director of Master of Architecture Program, 2017-present

RISD Search Committee: Assistant Director of Graduate Studies

Advisor to the RISD Department of Jewelry + Metalsmithing visiting committee

RISD Faculty Search Committee: Division of Experimental and Foundation Studies Drawing Program faculty
RISD Strategic Plan Core Committee
RISD Strategic Plan Publishing Lab working group
Developer of the RISD Computation, Technology & Culture undergraduate concentration
Coordinator of the RISD Making of Design Principles sophomore and graduate level studios
Coordinator of RISD Architecture Department drawing and representation curriculum
RISD Department of Architecture Travel Award organizer
RISD Department of Architecture Visual Identity Working Group
RISD Academic Computing Advisory Committee, Chair
RISD Department of Architecture Graduate Admissions Committee
RISD Department of Architecture digital archive, organizer
RISD Department of Architecture web curator, programmer, and advisor
RISD Department of Architecture secondary thesis advisor
RISD Department of Architecture academic advisor
RISD Faculty Search Committee: Division of Experimental and Foundation Studies Spatial Dynamics Program faculty
RISD Science Planning Group
RISD Department of Architecture Graduate Program sub-committee
RISD Faculty Search Committee: Department of Architecture faculty
RISD Representative to Graduate Portfolio Day. San Francisco, CA
RISD Representative to Graduate Portfolio Day. New York, NY
RISD Representative to Boston Society of Architects College Fair. Boston, MA
RISD Undergraduate Admissions Committee
MIT SMArchS Admissions Committee, Design and Computation Group
MIT Design and Computation Group, Forum Co-organizer
University of Maryland School of Architecture, Planning and Preservation. Exploring Architecture at Northwestern High School, Architecture in the Schools Program, collaboration with Prince Georges County Public Schools
University of Maryland Architecture Program Admissions Committee, Bachelor of Science in Architecture Studio Sequence
University of Maryland Architecture Program Admissions Committee, Master of Architecture
University of Maryland Architecture Program Curriculum Committee
University of Maryland Architecture Program Academic Studio Culture Task Force

Professional Service

March 2019. ACSA Conference and 107th annual meeting, "Black Box." Paper session Chair of "Black Box" with Assistant Professor of Architecture James Michael Tate.
Association for Computer Aided Design in Architecture, Disciplines & Disruption Conference Technical Chair
Association for Computer Aided Design in Architecture, Disciplines & Disruption Conference Reviewer

Courses Taught

Advanced Studio (All that is Solid Melts Into Air) RISD 2019
Architectural Analysis, RISD, 2013, 2014, 2015, 2019
Making Discourse (Graduate Seminar), RISD, 2017, 2018, 2019
Making of Design Principles (Grad Core 1 Studio), RISD, 2018
Thesis Project, RISD, 2018
Thesis Seminar, RISD, 2017
Introduction to Computation, RISD, 2017
Advanced Studio (Computation drawing research) 2013, 2014, 2015, 2016
Architectural Projection, RISD, 2012, 2013, 2014, 2015

Computation, Technology & Culture Capstone Research Studio, RISD, 2015
Coding Architecture, RISD 2015
Making of Design Principles (Grad + Undergrad Core 1 Studio) RISD, 2012, 2013, 2014, 2015, 2016
Introduction to Architecture, MIT, 2013, 2014
Advanced Studio: Architectural Geometry, The BAC, 2012
Advanced Studio: Drawing Computing, The BAC, 2011, 2012
Digital Media Concentration Studio, Catholic University, 2010
Digital Media Concentration Seminar, Catholic University, 2010
Architecture Studio 1 (Grad Core), UMD, 2009
Surface+Skin Elective Studio, UMD, 2009
Architecture Studio 1 (Undergrad Core), UMD 2008
Computer Applications in Architecture, UMD, 2008, 2009
Exploring Architecture, UMD 2006, 2007

Independent Study Advising

Independent Study: 3-D Lines, An Abstraction of the Third Order (Julie Kress, M.Arch) RISD, 2019
Independent Study: Designing The Cosmos (Jesus Melendez Vazquez, M.Arch) RISD, 2019
Collaborative Study: The Portfolio is Not Dead (Petter Heller, Haoning Li, Zachary Schumacher, Eamon Wagner, M.Arch) RISD 2019
Collaborative Study: The Reading of Lines through the Looking Glass (Feiyi Bie, M.Arch, and Marco Aguirre, B.Arch) RISD 2016

Teaching Advising, Mentorship & Supervision

(RISD graduate students can propose, develop and teach an experimental elective course under the guidance of a faculty advisor as part of their M.Arch degree and/or Certificate of Collegiate Teaching)

Julie Kress: *Immaterial Mediums*

Zachary Schumacher and Eamon Wagner: *Digital Stranger*

Jesus Melendez Vazquez and Corey Weiss: *Designing The Cosmos*

Kevin Crouse and Zoe Ritts: *Writing as Architecture*

Dongyue Sunny Zhang and Mengcen Shen: *Architecture and Film: A Dialog between Space and Experimental Video*

Christopher Beck: *Experimental Drawing: Architectonics, or Paper Space*

Christopher Beck: *Architectural Drawing: Techniques for Representation*

Aaron Tobey: *Systemic Space*

Rory Stevens: *Digital Fabrication, Output vs. Input*

Jamie Graham: *Architectural Drawing, Methods + Materials*

Burgess Voshell: *Experiments in Digital Fabrication*

Mariasa Paz: *A Drawing Language*