

## Academic Leadership Profile

Accomplished leader with a designer’s sensibility. Proven successes in advancing an organization’s mission with a demonstrated record of collaborative, innovative, and inspirational leadership. Possesses a visionary leadership style focused on complex and elegant problem-solving based on listening, research, data, and the collaborative strength of the team. Believes in the transformative nature of education and continues to teach in order to maintain a connection with students.

## Leadership Traits and Professional Qualifications

- Demonstrated capacity to provide visionary and forward-thinking design leadership
- Genuine, transparent communication style with a desire to flatten hierarchies
- Data-driven decision maker
- Personal commitment to advancing access and a sense of belonging for students
- Experience building and sustaining relationships across campus units
- Confidence with fiscal budgeting and management
- Established track record of connecting with potential donors, industry partners, and peers
- Comprehensive knowledge of emerging trends and strategies in higher education
- Digital transformation experience with analysis, development, implementation, and management
- Commitment to shared academic governance, servant leadership, and mentorship

## Professional Profile

Karl Daubmann is an architect at the forefront of digital design. He is the Interim Provost at Lawrence Technological University. For the nine years prior he served as the Dean at the College of Architecture and Design. He is a University Distinguished Professor and his teaching includes design, AI, and leadership. His design practice, DAUB (design, architecture, urbanism, building), focuses on expanding the relationship between design, technology, and practice. In 2024, he and Sara Codarin co-founded PLOP (prototyping lab for off-site prefabrication) with a focus on additive manufacturing to address the US housing crisis. Daubmann is a Fellow of the American Academy in Rome and a Fellow of the American Institute of Architects. Between 2010 and 2014, Daubmann was the Vice President of Design and Creative Director for Blu Homes, where he led a multidisciplinary team that developed prefab housing.

## Education

**Massachusetts Institute of Technology** - Master of Science in Architectural Studies in Design and Computation

**Roger Williams University** - Bachelor of Architecture

## Academic Experience

### Lawrence Technological University - College of Architecture and Design

- Interim Provost 5/2025 - present
- University Distinguished Professor 8/2024 - present
- Dean and Full Professor with Tenure 7/2016 - 5/2025

The College of Architecture and Design is focused on design, immersed in technology and grounded in practice. It hosts 650 students with undergraduate degrees in Architecture, Interior Design, Graphic Design, Game Design, Industrial Design, Transportation Design and a range of tracks for an online Masters of Architecture degree. The college has an annual budget of \$5M, 25 full-time faculty, non-academic staff of 8, and a diverse team of adjunct faculty.

## University of Michigan - Taubman College of Architecture + Urban Planning

Full Professor of Architecture with Tenure with a courtesy appointment in the Penny Stamps School of Art + Design	2015 - 2016
Assoc. Dean for Post-Prof. Degrees and Technology Engagement	2015 - 2016
Director, Masters of Science in Architecture Degrees	2014 - 2015
Associate Professor of Architecture with Tenure with a courtesy appointment in the Penny Stamps School of Art + Design	2008 - 2015
Assistant Professor of Practice in Architecture	2002 - 2008
Lecturer in Architecture	2000 - 2002
Willard A. Oberdick Teaching Fellow	1999

## Boston Architectural College

Adjunct Instructor - Undergrad Design Studios + Thesis Prep Seminar	1996 - 1999
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## Visiting Academic Appointments + Workshops

Workshop on AI for SIGraDi Conference - AI Design Fiction with Sara Codarin	2023
ACADIA Workshop - Robotic Mark Making with Sara Codarin	2022
Digital Futures Global Workshop - Robotic Mark Making with Sara Codarin	2022
Hideo Sasaki Distinguished Visiting Critic - Boston Architectural College	2013
Visiting Professor - Master Critic Series - University of Cincinnati	2007
Tutor - Concrete Master Class - Berlage Institute	2004

## Licensure

Licensed Architect - Michigan - License Number: 1301051756	2004 - present
NCARB Certified	2005 - present

## Professional Experience

<b>PLOP (prototyping lab for off-site prefabrication)</b> - <a href="http://www.plop.design">www.plop.design</a> CoFounder & President - Design and fabrication using 3D printing concrete technologies.	2024 - present
<b>DAUB (design, architecture, urbanism, building)</b> - <a href="http://www.daub-lab.com">www.daub-lab.com</a> Founder & Director - Experimental design studio to explore digital technologies in design.	2012 - present
<b>BLU Homes</b> - <a href="http://www.bluhomes.com">www.bluhomes.com</a> Vice President of Design - Led team of 60 designers, engineers, and other creatives to implement all aspects of design including product development and project manufacturing. Managed \$5M annual budget with teams in Boston, San Francisco, Ann Arbor, and Los Angeles. Member of the multidisciplinary leadership team.	2012 - 2013
Creative Director Responsible for product development of all homes and accessories.	2010 - 2013
<b>PLY Architecture</b> - <a href="http://www.plyarch.com">www.plyarch.com</a> Partner / Principal - Partnership with Craig Borum - Full service architecture practice with expertise in construction, design / build, and digital design.	2001 - 2012
Collaborator	1999 - 2001
<b>Ove Arup R+D:</b> London, England Summer Researcher - Smart Materials Group	1998

## Industry Advisory Boards

ACE Mentorship Michigan - Board of Directors	2018 - 2025
Citizen Robotics - Advisor Design and industry advice to startup exploring 3D printing houses in Detroit	2020 - 2021
AIA Michigan Board of Directors - Education Director	2017 - 2020
Design Center in a Box - Advisory Board Member Support for City of Detroit Planning Department initiative	2018
Vayu Advisory Board Design advice to flying robot startup to deliver medicine in emerging markets	2014 - 2016
Blu Homes Advisory Board Design and architectural advice to modern, green, prefab housing manufacturer	2014 - 2015

## Residencies

American Academy in Rome Rules for Tools - tectonic overlap of parametric design between Borromini and Nervi	2015 - 2016
Wendover Residence Program One week at the Great Salt Lake, Utah. Residency to conduct tests for a new project.	2013
Ermanno Piano Fellowship - Renzo Piano Building Workshop: Genova, Italy	1996

## Honors + Awards

Elevated to the AIA College of Fellows	2025
LTU University Distinguished Professor Awarded selectively by the Board of Trustees. Conveys high honor for the accomplishments.	2024
Crain's Detroit Business' Notable Leaders in Higher Ed Recognizes regional leaders based on impact.	2023
AIA Michigan President's Award Recognition for outstanding contributions to the profession and service to the community.	2022
AIA Michigan Honor Award - Rules of the Road - DAUB and rooftopwo	2016
AIA Michigan Honor Award - Aka Sushi - DAUB and Synecdoche Design	2016
Founder's Rome Prize - Fellow at the American Academy in Rome	2015
Architizer A+ Award - Honorable Mention Arch + Fabrication Sunset Breezeshouse	2013
Gold Nugget Award for Best Net Zero Energy Homes Pacific Coast Builders Conference - Blu Homes	2013
Builder's Choice & Custom Home Design Award - Merit Award for Costa Residence	2013
Professional Builder Design Awards - Bronze Award for Green Homes	2012
Metalmag Architectural Award - Residential Honorable Mention for Haney Studios	2012
59th Annual P/A Awards Architect Magazine - Citation for Outside-in House	2012
AR+D Award for Emerging Architecture Architectural Review - Highly Commended for Shadow Pavilion	2011
Metalmag Interior Architecture Award - Interior Award for Ayaka Sushi	2011
AIA Michigan Honor Award - Ayaka Sushi	2011
R&D Award - Architect Magazine Shadow Pavilion	2010

AIA National Small Project Honor Award - Shadow Pavilion	2010
AIA Michigan Honor Award - Shadow Pavilion	2010
AIA Michigan Honor Award - Park House	2010
"One of the world's 101 most interesting new architects" Wallpaper* Magazine	2007
First Prize Urban Design - XV Quito Pan-American Biennale for Mies van der Rohe Plaza	2007
Young Architects Award - Architectural League of New York	2006
AIA Michigan Honor Award - OMI Sushi	2006
AIA Michigan Honor Award - Mies van der Rohe Plaza	2005
AIA Michigan Honor Award - Big Ten Burrito	2005
Wood Design Honor Award - Wood Design & Building Magazine Big Ten Burrito	2004
Design Distinction: Environments Category - ID Magazine + Plywood Sunscreen	2004
Faculty Design Award - ACSA - Chicago Public School	2002
Young Alumni Achievement Award - Roger Williams University	2001
Un-built Arch - Boston Society of Architects - Prototype Church	2001
Un-built Arch - Honorable Mention Boston Society of Architects - CPS	2001
SMArchS Graduate Thesis Prize at MIT	1999
MIT Goody Prize for thesis proposal	1999

## Design Competition Awards

<b>Finalist / Commissioned Project</b> - Midtown Viaducts Public Art and Light Project - Detroit, MI	2015
<b>Finalist / Built Project</b> - Electricity nighttime illumination festival	2012
<b>Merit Prize</b> - 46th Annual Central Glass International Competition for Glass Pavilion	2011
<b>Second Place</b> - Robbins Elementary School National Design Competition	2005
<b>First Prize</b> Project construction - Mies van der Rohe Plaza Memorial Competition - with PEG	2004
<b>First Prize</b> Invited Competition - House: Case Study Cleveland	2002
<b>Finalist</b> - Chicago Public Schools National Design Competition with Borum, Hyde and Roddier	2001
<b>First Prize</b> - Construction Specification Institute - Student Detailing Competition with Nico Kienzl	1998
<b>First Prize</b> - Bridging / A Place for Architecture with Joshua Keay	1997

## Periodical + Other Citations: Design Work

Arieff, Allison. "Generating Architecture MIT Tech Review. May/June 2025.

Album Cover. "Christopher Cerrone **The Air Suspended**" by New Focus Recordings 2022.

Keith, Kelsey. "Blu Homes To Unveil First Prefab Home Model in Los Angeles." **Dwell Magazine**. June 2013.

Keith, Kelsey. "Blu-Print for Success". **Dwell Magazine**. December 2013.

Grant, Rachel. "Architecture: Factory-built prefabs get the homemade touch". **Financial Times: House & Home**. November 2013.

Lake, Courtney. "Making Prefab Fabulous by the Truckload". **California Home + Design**. October 2013. [Shaw Residence]

Dumaine, Brian. "House that Flips and Folds into Place." **Fortune Magazine**. June 2013.

Woody, Tod. "Blu Homes' Apple Approach to Building Green Prefab Homes". *Forbes Magazine*. September 2012.

Woody, Todd. "Bold Construction." *Forbes Magazine*. August 2011.

Ost, Sara. "Touring the Breezhouse by Blu Homes." *Dwell Magazine*. December 2012.

"100 Brilliant Companies". *Entrepreneur Magazine*. May 2012.

Schoech, Samantha. "Out of the Box". *Sunset Magazine*. October 2012: 48-54.

Nakano, Craig. "A Vision of His Own: Prefab-ulous Homes that are also Affordable". *The Los Angeles Times*. Sept 8, 2012.

Brennan, Morgan. "Off-The-Grid Mansions." *Forbes Magazine*. November 2012.

Scinto, Monica. "Haney Studios". *Metal Magazine*. July 2012.

"Cassetten." *Architectenweb Magazine*. April 2012. [Shadow Pavilion]

Chou, Ann. "You're Invited: Blu Homes Open House in Joshua Tree." *California Home + Design*. September 2012.

"Shadow Pavilion" *Architectural Review* December 2011: 96-97.

Grotewold, Sabrina. "Aluminum Goes Aquatic." *Metal Magazine* September 2011.

"Blu's Unfolding Prefab". *Dwell Magazine*. November 2012.

Weber, Cheryl. "Sum of Its Parts." *Builder Online*. September 2011.

"Nature Construite," *AMC, Le Moniteur* (France), no. 205, April 2011, p.111.

"Shadow Pavilion". *Monitor Magazine* July 2010: 80-81.

Mays, Vernon. "Shadow Pavilion." *Architect Magazine* August 2010: 70-73.

Schneider, Jim. "Shadow Pavilion." *Metal Magazine* November 2010.

"Shadow Pavilion". *Interior Design Magazine* January 2010.

"Shadow Pavilion." *Plan Magazine* (Ireland) Sept / Oct 2010: pg 46.

"Mies van der Rohe Plaza". *Landscape World* No. 33; June 2010: 80-85.

Lunch, Vol. 4: Margin, University of Virginia Journal of Landscape and Architecture, p.60-77.

"101 of the World's Most Exciting New Architects". *Wallpaper\** International Design Directory August 2007.

Maas, Anna Martin. "Integrating the New with the Old." *Competitions* Winter 2006/7: 34 - 43.

Milshstein, Amy. "Fresh Approach." *Contract* July 2006: 40 - 41, 58 - 63.

Ayub, Zulaikha, and Christi Cole. "Interview: Karl Daubmann." *Material Matters: The Catholic Univ of America* 12 - 15.

"Material World: Ecological Pavers." *Azure* July/August 2006: 106.

**Catalog of the Quito Architecture Biennale**. Diego Lozada, Alioska Guayasamin, Ana Duran, editors, Colegio de Arquitectos del Ecuador, 2006, p. 78-81.

Cameron, Leah. "It's a Wrap." *Azure* May 2006: 38.

Griffith, Don (ed). **The Wood Design Awards 2004**. 1st. Halifax: Tuns Press, 2004. (Cover & pp. 8 - 15).

Taggart, Jim. "Cutting Edge." *Canadian Architect* May 2005: 26 - 30.

Drueding, Meghan. "In Salsa Veritas." *Residential Architect* April 2005: 96 - 97.

Joch, Alan, and Snoonian, P.E., Deborah. "Design Embraces the Machine Age." *Architectural Record INNOVATION* November 2005: 31 - 35.

Velazquez, Alicia. "Mies van der Rohe Plaza." *A+T In Common II - Collective Spaces* Autumn 2005: 56 - 63.

Klara, Robert. "Order in the Court." *Architecture Magazine* September 2005: 70.

"Honor Awards", *Wood Design & Building Magazine*, September 2004.

"Honor Awards", *Wood Le Bois Magazine*, (Canada) September 2004.

Codrington, Andrea. "Environments." *ID, the International Design Magazine Annual Design Review 2004 July / August 2004*: 128.

Place, Jean-Michel (ed). "Case Study House, Cleveland." *L'architecture d'aujourd'hui* July / August 2004: 60 - 63.

Benfer, Matthew, Amelia Nelson, and Mike Stofiel. "Case Study House." *OZ: Kansas State Journal of Architecture* 2003: 56 - 59.

Sokol, David. "Casing the Joint." *Metropolis* October 2002: 46 - 47. – [Case Study House]

Lerner, Kevin. "Ply Architecture: Four's Company." *Architectural Record* August 2002: 49 - 50.

Channing, Susan R. (ed.) *House: Case Study Cleveland. Exhibition Catalog 1.* Cleveland: S.P. Mount Printing, 2002.

Sharp, Robert V. (ed). *Architecture for Education: New School Designs from the Chicago Competition.* 1st. Singapore: Tien Wah Press, 2002.

Doctors, Jennifer (ed.) "School Grounds." *Architecture in Communication Proceedings.* Washington DC: ACSA Press, 2002. p. 148 - 149

Collyer, Stanley. "An Elementary School Paradigm? A New Approach for Chicago Public Schools." *Competitions Summer 2001*: 14 - 23.

Batiboi, Hormuz (ed.) "Sacred Ground." *Paradoxes of Progress Proceedings.* Washington DC: ACSA Press, 2001. p. 280 - 281

Padjen, Elizabeth(ed). "BSA Unbuilt Architecture Awards." *ArchitectureBoston* 4(2001): 68.

"Sacred Ground." *Thresholds* 1(2000): 35 - 37. (Peer Reviewed)

## On-line Citations: Interviews and Design Work

Reiner-Roth, Shane. "Are We Thinking About 3D-Printing Housing All Wrong?" *Dwell Online.* February 2025. ([link](#))

Guimapang, Katherine. "Using Optimism to Guide Online Education with Karl Daubmann, Dean of Lawrence Technological University College of Architecture and Design". *Archinect.* May 2020. ([link](#))

Rhodes, Margaret. "A Company That Let's You Custom-Design Your Dream Home Online". *Wired Magazine.* February 2015. ([link](#))

Hickman, Matt. "With Latest Design, Blu Home does Modern Green Prefab Wright." *Mother Nature Network.* February 2014. ([link](#))

Podcast Interview April 12 on *Entrepreneur Architect* "Selling Architecture as a Product" ([link](#))

Maynard, Nigel. "8 Prefab Homes that Blend Creativity and Sustainability". *Builder.* August 29, 2012. ([link](#))

Sichelman, Lew. "Software lets new-home buyers build dream house on a computer". *LA Times.* August 6, 2012. ([link](#))

Lubell, Sam. "Visit a Prefab in the Mojave Desert." *Architect's Newspaper Blog Post.* 07 September 2012. ([link](#))

Pullen, John Patrick. "100 Brilliant Companies." *Entrepreneur Magazine.* May 2012.

Alter, Lloyd. "Has Blue Homes 'Solved the Problem of Modern Prefab'?" *Treehugger.* Blog Post. August 29, 2011. ([link](#))

"The TOH Top 100: Best New Home Products 2011." *This Old House Magazine.* 2011. ([link](#))

"Dezeen's Top Ten: Robots". *Dezeen Magazine Blog Post.* 31 July 2010. (8th most read story about robots) ([link](#))

"Tea House for Robots". *Dezeen Magazine Blog Post.* 13 July 2010. ([link](#))

## Publications + Proceedings as Author

Invited book chapter. **Companion on Autonomous Architecture and Design**, edited by Mitra Kanaani for Routledge, co-authored w/ Sara Codarin and Gretchen Wilkins. (Forthcoming)

Codarin, S., Daubmann, K., Shall, S., Yohsikawa, M. (2025). "Collaborative Learning in Design Build Studio Culture". **Proceedings of BTES (Building Technology Educators' Society): Empowerment through an Architecture of Performance**, Chicago Architecture Association, June 2-5 - presented, proceedings forthcoming

Codarin, S., Daubmann, K. (2024). "Labor in the Age of AI". **Proceedings of AMPS (Architecture Media Politics Society): Urban Futures - Cultural Pasts**, Barcelona, Spain, July 15-17, 2024. ISSN 2398-9467

Codarin, S., Daubmann, K. (2024). "AI-informed Field Notes for a Roman Travel Experience". **Proceedings of ARCC/EAAE: Architecture into the Unknown**, Aarhus, Denmark, May 23-26, 2024 - presented, proceedings forthcoming

Codarin, S., Daubmann, K. (2024). "Humanizing VR: Foregrounding the Role of the Body in Digital Twins". **Proceedings of EURAU The Role of Corporeity in the Era of Visualization**, Milan, Italy, June 19-22, 2024 - presented, proceedings forthcoming

Codarin, S., Daubmann, K. (2023). "Rom[AI]nterrotta". **Proceedings of SIGraDi 2023 | Accelerated Landscapes**, Punta del Este, Uruguay, Nov 30 - Dec 1, 2023 (pp.699-710). Blucher. ISBN: 978-9915-9635-0-1

Daubmann, Karl. "Curation versus Creation". **Artificial Intelligent Architecture**. ORO Editions 2023. book chapter: Robot Historian on Kelleys Island

Codarin + Daubmann. "VR Gestural Modeling to Recapture the Human Body in Design". **ACSA 110th Annual Meeting. Proceedings**. presented March 2022

Codarin, S., Daubmann, K., Dean, K., Kutil, E. (2022). Building in the Digital Transformation: Translations from Design to Technological-Enabled Demountable Building. **Proceedings of ARCC-EAAE: Resilient City, Virtual Session**, May 23, 2022 (p.790). Architectural Research Centers Consortium. ISBN: 978-1-935129-31-8

Daubmann, Karl. "The Role of the Hand in Digital Design". **Digital Fabrication in Interior Design: Body, Object, Enclosure**. Routledge 2021. book chapter

Codarin + Daubmann. "Speculative Physical Models Created Through a Robotic Process". **Proceedings of Cumulus Rome 2020 - Design Culture(s)** June 2021 (double blind peer-reviewed)

Daubmann, Karl and Jacobi, Lauren. "From String to Volume". **Finding San Carlino**. Routledge 2019. book chapter

Daubmann, Karl. "Interplay of Design, Technology, Manufacturing, and Business". **Mass Customization and Design Democratization**. Routledge 2019. book chapter

Daubmann, Karl. "Cosmogonic Technologies". **Jim Cogswell - Cosmogonic Tattoos** (Exhibition Catalog). University of Michigan Museum of Art 2017. pp. 30-33. book chapter

Daubmann, Karl. "Driven By Technology". **CAM Magazine - Construction Association of Michigan**. September 2017.

Daubmann, Karl; Foley, Ric; Reed Qetuwrah; Zhang, Zhujing. "RoboPinch - Robotic Manipulation of Fabric Formwork for the Creation of Plaster Architectural Models". **Proceedings from the International Society of Flexible Formwork**. Amsterdam 2015. (peer reviewed)

Daubmann, Karl and Reed, Qetuwrah. "Rules of the Road: Connecting Cities to Underutilized Freeway Infrastructure Zones through Parametric Urbanism". **Proceedings from the AIA / ACSA Intersections Conference**. Atlanta 2015. (peer reviewed)

Marshall, Shtein, Daubmann. "SmartSurfaces: a hands-on, multidisciplinary think-tank". Published in **Performative Practices: Architecture and Engineering in the 21st Century**, Moe, & Braham (eds). Washington, DC 2011: ACSA Press. pp. 34-43.

Daubmann, Karl. "Tailors After Taylorism". **Future Wood - Innovation in Building Design + Manufacturing**. ed. O. Neumann, P. Beesley, Canadian Design Research Network CDRN, Riverside Architectural Press, Cambridge Ont. 2007 pp. 94 - 101 (invited)

Daubmann, Karl. "Teaching Digital Fabrication through Design". **Fabrication: Examining the Digital Practice of Architecture**. ed. Beesley, Cheng, Williamson, pp. 244 - 255 Toronto: Coach House Press, 2004. (peer reviewed)

Daubmann, Karl. "Math, Means & Material". *Evolving Tools: Digital Fabrication in Architectural Education*. ed. Aron Temkin, pp. 19 - 20 Toronto: Coach House Press, 2004. (invited)

Malkawi, Ali and Daubmann, Karl. "Integrating Sensor and Computational Modeling for Energy and Light." *Proceedings of the 2nd EAAE-ARCC conference on Architecture Research* (peer reviewed)

Sheehan, Tony; Friend, Clifford; Daubmann, Karl. "Smart materials in construction: performance gains and barriers to commercial exploitation." *Proceedings SPIE Vol. 4073 Fifth European Conference on Smart Structures and Materials*. (2000). pp 98 - 103 (peer reviewed)

Daubmann, Karl and Tony Sheehan. "Comprehensive Visualization for Architectural Material Selection." *Smart Graphics: Papers from the 2000 American Association of Artificial Intelligence Spring Symposium*. Menlo Park, CA: AAAI Press, 2000. pp 34 - 38 (peer reviewed)

## Book Citations: Design Work

Bleeker, Julian (ed.) TBD Catalog: Near Future Laboratory. (Member of editorial and conceptual team)

Robbins, Mark. "Chicago Public Schools." *New Public Works*. (Princeton Architectural Press, New York, 2013.) p. 80-85.

Czerniak, Julia. Formerly Urban: Projecting Rust Belt Futures. (Princeton Architectural Press, New York, 2013.) p. 158.

Contemporary Follies. Moskow & Linn. (The Monacelli Press, 2012) p 132-137.

Aubert, Danielle. Thanks for the View, Mr. Mies: Lafayette Park, Detroit. New York, NY: Metropolis Books. p.173.

Prefabulous + Almost Off the Grid. Koones, Sheri. (Abrams, New York, 2012) p100-105. Mi Young, Pyo (ed.) Architectural Diagrams. Berlin: DOM Publishers, 2010.

"Teahouse for Robots," in Trouble in Paradise: Medi(t)ation of Survival Workbook, Exhibit Catalogue, National Museum of Modern Art, Kyoto Japan. Maari Ikezawa, Shinji Kohmoto, Chinatsu Makiguchi, Ellie Nagata editors. 2010

Mi Young, Pyo (ed.) Advanced Interior Design. 1st. Seoul: Damdi Publishers, 2009.

1000x Architects of the Americas, Michelle Galindo editor, Braun Publishers, 2009, p. 134. Mi Young, Pyo (ed.) Advanced Public Design. 1st. Seoul: Damdi Publishers, 2009. p.694 - 697

Eat!: Best Restaurant Design. Annika Schulz, ed., Braun Publishers, 2009, p. 294-303.

Engelhorn, Beate (ed.) Young Americans: New Architecture in the USA. 1st. Frankfurt am Main: DOM Publishers, 2007. p. 252 - 263

Architectural League of New York, Young Architects 8: Instability. 1st. New York: Princeton Architectural Press, 2007. (pp. 98 - 123)

Future Wood, Innovation in Building Design + Manufacturing - Ed. Neumann & Beesley Kottas, Dimitris.

Urban Spaces: Squares & Plazas. 1st. Barcelona: Links, 2007. p. 144 - 151

The Perfect \$100,000 House: A Trip Across America and Back in Pursuit of a Place to Call Home. Karrie Jacobs. (New York: Viking Press) p. 54-58.

Klijn, Olv. "A Joint Practice: Interview with Karl Daubmann." Concrete Design Book on Robustness. Bakker, Siebe (ed.). 's-Hertogenbosch: ENCI Media, 2004. p. 81 - 85

## Lectures / Conferences / Panels

"Collaborative Intelligence: Speculating Unknown Territory" 2025 AIA Oklahoma Conference: Uncharted Horizons, (co-presented with Codarin) invited October 2025

"Artificial Environments" School of Visual Arts NYC (co-presented with Codarin) invited September 2025

"Flint House" Michigan AIA Design Retreat (co-presented with Codarin) invited September 2025

"Labor Disrupted" AIA Large States at Mackinac Island invited September 2025

"Creative Practice in the Age of Intelligent Machines" AIA NJ Technology in Arch Practice summer lecture series (co-presented with Codarin), invited July 2025

"AI & Architecture" Tracing Architecture Podcast (with Codarin and Kelly). April 2025 ([link](#))

"Generative Practice" Saroki Lunchtime Lecture (co-presented with Codarin), invited March 2025

"AI Accelerated Creativity" KPF NYC (co-presented with Codarin), invited February 2025

"Assistive Architecture" ACSA Intersections (co-presented with Codarin), January 2025

"AI-Assisted Design Practice" AIA Michigan ArchiFusion Conference (co-authored with Codarin and Neiswender), invited November 2024

"AI design tools" lecture for DLZ company-wide retreat, Indianapolis, invited, August 2024

"Labor in the Age of AI" AMPS Barcelona: Heritage, Cultures, Cities July 2024 with Codarin

"AI in Practice for Rapid Ideation" AIA National Convention June 2024 with Codarin

"Humanizing VR: Foregrounding the Role of the body in Digital Twins" EURAU Milan: In Presence / The Body and the Space June 2024 with Sara Codarin

"AI-informed Field Notes for a Roman Travel Experience" EAAE/ARCC conference: Architecture into the Unknown with Sara Codarin May 2024

"Visual Exploration of Past and Future Kelleys Island" Society of Industrial Archeology Conference May 2024 Conference Presentation

"Navigating the Future: Placing Students at the Heart of Higher Education" InsightsEDU Feb 2024

"Rom(AI)nterrotta" SIGraDi: Accelerated Landscapes November 2023 with Sara Codarin

"Mobile Detroit" An Introduction to AI for Designers, Panelist, Digital Futures September 2023

"Education of the next generation of Architects & Contractors" Panelist MI AIA Midsummer Conf August 2023

"AI for Rapid Ideation" AIA Detroit Leadership Development Program invited by Christopher Kelley Leadership Development Program, August 2023 with Sara Codarin

"Re-Spatializing Architectural Education" Panelist ACSA Administrators Conference, Boston November 2022

"Design Education Rethought" Keynote at Gravity Sketch Inaugural Conference: Around November 2021

"Design, Technology, and Practice - Lessons from Detroit" University of Ferrara School of Architecture. PhD Symposium Digital Transformations and New Challenges. November 2019

"Disembodied Craft: Making in the Age of Robots" University of Ferrara School of Architecture November 2019

"Using Tech to Transform Roles + Responsibilities" AIA Colorado Practice and Design Conf. November 2019

"Hacking Practice" Keynote - AIA Oklahoma Conference on Architecture October 2019

"Hand to Mouth" San Jose State University Lecture Series September 2019

"Design Leadership" AIA Tulsa Leadership Symposium May 2018

"Borrow, Hack, and Ship" Presentation to OAA Conference in Toronto May 2018 with Shall and Stevens

"Prefab Housing Leveraging Technology" at Digital Building Lab Annual Symposium Georgia Tech October 2017

"Hand to Mouth" Body, Object Enclosure Symposium at Ryerson School of Interior Design October 2017

"BLU Homes – Design, Technology, Manufacturing, and Business" International Symposium on Mass Customization and Design Democratization Penn State May 2017

"Bitten by Borromini" LTU College of Architecture and Design Spring Lecture Series March 2017 "Rules of the Road" Michigan AIA Design Retreat October 2016

"ShopDrawing" American Academy in Rome Shop Talk Series March 2016 "Processing Borromini" International Studies Institute Florence March 2016

"What would Borromini do with Robots?" Univ. of Washington Rome Center November 2015

"Some Assembly required" AIA Cincinnati Vision - Keynote lecture and one day workshop on Innovative Project Delivery and the Impact on Practice Models - May 2015

"Rules of the Road" - Intersections Between the Academy and Practice - National AIA Conf. Atlanta - May 2015

"Residential Prefabrication" Prefab Session at AIA National Convention Denver, CO 2013

"When How Becomes What" - Boston Architectural College - Sasaki Public Lecture 2013

"A Passion for Prefab" - Dwell on Design - Los Angeles w/ Bill Haney and Kelsey Keith 2013

"Efficient Excess" - Keynote: AIA Colorado Practice and Design Conference 2012

"Efficiencies" - University of Colorado Boulder - College Lecture Series 2012

"Excess Efficiencies" - Roger Williams University - College Lecture Series 2011

"Edgy Practices: Creatives Making Their Mark" - Rust Belt to Artist Belt Conference, Detroit 2011

"Shadow Pavilion" - Architect Magazine R&D Symposium 2010

"Building Practice" - Hatch Festival Architecture Keynote Address - Asheville, NC 2010

"Recent Work" Integrated Practices Hearst Lectures - CalPoly 2009

"Recent Work" Centro de Arquitectura y Diseno in Rosario, Argentina

"Recent Work" University of Buffalo 2008

Keynote Address - AIA Florida's Emerging Professionals Conference - Sarasota, FL 2008

"Slow Architecture" University of Cincinnati 2007

"Ornament and Technology" Seminar Presentation - Yale University 2007

Moderator - Future Wood, Innovation in Building Design + Manufacturing University of British Columbia 2007

"Surface Strategies" Bolzano Architect's Foundation, Italy 2007

"Material Matters" Catholic University of America - Summer Institute 2006

"Material Alchemy" Young Architects Forum - Architectural League of New York 2006

"Digital Material" Clemson University 2006

"Building Practice Symposium" University of Illinois at Urbana-Champaign 2006

Mies Plaza + BTB Interior Michigan AIA Design Retreat 2005

"Fabricated Robustness" Berlage Institute, Rotterdam 2005

"Extremely Subtle" University of Cincinnati 2004

"Means, Material and Math" Indiana AIA Year End Dinner 2004

"Numeric Instructions for Construction" - ACSA National Conference Miami, FL Presented work from the 2003 Wallenberg Studio 2004

"Thick Skins - Extending the Threshold" - ACSA Technology Conference Austin, TX Presented work from graduate design option studios 2001

"Dynamic-hybrids and Their Role in the Post-Fordist City" ACSA National Conference - Los Angeles, CA 2000

## Invited Exhibitions

"Transductions: Artificial Intelligence in Architectural Experimentation" **Pratt Schafler Gallery** February 2025 includes work from Baroque Studies and Robot Historian (invited)

"Constructing Futures" **Detroit Month of Design** September 2024 (curated international call for AI images)

"Mobile Detroit 2050" **Detroit Month of Design** September 2023 (curated international call for AI images)

"Craft in the Digital Age" **Ford House - Detroit Month of Design** September 2022 (invited)

"Body, Object, Enclosure" **Design Exchange Toronto** October 2017 (invited)

"Bitten by Borromini" **Cinque Mostre - Across the Board American Academy in Rome** February 2016

"RoboPinch" **ACADIA Peer Reviewed Project Exhibit University of Cincinnati** October 2015 (peer reviewed)

"Research through Making" **College of Architecture Gallery Taubman College** 2015

"Research on the City" **College of Architecture Gallery Taubman College** 2014

"Research through Making" **College of Architecture Gallery Taubman College** 2014

Hideo Sasaki Distinguished Visiting Critic Exhibit - **Boston Architectural College** 2013

archiCULTURAL Exhibition for **Detroit Design Festival** 2012

AR+D Exhibit - **RIBA London** [Shadow Pavilion] 2012

**National Museum of Modern Art Kyoto** - "Trouble in Paradise / Medi(t)ation of Survival" [Tea House for Robots] 2011

"Research through Making" **College of Architecture Gallery Taubman College** 2010

**Scottsdale Museum of Contemporary Art**, October - January [Flip a Strip Competition] 2009

"et dukkehjem," **Museum of the City of Skopje, Macedonia** Group Exhibition (collaboration with rooftwo) 2009

"ApARTment," **Museum of Contemporary Art Detroit** [PLY\_lights] 2008

"Young Americans" **Architecture Museum, Frankfurt** 2007

"Hautegreen: Sustainable Design for the Home" **Flatiron Bldg, NY** [PLY lights] 2007

"Ecospectives" **Gallery of Functional Art, Los Angeles** [PLY Lights] 2007

"Future Wood, Innovation in Building Design + Manufacturing" **UBC Vancouver** [Choice Dental] 2007

"Young Architects Exhibit" **Architectural League of New York** 2007

"New Schools" **Cornell University** [Robbins Elementary School Competition Proposal] 2006

"Building Practice" **University of Illinois at Urbana-Champaign** 2006

"Fabrications Exhibition" **ACADIA National Conference** [Big Ten Burrito] 2006

"Speculative Chicago - A Compendium of Architectural Innovation" **Gallery 400 UIC** 2004

"Critical Mass" **Museum of New Art - Detroit, MI** [Case Study House] 2003

Case Study Houses - **University of Toronto** [Case Study House] 2003

"House: Case Study Cleveland," **SPACES Gallery, Cleveland, Ohio** 2002

"Chicago Public School Competition Finalists" **Chicago Architectural Foundation** 2001

"BuildBoston" **Architect's Building, Boston** [Midwest Prototype Church] 2001

"Fellows Work" **College of Architecture Gallery University of Michigan** 2000

"Adaptive Technologies and Smart Materials" **Architectural Association Gallery, London** 1998

"Finalists for CSI Detailing Competition" **City Hall Plaza Boston** 1998

"Bridging Montreal Competition" **Festival of Architecture, Hangar 7, Old Port of Montreal** 1997

"Bridging Montreal Competition" **Ruelle des Fortifications in Old Montreal** 1997

## Funded Research

**U.S. Army Engineer Research and Development Center (ERDC)** - Construction Engineering Research Laboratory, Commercial Solutions Opening (CSO) Advanced Methods and Designs for Additive Construction (\$150,000) PLOP as project collaborator. Proposal awarded. Awaiting funding. 2025

**NextCycle Michigan** - development of 3D printing recycled glass (\$250,000) Principal Investigator (PLOP) 2024

**Startup funding for PLOP** - 3D printing for large-scale additive manufacturing from **Centropolis Accelerator** (\$120,000) Co-PI with Sara Codarin (PLOP) 2024

"Mass Timber / Massive Collaboration" **Gensler Charitable Trust Fund** - support for the development of a multidisciplinary course and symposium (\$100,000) 2024

University of Michigan **Office of Research: Faculty Grants Program** (\$15,000) [Rules of the Road: Detroit] 2014

**Research Through Making** - TCAUP Faculty Grant (\$20,000) [RoboPinch, Pull, Push] 2014

**Research on the City** - TCAUP Faculty Grant (\$20,000) [Rules of the Road] with: Marshall and Charles 2014

**Research Through Making** - TCAUP Faculty Grant (\$20,000) [City of Night] with: Newell and Kahn. 2013

**Research Through Making** - TCAUP Faculty Grant (\$20,000) [In Search of the (w)hole] 2009

University of Michigan **Office of the Vice President for Research: Funds for Research and Scholarship.** "Variable, Adaptable, Reflexive and Responsive." Collaborator with John Marshall as PI (\$20,000) [Teahouse for Robots] 2009

University of Michigan - **Multidisciplinary Learning and Team Teaching Initiative** (\$81,000) 2009

Parametric Modeling Faculty Training - Coauthored with Neil Thelen (\$10,000) Faculty Development Grant - **UM Center for Research on Learning and Teaching** 2007

University of Michigan Technology Grant (\$24,000) **Center for Advanced Research and Academic Technologies** Development of constructional prototypes for generic complex geometry. 2002

"Digitizing the Lab" **Taubman College Technology Integration Grant** (\$8,000) The grant supported a graduate design studio exploring the relationship between digital and physical artifacts through the use of a Microscribe digitizer. 2001

"Simulation Studio Support" **Taubman College Technology Integration Grant** (\$9,000) Funding provided software support and external expertise in Computational Fluid Dynamics simulation. 2000

"Data Synthesis - A Comprehensive Visual Approach to Material Selection" (\$10,000) **MIT Goody Prize** to support graduate thesis research. 1999

"Simulation Integration" **EDCO Grant** Sponsored by Boston Architectural Center (\$5,000). 1998

## Invited Design Studio Juries + Juries

Jury Chair - **AIA NY Design Awards Jury Chair** - October 2025

Penn, Ball State, University of Washington, Temple University, UC Berkeley, University of Detroit Mercy, Ohio State University, Roger Williams University, Northeastern University, University of Cincinnati, SCL\_Arc, Mississippi State

## Doctoral Committees

Committee Member - **Omid Oliyan** "Generative Reciprocity: A Computational Approach for Performance-Based and Fabrication-Aware Design of Reciprocal Systems" 2020

Committee Member - **Niloufar Emami** "Parameter and Performance: Integrated Computational Performance Assessment of Structural and Daylighting Efficiency in Perforated Concrete Shell Structures" 2018

## Recent Courses Developed + Taught at LTU

**Critical Practice Design Build Studio** - Summer 2019, 2020, 2021, 2022, 2023, 2024 (co-taught and coordinated) Design / build studio for entering graduate students with a one week on campus residency to build a project

**Design Leadership** - Fall 2020, 2021, 2022, 2023 (developed and taught, handed off undergrad section in fall 2022) Multidisciplinary flipped lecture course on forms and practices of leadership in design fields

**Simulation and Prototyping** - Spring 2020 (developed and taught, handed off to adjunct faculty in 2021) Graduate seminar on digital design using Rhino Grasshopper

**Labor in the Age of AI** - Summer 2023 (co-developed and co-taught) Special topics seminar for undergrad and grad students using gen AI to develop storyboards / design fictions

**Digital Bodies** - Spring 2021, Summer 2021 (developed and co-taught) Special topics seminar for undergrad and grad students using Gravity Sketch VR software

**Rome-ing Around** - Spring 2022, 2023, 2024 (co-developed and co-taught) Travel experience course with mix of 20 grad and undergrad students culminating in a 6 day trip to Rome

**BIM Programming and Prototyping** - Summer 2018, Fall 2018, Fall 2020 (developed) Seminar on digital design for grad and undergrad making use of CATIA

## Recognition of Student Design Work

Honorable Mention Architect's Newspaper AN's 2024 Best of Design Awards for LTU Design Build Studio 2023

Platinum Award International Architecture & Design Awards (ADC) for LTU Design Build Studio 2023

Silver Award - The International Design Awards (IDA) for LTU Design Build Studio 2023

Alumni Award for Undergraduate Design Studio: Remember Sammy Jankis 2005

Digital Heartland Exhibit -included work of Lindsay Wai and Adam Fure ACADIA National Conference 2003

Wallenberg Student Honorable Mention - Andrea Righi 2002

Alumni Award for Graduate Options Studio: Daly Genik Daubmann Studio 2001

## Fundraising Outcomes

**Endowed Gift** - Phased gift to support Affleck House, create an Affleck scholarship, and the Affleck Teaching fellowship. \$1,200,000 in 2025

**Equipment Donation** - Donation of six Kuka industrial robots from Ballard International in 2025

**Endowed Scholarship** - Worked with the Distinguished Architecture Alumni to create an endowed scholarship to support students wishing to continue in the MArch degree from their undergrad at LTU. 2023

**Equipment Donation** - Donation of five ABB table top robots from Ballard International in 2022

**Planned Gift** - Worked with LTU Advancement on alumni planned gift for \$1,000,000 in 2021

**Equipment Donation** - Donation of two large Kuka robots from Ballard International in 2020