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Spring 2019

### Faculty Publications for Academic Year 2018-19

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#### Recommended Citation

Brandt, Kathleen; Lonsway, Brian; Brown, Lori; Chun, Junho; Cooke, Sekou; Corso, Gregory; Czerniak, Julia; Davis, Lawrence; Dixit, Mitesh; Louie, Jonathan; McIntosh, Nicole; Parga, Marcos; Park, Daekwon; Wang, Fei; Bartosh, Amber; Bedard, Jean-Francois; Chua, Lawrence; Hunker, Molly; Hubeli, Roger; Larsen, Julie; Krietemeyer, Elizabeth; Linder, Mark; Namara, Sinead Mac; Sho, Yutaka; Brown, Ted; Godlewski, Joseph; Miller, Kyle; and Shanks, David, "Faculty Publications for Academic Year 2018-19" (2019). *School of Architecture - All Scholarship*. 230.

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**Author(s)/Creator(s)**

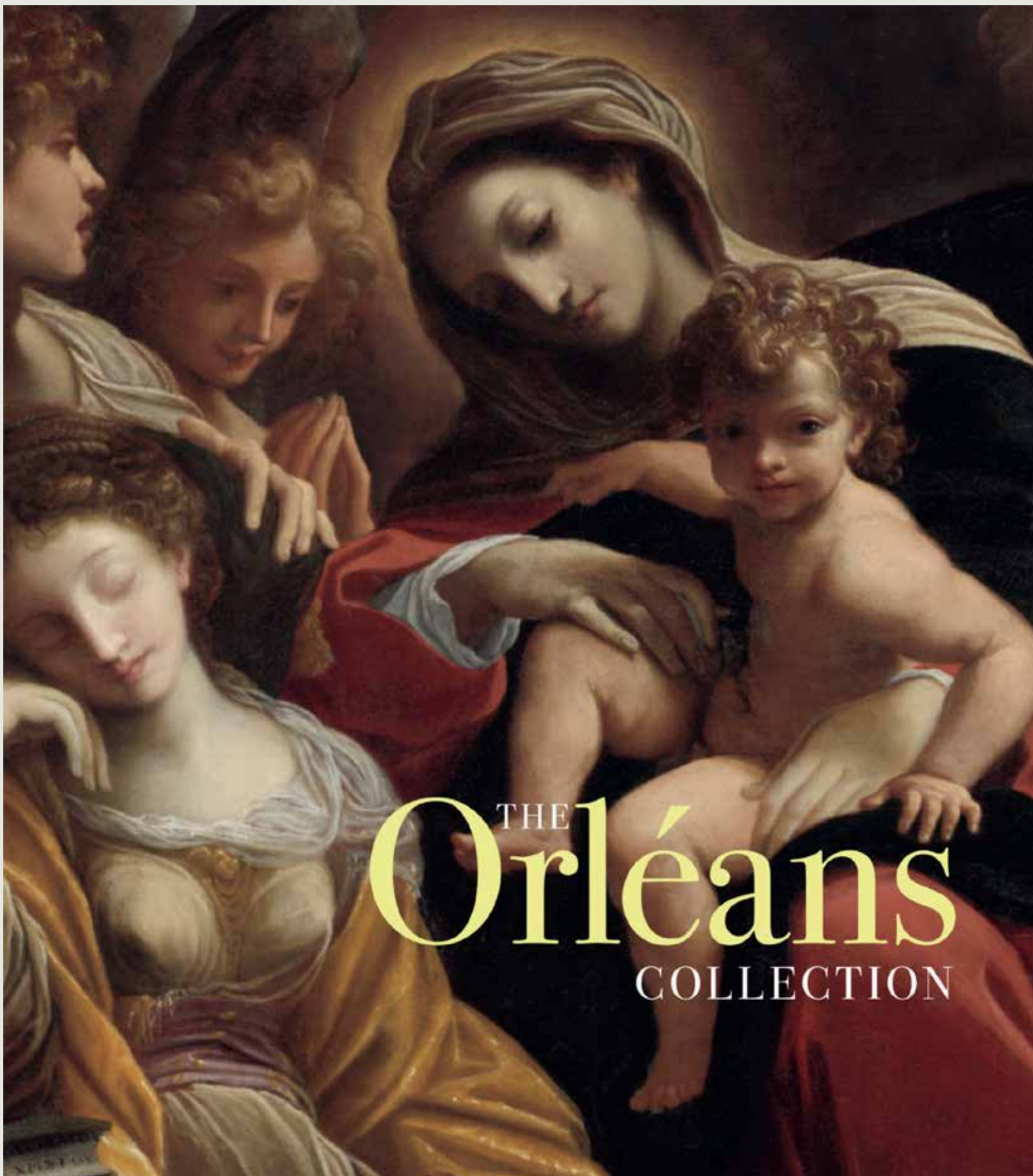
Kathleen Brandt, Brian Lonsway, Lori Brown, Junho Chun, Sekou Cooke, Gregory Corso, Julia Czerniak, Lawrence Davis, Mitesh Dixit, Jonathan Louie, Nicole McIntosh, Marcos Parga, Daekwon Park, Fei Wang, Amber Bartosh, Jean-Francois Bedard, Lawrence Chua, Molly Hunker, Roger Hubeli, Julie Larsen, Elizabeth Krietemeyer, Mark Linder, Sinead Mac Namara, Yutaka Sho, Ted Brown, Joseph Godlewski, Kyle Miller, and David Shanks

**AMBER BARTOSH**  
**Assistant Professor**



**Clark, Laura (co-author), "Mixed Reality Visualizations of Urban Data",  
*Technology Architecture + Design (TAD)* 3, no. 1 (Spring 2019): 89-101**

**JEAN-FRANÇOIS BÉDARD**  
**Associate Professor**



**“The Refurbishment and Renovation of the Palais - Royal during the Regency”,  
in *The Orleans Collection*, 96–113. London: Giles Ltd, 2018.**

**KATHLEEN BRANDT**  
**P/T Instructor**

**BRIAN LONSWAY**  
**Associate Professor**  
**& Graduate Chair**

30

Kathleen Brandt and Brian Lonsway



**Figure 2.1**

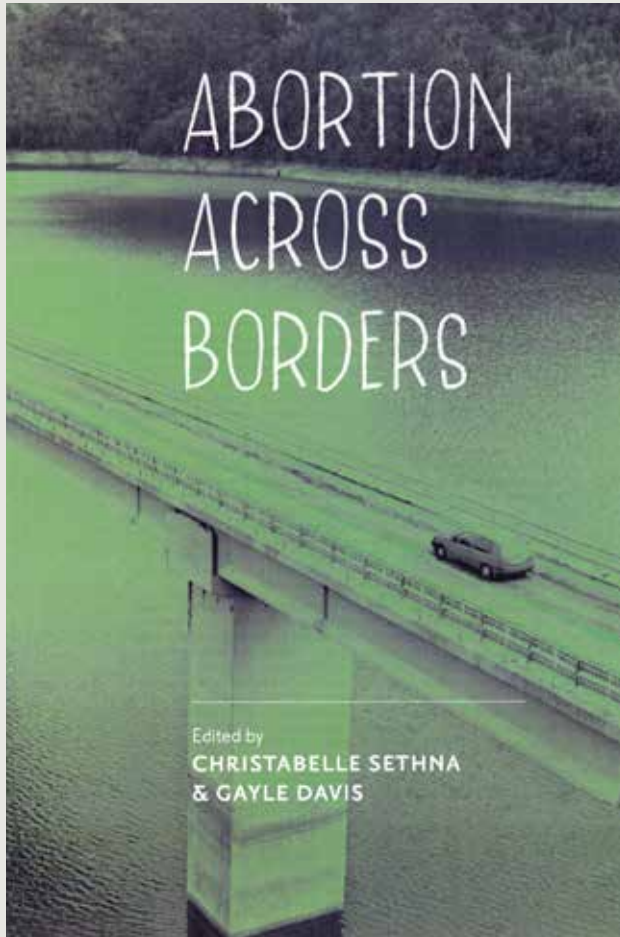
The PARC beanbag exhibit at the Computer History Museum in Mountain View, California. Photograph by the authors.

The Computer History Museum exhibits the beanbag with a nod to both historical accuracy and cultural cheekiness, acknowledging that the transformative impacts of this commonplace piece of furniture in the domain of computing history are manifold. The beanbag functions ergonomically, culturally, and symbolically, and these various functions have been built upon, expanded, and in many cases reified since this famous placement in the early PARC. Our friend the beanbag has grown up, but not necessarily matured, in the hands of designers since its invention. Together with many allies including the fern, the ping-pong table, and the playground slide, the beanbag has become a de facto indicator and erstwhile instigator of creative capacity.

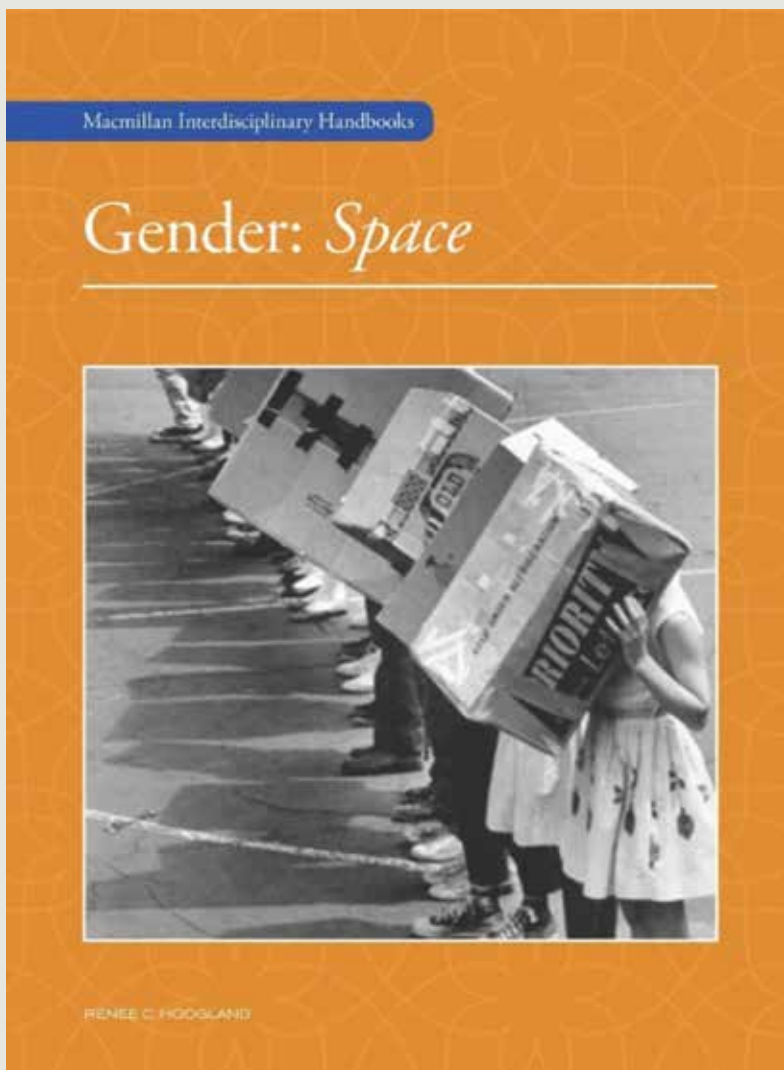
What is behind this evolution? And to what do we owe the iconic status of the beanbag? We need look no further than Bruno Latour and Steve Woolgar's observational work with the Salk Institute's scientists for a method to unpack the evolution of PARC's beanbags into the Googleplex. We see that designers, much like scientists,

# LORI A. BROWN

## Professor



**“Don’t Mess with Texas: Abortion Policy Texas Style”, in *Abortion Across Borders*, ed. Christabelle Sethna and Gayle Davis. Baltimore: Johns Hopkins University Press, 2019.**



**“Feminist Architectural Theory”, in *Interdisciplinary Handbooks: Gender & Space*, ed. Aime Meredith, 33–47. Farmington Hills, MI: Macmillan Reference USA, 2018.**

4/11/2019 Lori Brown: E Pluribus Unum: Out of Many, One | Architect Magazine | Policy, Detention Projects, Housing Policy, Architects, Public Outr...  
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**PRACTICE** [Home > Practice > Lori Brown: E Pluribus Unum: Out of Many, One](#)

Posted on: September 12, 2018 0 Likes

OPINION  
**Lori Brown: E Pluribus Unum: Out of Many, One**  
Children separated from their parents as a result of the Trump administration's "zero-tolerance" immigration policy were—and continue to be—housed in abhorrent facilities. What is the ethical role of architects in the politics of such contested spaces?

By [LORI BROWN](#)





Photo by Peter Bennetts

As I walked through the [U.S. Holocaust Memorial Museum](#), in Washington, D.C., last month, I found myself wondering how hatred for people perceived as different could so consume a population and ultimately be sanctioned and dictated by the state. I could not help but see associations between the Third Reich's successful propaganda machine in conjunction with our country's early 20th-century immigration policies and our country's current immigration policy. And I could not help but be alarmed by how history is repeating itself—how the laws in the 1930s and '40s that could have saved the lives of hundreds of thousands of people are happening again today.


[https://www.architectmagazine.com/practice/lori-brown-e-pluribus-unum-out-of-many-one\\_o](https://www.architectmagazine.com/practice/lori-brown-e-pluribus-unum-out-of-many-one_o)

1/5

**PROJECTS**



Necklace Residence

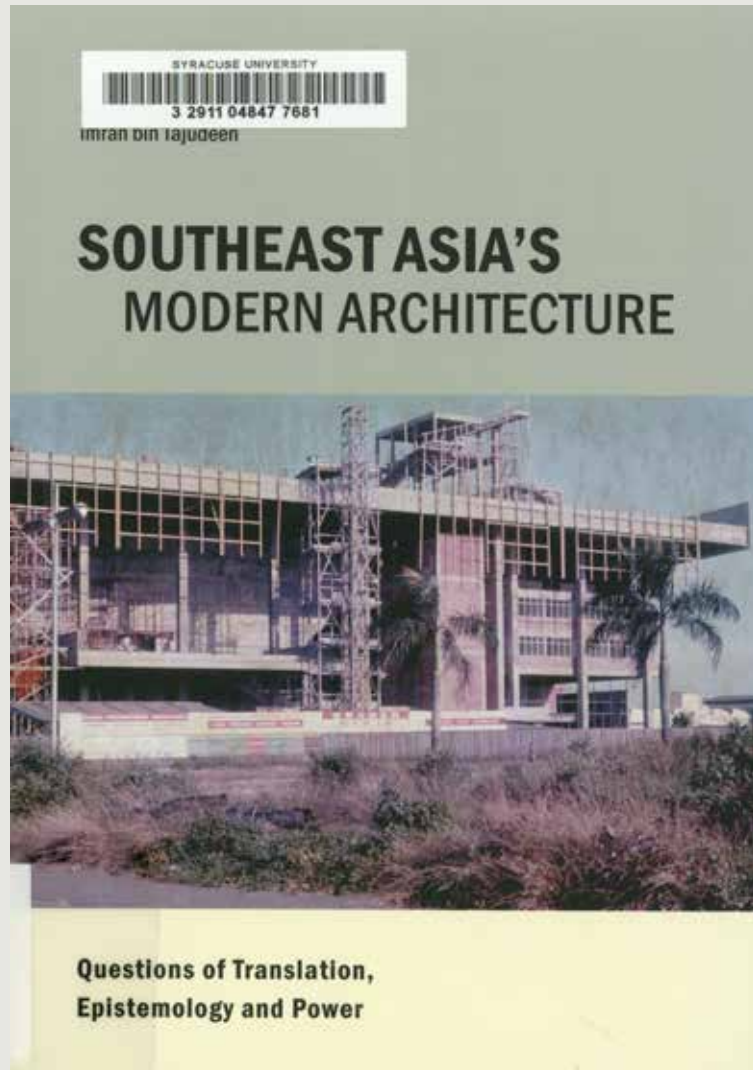


Coimbra-Steinman House  
Fran Silvestre Arquitectos

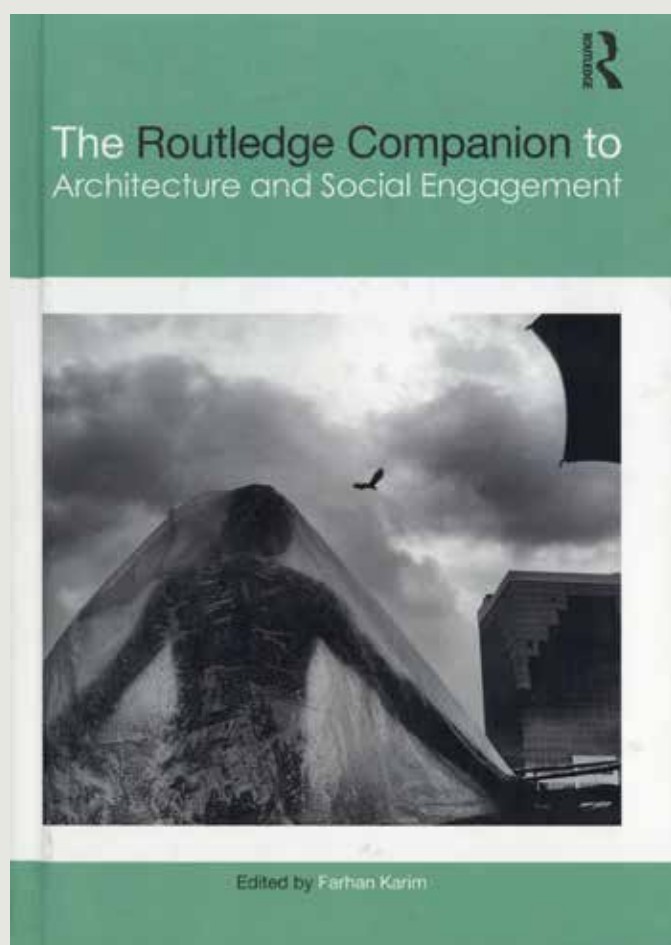
**“E Pluribus Unum – Out of Many, One”, *ARCHITECT Magazine*, September 12, 2018. [https://www.architectmagazine.com/practice/lori-brown-e-pluribus-unum-out-of-many-one\\_o](https://www.architectmagazine.com/practice/lori-brown-e-pluribus-unum-out-of-many-one_o)**

# LAWRENCE CHUA

## Assistant Professor



**“The Aesthetic Citizen: Translating Modernism and Fascism in Mid-Twentieth-Century Thailand”, in *Southeast Asia’s Modern Architecture*, ed. Jiat-Hwee Chang and Imran bin Tajudeen, 58–82. Singapore: NUS Press, 2019.**



**“The Garden of Liberation: Emptiness and Engagement at Suan Mokkh, Chaiya”, in *The Routledge Companion to Architecture and Social Engagement*, ed. Farhan Karim, 201–214. New York: Routledge, 2018.**



**“A Tale of Two Crematoria: Funeral Architecture and the Politics of Representation in Mid-Twentieth-Century Bangkok.” *Journal of the Society of the Architectural Historians* 77 (3): 319–338.**

# JUNHO CHUN

## Assistant Professor

### TOPO-JOINT

*Topology Optimization Framework for 3D-Printed Building Joints*

JUNHO CHUN<sup>1</sup>, JUHUN LEE<sup>2</sup> and DAEKWON PARK<sup>3</sup>

<sup>1,2</sup>Syracuse University, Syracuse, NY, USA

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**Abstract.** Joints and connectors are often the most complex element in building assemblies and systems. To ensure the performance of the assemblies and systems, it is critical to optimize the geometry and configurations of the joints based on key functional requirements (e.g., stiffness and thermal exchange). The proposed research focuses on developing a multi-objective topology optimization framework that can be utilized to design highly customized joints and connections for building applications. The optimized joints that often resemble tree structures or bones are fabricated using additive manufacturing techniques. This framework is built upon the integration of high-fidelity topology optimization algorithms, additive manufacturing, computer simulations and parametric design. Case studies and numerical applications are presented to demonstrate the validity and effectiveness of the proposed optimization and additive manufacturing framework. Optimal joint designs from a variety of architectural and structural design considerations, such as stiffness, thermal exchange, and vibration are discussed to provide an insightful interpretation of these interrelationships and their impact on joint performance.

**Keywords.** Topology optimization, parametric design; 3d printing.

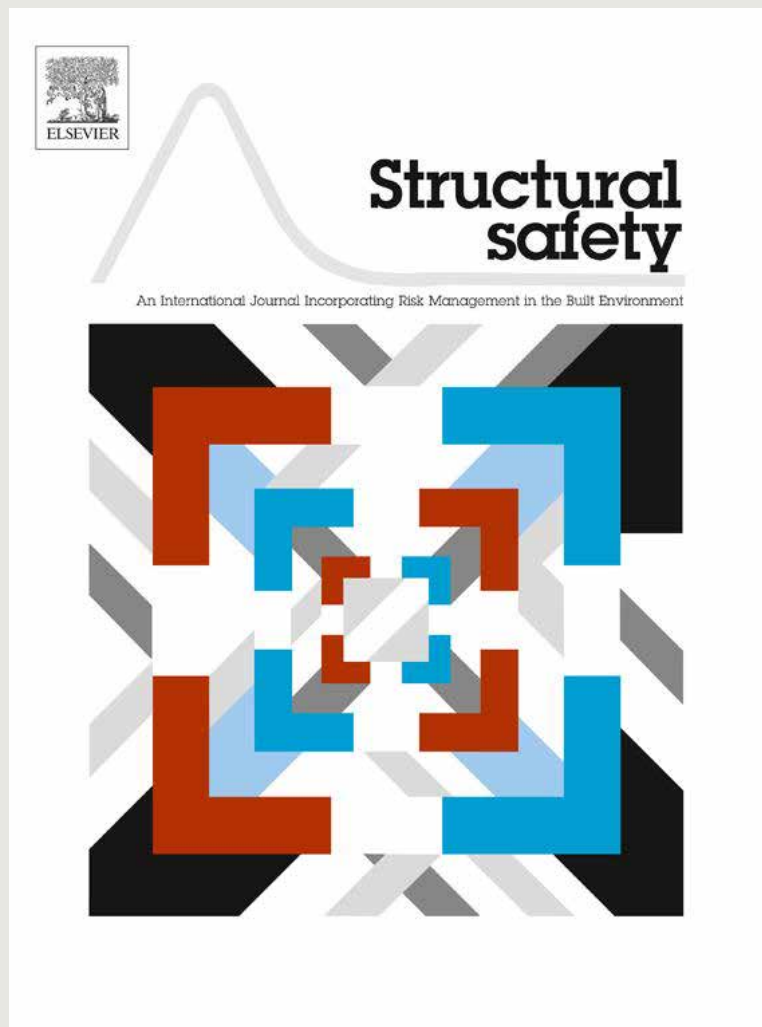
#### 1. Introduction

Joints and connectors are among the most critical components that affect the overall performance of building assemblies and systems. This is because these components are often the most complex element in an assembly regarding geometry, functional requirement, and detailing. Many of the mechanical failures occur at joints as the stresses, loads, vibrations, and movements tend to concentrate at these locations. A structural connection is commonly exposed to a set of unique factors which makes it practically impossible to create a single joint or connector that can be universally applied to all conditions.

Some of the critical factors include load conditions, the material property of the structural components, and connection types. Metals have been the most desirable

T. Fukuda, W. Huang, P. Jansson, K. Croft, S. Alshiddi (eds.), *Learning, Adapting and Prototyping, Proceedings of the 23<sup>rd</sup> International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA 2018)*, Volume 1, 205-214. © 2018 and published by the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) in Hong Kong.

Lee, Juhun and Park, Daekwon (co-authors), “**TOPO-JOINT – Topology Optimization Framework for 3D-Printed Building Joints**”, *Learning Adapting and Prototyping – Proceedings of the 23rd CAADRIA Conference – Volume 1 (May 2018): 205–214*



Song, Junho and Paulino, Glaucio (co-authors), “**System-reliability-based design and topology optimization of structures under constraints on first-passage probability**”, *Structural Safety* 76, (January 2019): 81–94



# SEKOU COOKE

## Assistant Professor



### GAME CHANGERS: The Hip Hop Designers Challenging the Architecture Establishment

Born in the '90s from hip-hop culture, this critical architecture movement has been coalescing for decades though may be poised for a second wave.

by Dante A. Ciampaglia  
February 26, 2019



Close to the Edge: The Birth of Hip-Hop Architecture, curated by Sekou Cooke, was on view at the Center for Architecture in New York City in late 2018, featuring a mix of built and conceptual projects and highlighting the influence of attendant themes and movements, like B-boying, deconstructivism, B-sides, neo-Postmodernism, graffiti, and Afrofuturism.

Courtesy Erik Bardin

**Ciampaglia, Dante A. "Game Changers: The Hip-Hop Designers Challenging the Architecture Establishment", *Metropolis*, 26 Feb. 2019. Web, 11 April 2019.**

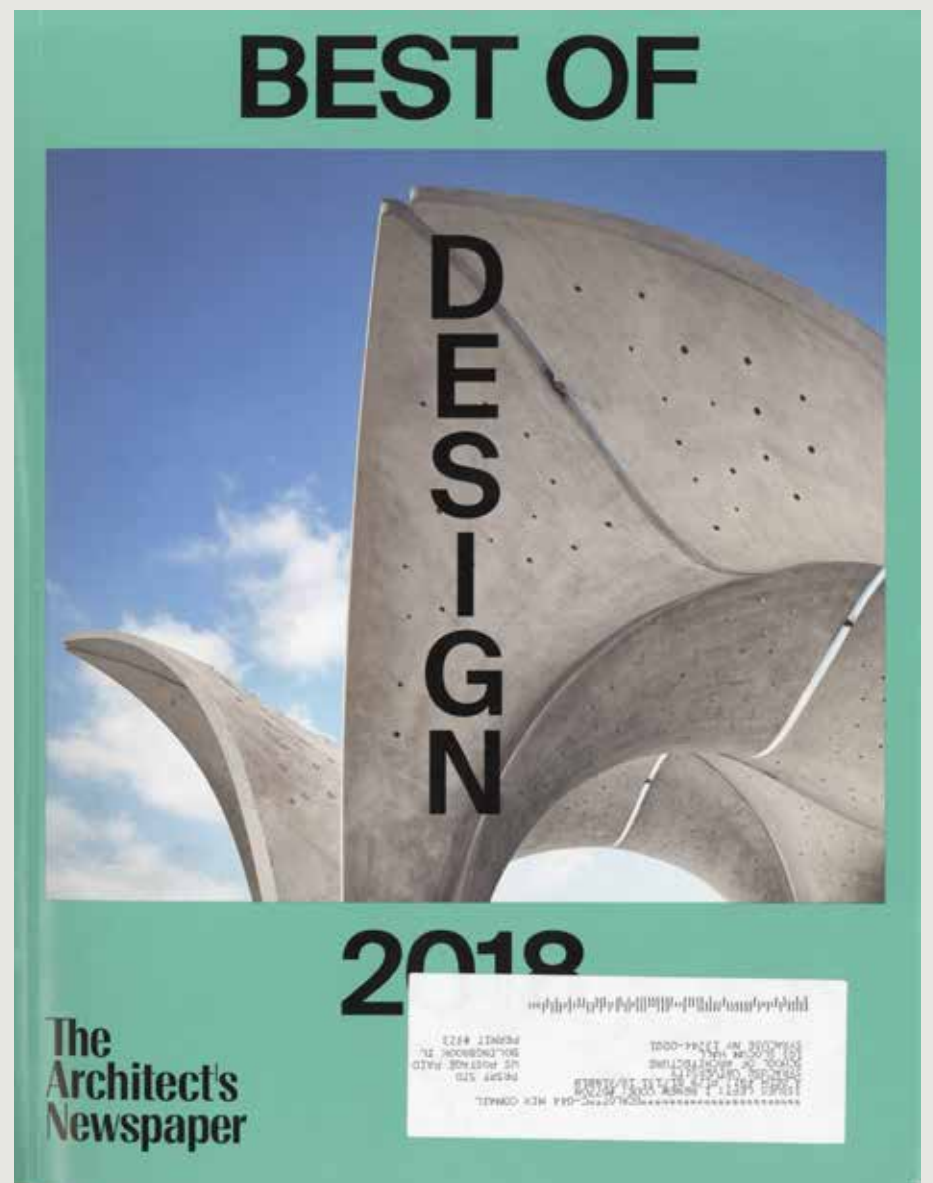
**Keane, Katharine. "Building Compositions," *ARCHITECT Magazine* 107, no. 11 (November 2018): 24.**

**GREGORY CORSO**  
Assistant Professor

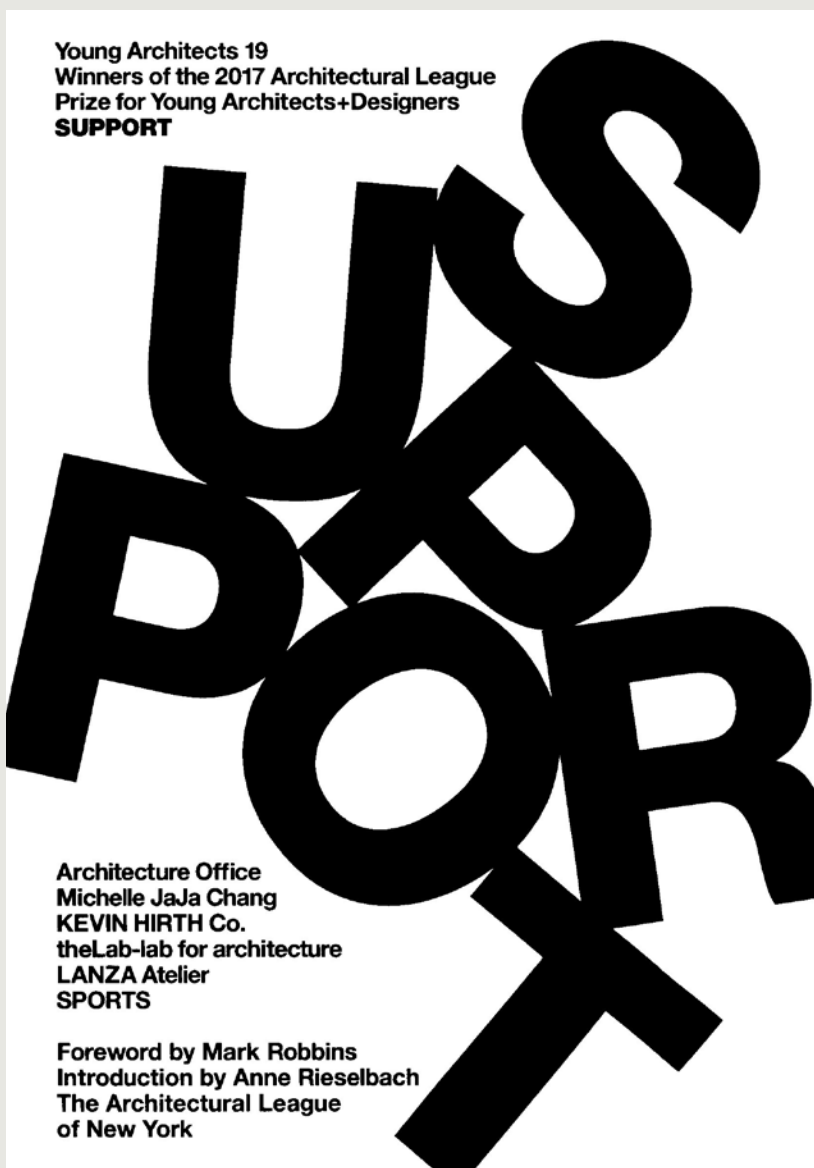
**MOLLY HUNKER**  
Assistant Professor



“SPORTS / Syracuse”, *Design 360*, no. 74 (April 2018): 40-45



“Runaway: Young Architects Winner” in *The Architect's Newspaper*, Vol. 16 Issue 12. (December 2018): 72



“SPORTS: Greg Corso and Molly Hunker” in *Young Architects 19: Support*, (2019): 152-175

**JULIA CZERNIAK**  
**Associate Dean & Professor**

3-2018

**JoLA**

JOURNAL  
of LANDSCAPE  
ARCHITECTURE

Landscape Criticism



**Guest Editor. Special Issue on Landscape Criticism, *Journal of Landscape Architecture (JoLA)* 13, no. 3 (April 2019): 5-7 (introduction)**

# LAWRENCE DAVIS

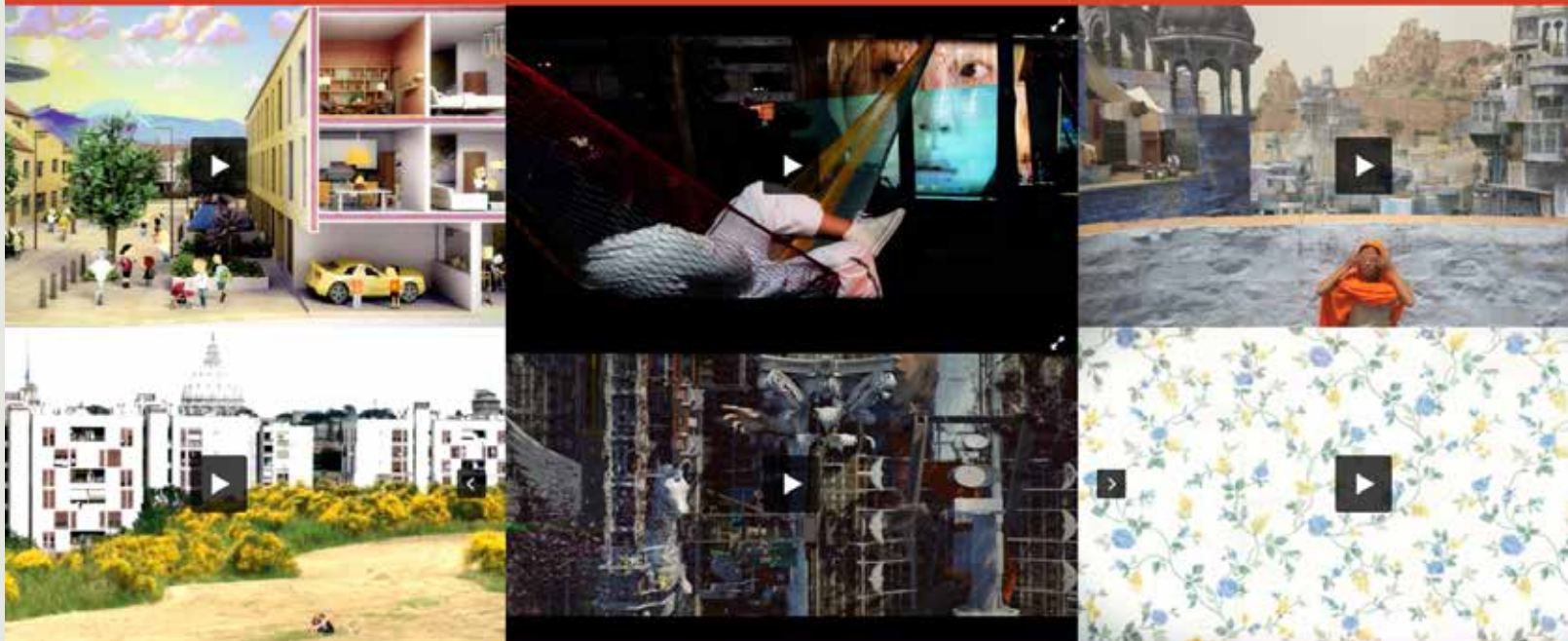
## Associate Professor & Undergraduate Chair

ARCHITECTURE  
PLAYER

 The Aesthetics of Us: New Residents in Old Cities  
Lawrence Davis 45:18 MIN

VIDEO ART IS NOW ROUGHLY FIFTY YEARS OLD. In her classic essay on the topic, "Video: the Aesthetics of Narcissism" (1976), Rosalind Krauss identifies the art form's unique ability to make the viewer intensely identify with the particular subject viewed, most often the person featured in the video. In painting, sculpture or other mediums the subject projects through a number of modes that include the form of the work, how it manipulates the viewer's ability to perceive its content and material factors specific to its making. Video art does the first two but eliminates any clue as to how the physical mechanisms used to make it coincide with how we understand its' content.

Unlike painting, where one sees brush strokes, or sculpture that show evidence of its fabrication, in video art both the camera and the monitor the artists uses while making the video are invisible to the viewer of the video. Krauss suggests that because of this, the main content of the video focuses on the relationship between the viewer and the image of its subject, most often its maker. Compared to most art mediums, this creates a psychologically powerful, through often anxious, condition. In its highly selective framing of reality, the video artist puzzles together new, often very personal, narratives to build a new emotionally charged view of life.



STRIPS BY LAWRENCE DAVIS



Old things for new eyes  
Lawrence Davis

28:26 MIN

THE LATE ALDO ROSSI MAINTAINS CITIES DEVELOP SLOWLY in a complex historical and social context. He was among the first in his generation to...

**"The Aesthetics of Us: New Residents in Old Cities", *Architecture Player* (blog). Posted 2018.**  
<http://www.architectureplayer.com/strips/the-aesthetics-of-us-new-residents-in-old-cities>

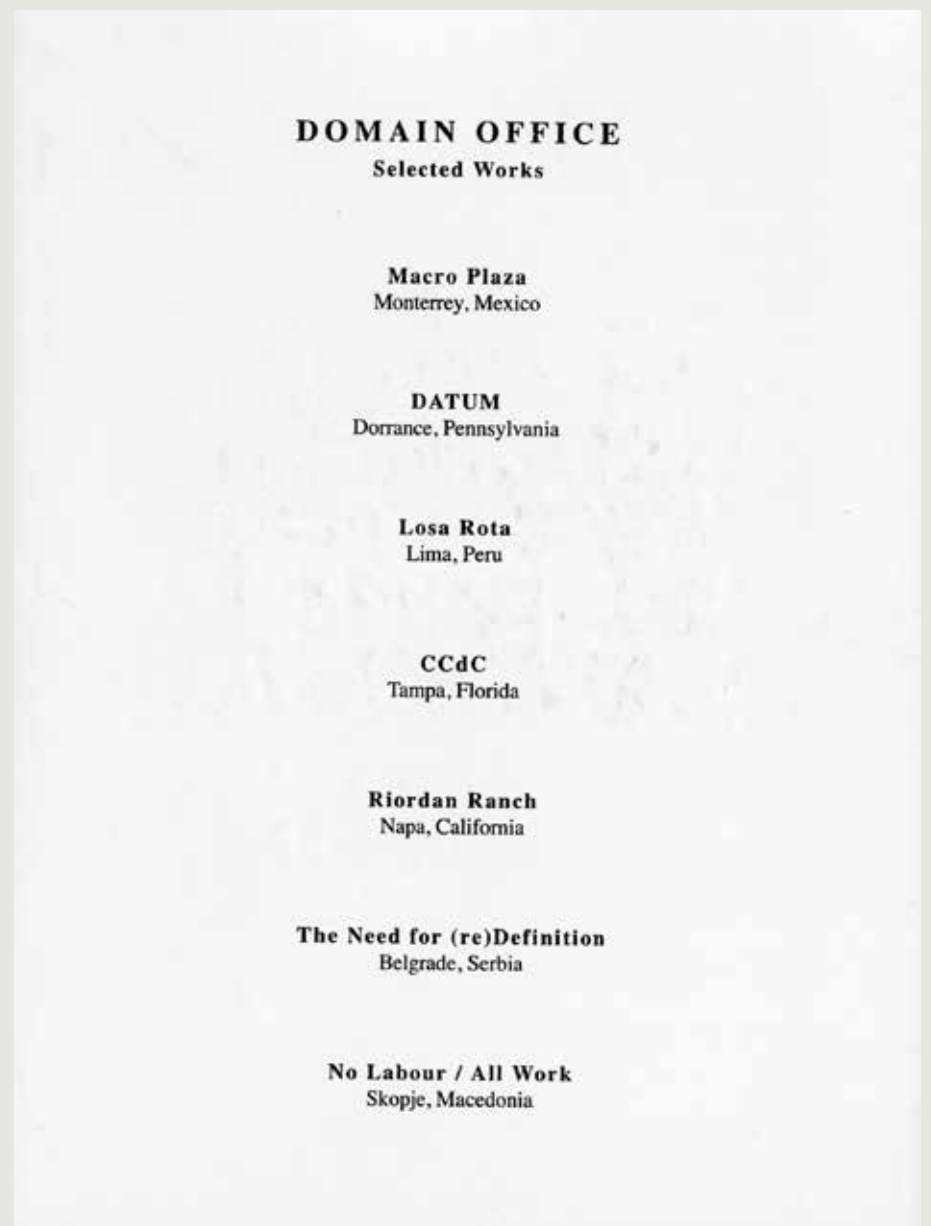
**"Old things for New Eyes", *Architecture Player* (blog). Posted 2018.**  
<http://www.architectureplayer.com/strips/old-things-for-new-eyes>

# MITESH DIXIT

## Assistant Professor



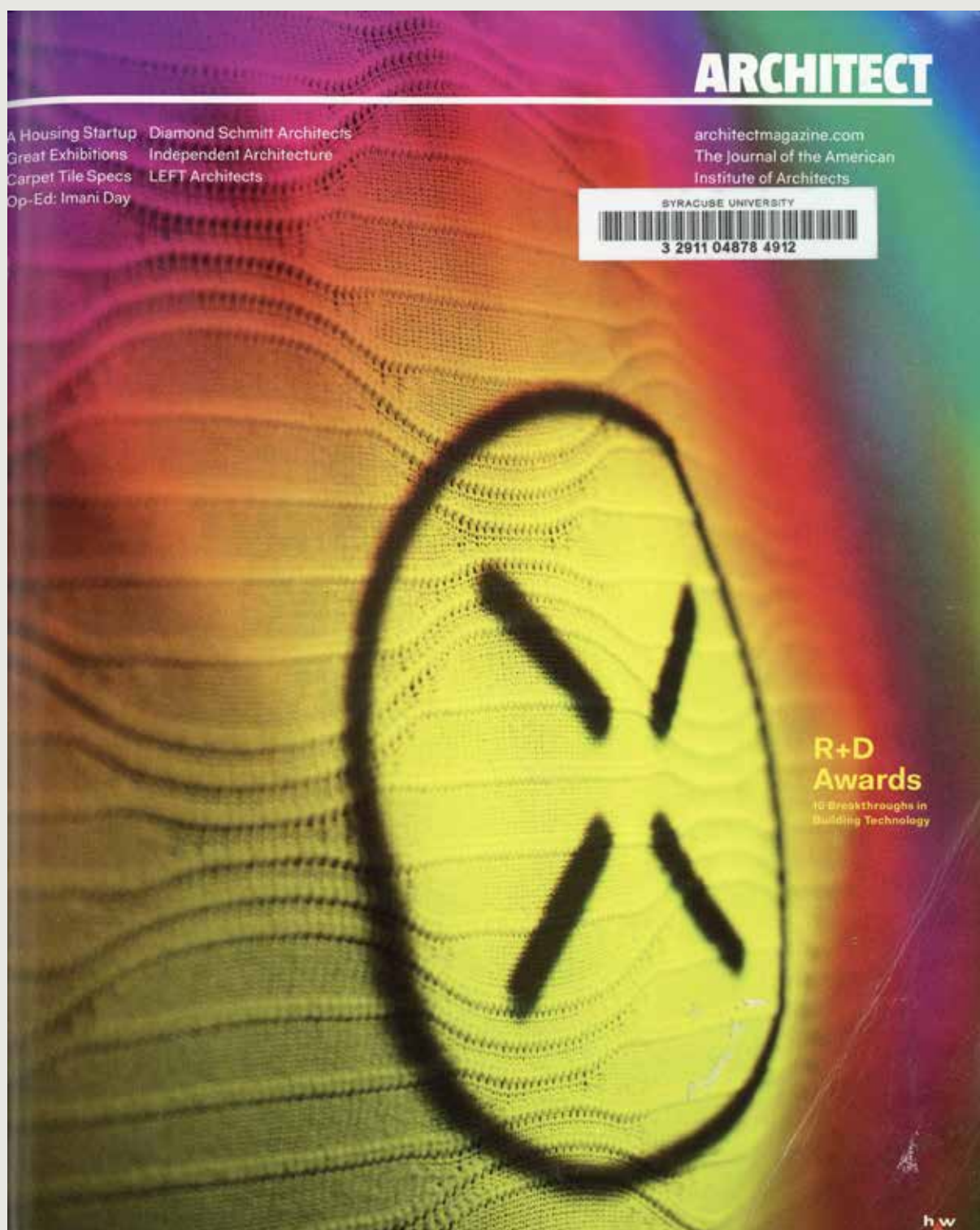
Subic, Sandra (co-author), *DOMAIN*.  
Nis: Galaksijanis, 2018.



*Domain Office: Selected Works*, Nis: Galaksijanis, 2018.

**ROGER HUBELI**  
Assistant Professor

**JULIE LARSEN**  
Assistant Professor



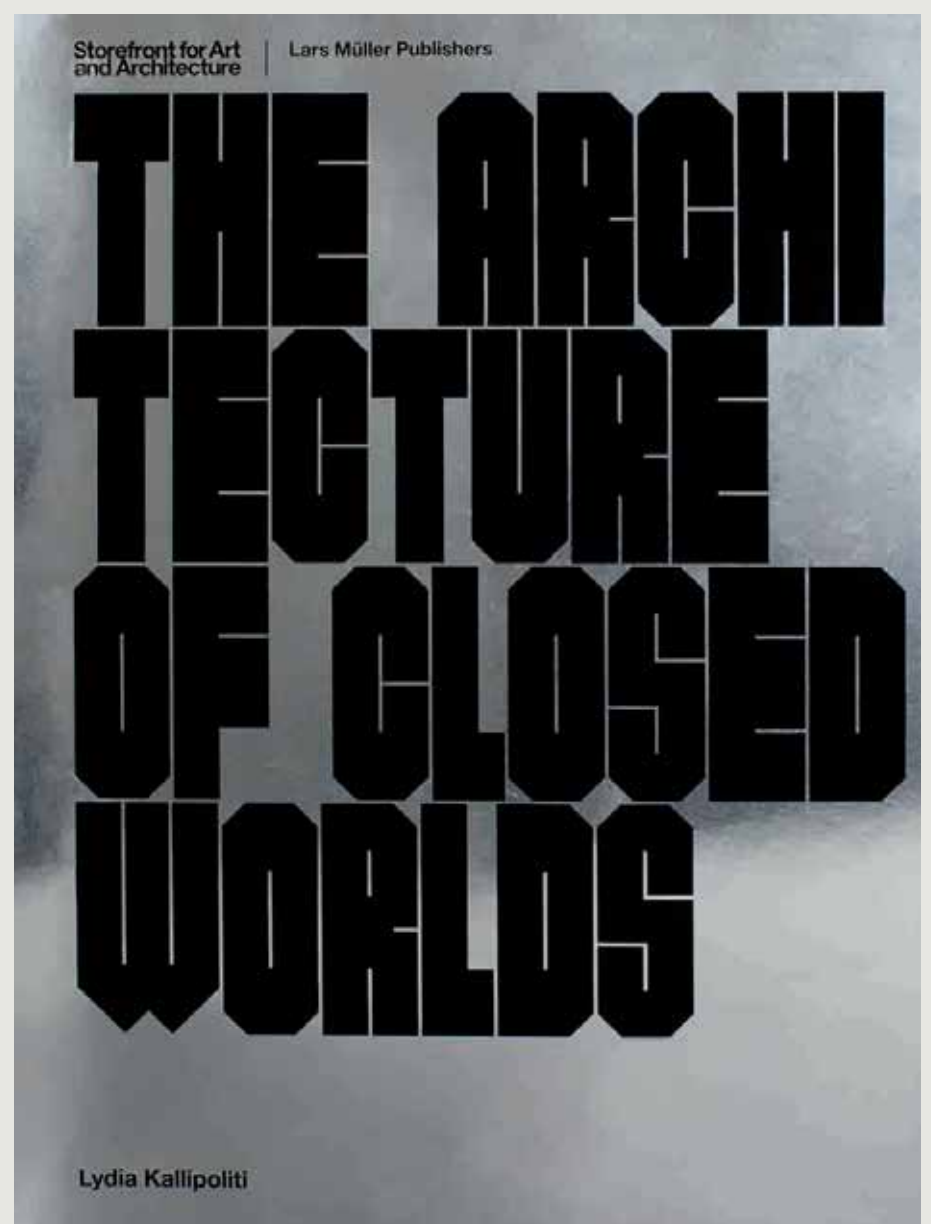
**“The 12th Annual R+D Awards – Thinness”,  
ARCHITECT Magazine 107, no. 7 (July 2018): 112–113**

# ELIZABETH (BESS) KRIETEMEYER

## Assistant Professor



**“A method for integrating an UBEM with GIS for Spatiotemporal visualization and analysis”, Society for Modeling & Simulation International, SIMAUD 2019 April 07–09 Atlanta, Georgia.**



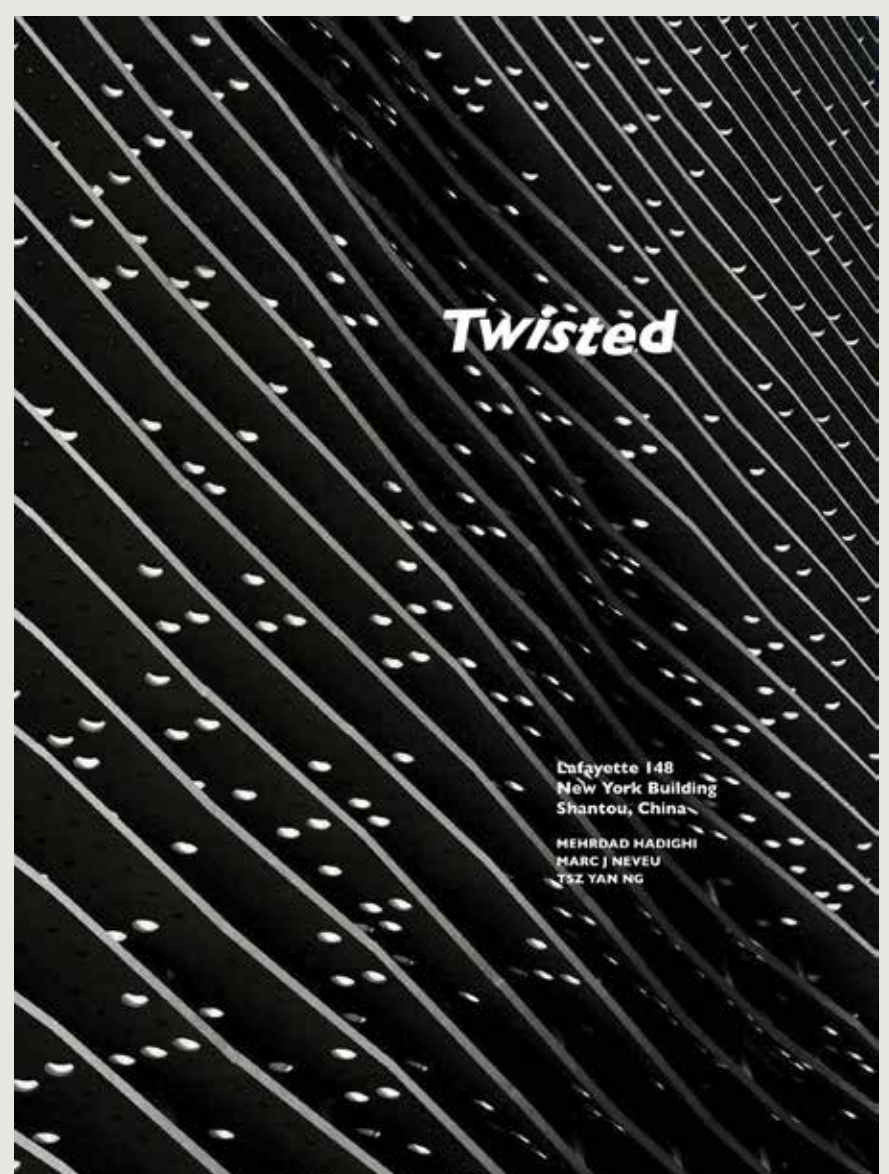
**Afterword. “Erik Nitsche of General Dynamics”, in *The Architecture of Closed Worlds. Or, What Is the Power of Shit?*, by Lydia Kallipoliti, 108–113. Baden: Lars Müller and Storefront for Art and Architecture, 2018.**

# MARK LINDER

## Professor



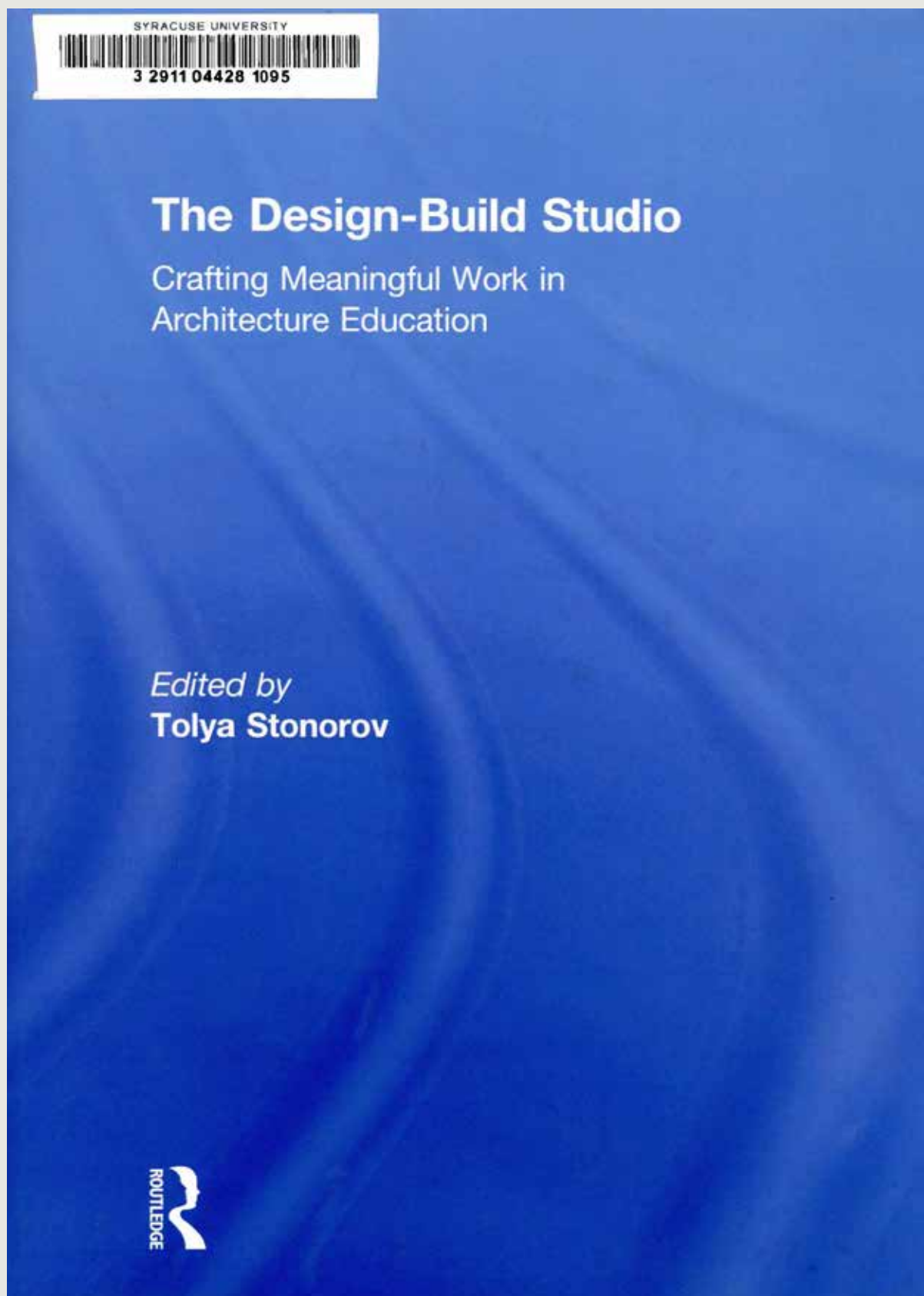
**“Episodes in the Emergence of Imaging Practices,” in *Instabilities and Potentialities, Notes on the Nature of Knowledge in Digital Architecture*, eds. C. Ahrens and A. Sprecher. New York: Routledge, 2019: 17–32**



**Interlude. “Twisted Image: This is the New Brutal”, in *Twisted*, ed. M. Hadighi, M. Neveu, T. Ng, 75–85. New York: Actar, 2018.**



**SINÉAD MAC NAMARA**  
**Associate Professor**



**"7D Play Perch, Sinéad Mac Namara and Larry Bowne" in *The Design-Build Studio: Creating Meaningful Work in Architecture Education*, ed. T. Stonorov. New York: Routledge, 2019: 216–227**

# DAEKWON PARK

## Assistant Professor

### TOPO-JOINT

Topology Optimization Framework for 3D-Printed Building Joints

JUNHO CHUN<sup>1</sup>, JUHUN LEE<sup>2</sup> and DAEKWON PARK<sup>3</sup>

<sup>1,2</sup>Syracuse University, Syracuse, NY, USA

<sup>1,3</sup>jchun04|dpark103|@syr.edu

<sup>2</sup>Simpson Gumpertz & Heger, Boston, MA, USA

<sup>2</sup>jlee@sgh.com

**Abstract.** Joints and connectors are often the most complex element in building assemblies and systems. To ensure the performance of the assemblies and systems, it is critical to optimize the geometry and configurations of the joints based on key functional requirements (e.g., stiffness and thermal exchange). The proposed research focuses on developing a multi-objective topology optimization framework that can be utilized to design highly customized joints and connections for building applications. The optimized joints that often resemble tree structures or bones are fabricated using additive manufacturing techniques. This framework is built upon the integration of high-fidelity topology optimization algorithms, additive manufacturing, computer simulations and parametric design. Case studies and numerical applications are presented to demonstrate the validity and effectiveness of the proposed optimization and additive manufacturing framework. Optimal joint designs from a variety of architectural and structural design considerations, such as stiffness, thermal exchange, and vibration are discussed to provide an insightful interpretation of these interrelationships and their impact on joint performance.

**Keywords.** Topology optimization; parametric design; 3d printing.

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Some of the critical factors include load conditions, the material property of the structural components, and connection types. Metals have been the most desirable

T. Fukuda, W. Hwang, P. Janssen, K. Crolla, S. Albadidi (eds.), *Learning, Adapting and Prototyping: Proceedings of the 23<sup>rd</sup> International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) 2018*, Volume 1, 205-214. © 2018 and published by the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) in Hong Kong.

Lee, Juhun and Chun, Junho (co-authors), “TOPO-JOINT – Topology Optimization Framework for 3D-Printed Building Joints”, *Learning Adapting and Prototyping- Proceedings of the 23rd CAADRIA Conference – Volume 1 (May 2018): 205–214*

Materials and Design 152 (2018) 156–167

Contents lists available at ScienceDirect

Materials and Design

Journal homepage: [www.elsevier.com/locate/matdes](http://www.elsevier.com/locate/matdes)

Pneumatically adaptive light modulation system (PALMS) for buildings

K. Hinz<sup>a,\*</sup>, J. Alvarenga<sup>b</sup>, P. Kim<sup>b</sup>, D. Park<sup>a</sup>, J. Aizenberg<sup>b</sup>, M. Bechthold<sup>a</sup>

<sup>a</sup> Harvard Graduate School of Design, 40 Quincy St., Cambridge, MA 02138, USA

<sup>b</sup> Sygn Institute for Biologically Inspired Engineering at Harvard University, 78a Aspen Dr., Boston, MA 02171, USA

**HIGHLIGHTS**

- The development of an adaptive film is designed to dynamically control light and views in buildings.
- Pneumatic pressure is found to successfully activate the adaptive film.
- Aperture geometry also affects the distribution of stress and level of visibility control through the adaptive film.
- Predictable relationships between the film's surface curvature and optical performance exist.
- Continuously tunable light control can be achieved when the adaptive film is combined with existing envelope technologies.

**GRAPHICAL ABSTRACT**

**ARTICLE INFO**

**Article history:**  
Received 9 November 2017  
Received in revised form 7 April 2018  
Accepted 13 April 2018  
Available online 17 April 2018

**Keywords:**  
Optically adaptive materials  
Micro-scale surface structures  
Light transmission design  
Regenerative glazing systems  
Pneumatic activation systems  
Pneumatic building envelope design

**ABSTRACT**

This research introduces a novel approach to control light transmittance based on flexible polydimethylsiloxane (PDMS) films that have been plasma-treated such that micro-scale surface features have a visual effect as the film responds to applied stress. The effect is continuously tunable from optically clear (71.5% transmittance over a 400–900 nm wavelength) to completely diffuse (18.1%). Changes in the film's optical properties are triggered by the axial strains applied using a pneumatic system to form pressurized envelopes. This paper reports on a series of experimental studies and provides system integration research using prototypes, visualizations and geometric models to correlate measured optical properties, strain, and global surface curvatures. In conclusion, a design is proposed to integrate PDMS light control within existing building envelopes. Two alternatives are investigated and compared: System A uses positive pressure featuring an exterior grid to stabilize and shape the inflated film during expansion. System B uses negative pressure where the films are shaped according to the geometry of an internal grid that serves as a spacer between two film surfaces. Both systems can provide effective control of opacity levels using pneumatic pressure and may be suitable for use with existing glazing systems or ethylene tetrafluoroethylene (ETFE) pneumatic envelopes.

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**1. Introduction**

**1.1. Dynamic privacy and light control in buildings**

The control of privacy in glazing envelope systems has been a goal since the early uses of glass in buildings, but at the present, there are no technically satisfying solutions that are fully adaptable and

\* Corresponding author at: [shahidberg@gsd.harvard.edu](mailto:shahidberg@gsd.harvard.edu), Zurich 8005, Switzerland.  
E-mail address: [shahidberg@gsd.harvard.edu](mailto:shahidberg@gsd.harvard.edu) (K. Hinz).

<https://doi.org/10.1016/j.matdes.2018.04.044>  
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K. Hinz, J. Alvarenga, P. Kim, J. Aizenberg, M. Bechthold (co-authors), “Pneumatically adaptive light modulation system (PALMS) for buildings”, *Materials and Design* 152, (2018): 156–167

**YUTAKA SHO**  
**Associate Professor**



The Routledge Companion to  
Architecture and Social Engagement



Edited by Farhan Karim

**“The Darker Side of Social Engagement”, in *The Routledge Companion to Architecture and Social Engagement*, ed. Farhan Karim, 201–214. New York: Routledge, 2018.**

# FEI WANG

## Assistant Teaching Professor



“On Chinese Architectural Educators’ International Influences”, *Time + Architecture* 2 (2018): 20–24



“The Future of Urban Ecosystem”, *Time + Architecture* 3, no. 5 (2018): 116–121

**TED BROWN**  
**Professor**

3-2018

**JoLA**

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of LANDSCAPE  
ARCHITECTURE

Landscape Criticism



**Brown, Bill (co-author), "Siting re-assembly: Queen Elizabeth Park",  
*Journal of Landscape Architecture* 13, no. 3 (April 2019): 40-53**

**JONATHAN LOUIE**  
Assistant Teaching  
Professor

**NICOLE McINTOSH**  
Assistant Teaching  
Professor

Young Architects 19  
Winners of the 2017 Architectural League  
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**SUPPORT**

# POUS POUR

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theLab-lab for architecture  
LANZA Atelier  
SPORTS

Foreword by Mark Robbins  
Introduction by Anne Rieselbach  
The Architectural League  
of New York

“Architecture Office: Jonathan Louie and Nicole McIntosh” in *Young Architects 19: Support*, (2019): 20–47

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**This Glowing Grilled-Cheese Restaurant Offers the Formerly Incarcerated a Fresh Start**

The Minneapolis restaurant All Square, a pro bono project by Syracuse, New York-based Architecture Office, operates under the motto “Don’t Judge, Just Eat.”

[metropolismag.com/interiors/all-square-minneapolis-restaurant-architecture-office/](http://metropolismag.com/interiors/all-square-minneapolis-restaurant-architecture-office/)



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[metropolismag.com/architecture/adis-ababa-zoma-museum-design/](http://metropolismag.com/architecture/adis-ababa-zoma-museum-design/)

8 METROPOLIS MARCH 2019

Lubell, Sam. “This Glowing Grilled Cheese Restaurant Offers the Formerly Incarcerated a Fresh Start,” *Metropolis*, January 7, 2019, <https://www.metropolismag.com/interiors/all-square-minneapolis-restaurant-architecture-office/>

**MARCOS PARGA**  
**Assistant Professor**

# BRICK

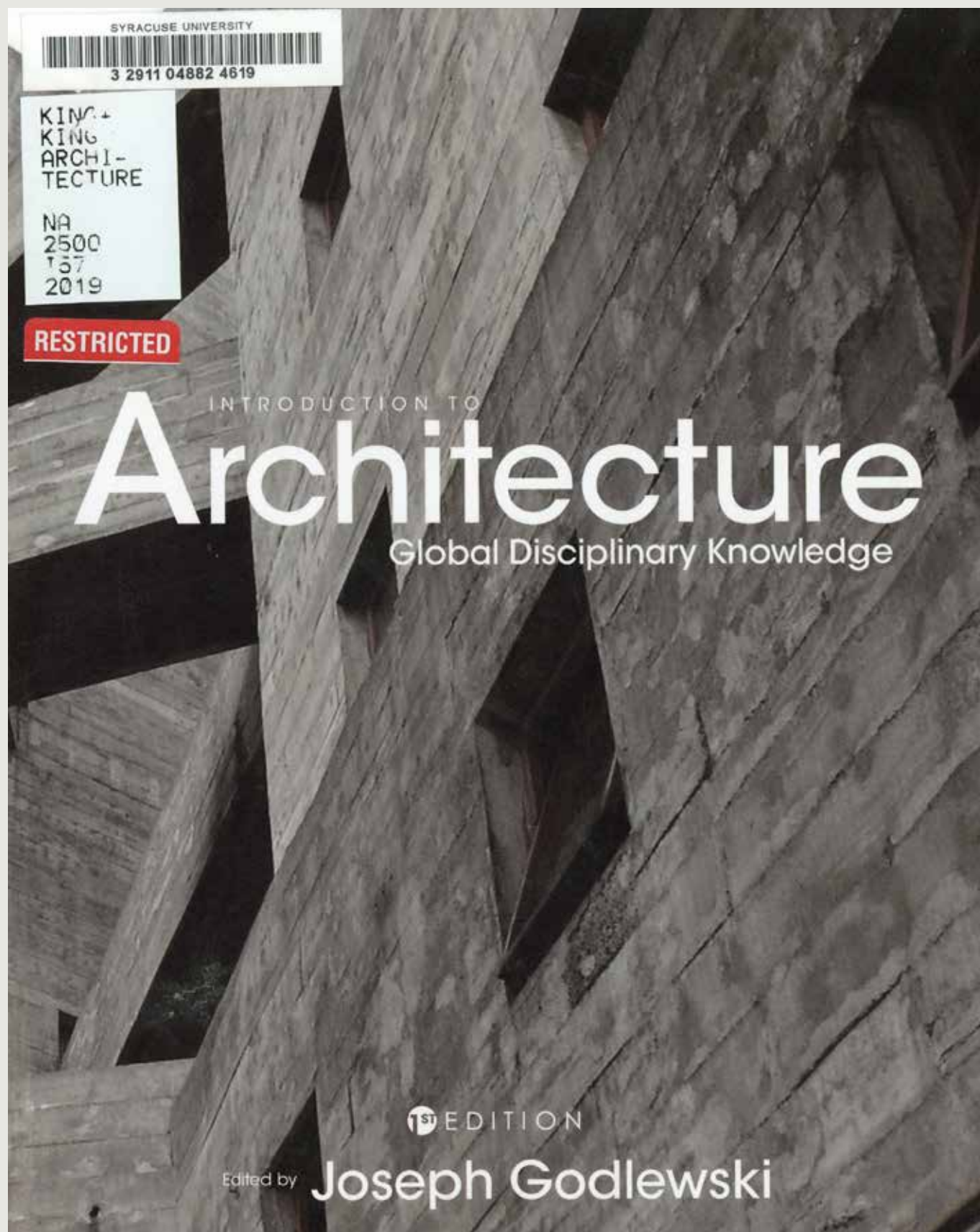
**18** Outstanding  
International  
Brick Architecture



 PARK BOOKS

Contributor in *Brick 18: Outstanding International Brick Architecture*, ed. Wienerberger AG with additional contributions from Sandy Attia, Patricia Barbas, Wojciech Czaja, Christian Holl, Wolfgang Pauser, Mikko Summanen and Jan Peter Wingender. Zurich: Park Books, 2018.

**JOSEPH GODLEWSKI**  
**Assistant Professor**



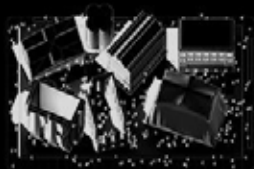
***Introduction to Architecture: Global Disciplinary Knowledge, San Diego: Cognella, 2019.***



# KYLE MILLER

## Assistant Professor

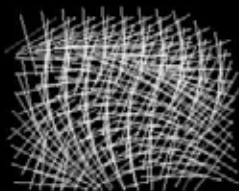
**POSSIBLE MEDIUMS** presents a collection of sixteen speculative design mediums by emerging architects.



**ARTIFACTS** are man-made objects gathered and reused in the composition of new constructions.



**GRIDS** are underlying formal structures guiding the arrangement of architectural elements in two-dimensional representation and three-dimensional space.



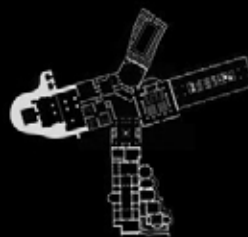
**PATTERN** is a repetitive arrangement of linear elements that produces figuration through excessive overlapping.



**BODIES** are continuous topological forms with features resembling human or animal body parts.



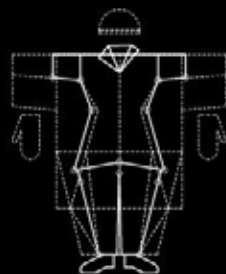
**LINES** are abstract geometric entities manifested as material constructions organizing form, space, structure, and use.



**PLANS** are two-dimensional representations of walls, windows and doors cut up, recombined, or extruded to produce new spatial and formal arrangements.



**FURNITURE** refers to objects with expressive forms, details, and components that challenge the rituals of eating, sitting, sleeping, storage and display.



**NARRATIVES** are graphic stories of real or fictional architecture involving sequential arrangements of language, animations, illustrations, and props.

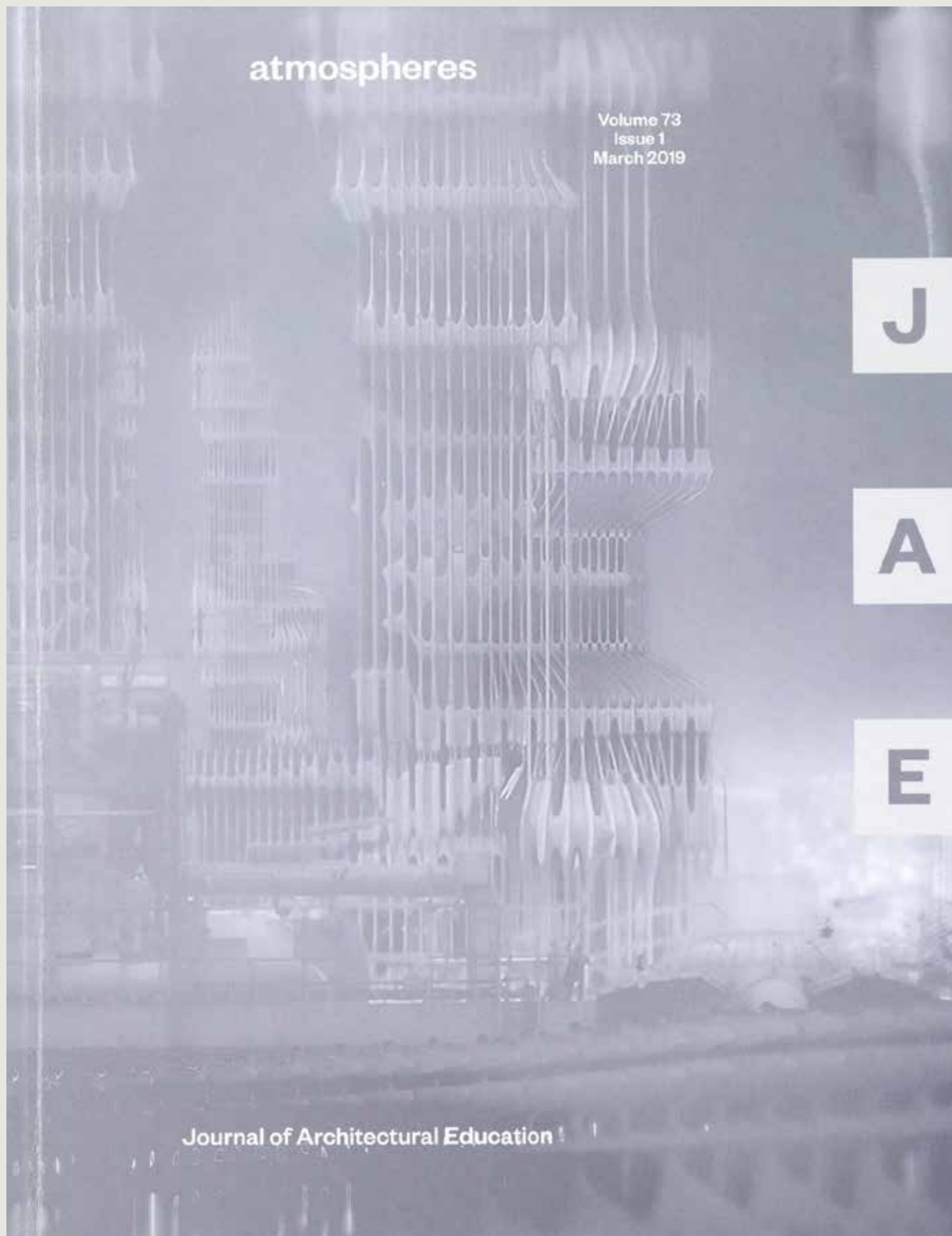


**PLASTIC** is a synthetic material used in non-standard fabrication to create heterogeneous tactile and visual qualities.



**GRAPHICS** are applied illustrations that embellish or obscure architectural elements and surfaces.

**DAVID SHANKS**  
**Assistant Professor**



**"Who, Mies?", *Journal of Architectural Education* 73, no. 1 (March 2019): 20–31**