

Daniel Cardoso Llach

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Education

- 2007-12 Ph.D. in Architecture: Design and Computation.
Massachusetts Institute of Technology, Cambridge, US.
School of Architecture and Planning. Presidential Fellow.
- 2005-07 Master of Science in Architectural Studies (SMArchS): Design and Computation.
Massachusetts Institute of Technology, Cambridge, US.
School of Architecture and Planning. Best Thesis Award.
- 1997-01 Professional Bachelor of Architecture.
Universidad de los Andes, Bogotá, Colombia.

Academic Appointments

- Faculty Positions
- 2016- Assistant Professor in Architecture: Computational Design at Carnegie Mellon University School of Architecture, Pittsburgh, US.
- 2015-2016 Special Faculty in Architecture: Computational Design at Carnegie Mellon University School of Architecture, Pittsburgh, US.
- 2012-2015 Assistant Professor in Architecture: Design Computing at Penn State Department of Architecture, University Park, US.
- 2002-2005 Instructor in Architecture, Universidad de los Andes, School of Architecture and Design, Bogotá, Colombia.
- Fellowships & Scholarly Visits
- 2016 Visiting Scholar at the Martin Centre for Architectural and Urban Studies, Department of Architecture, University of Cambridge, Cambridge, UK. Jan-Aug.
- 2016 Research fellow at the Institute for the Advanced Study of Media Cultures of Computer Simulation (MECS), Leuphana Universität, Lüneburg, Germany. Apr-May.
- Teaching & Research Assistantships
- 2006-2012 Massachusetts Institute of Technology, School of Architecture and Planning, Department of Architecture Design and Computation Group, Digital Design and Fabrication Group, Mobile Experience Laboratory. Cambridge MA, US.

2001-2002 Universidad de los Andes, School of Architecture and Design Research Center (Centro de Investigaciones de la Facultad de Arquitectura y Diseño, CIFAD), Bogotá, Colombia.

University Service

Carnegie Mellon 2015-2018 Track Chair of the MS in Computational Design 2015-,
Co-chair of the SoA Graduate Programs Committee 2016-,
Co-director of the Computational Design (CODE) Laboratory 2015-,
University Senator 2017-.

Penn State 2012-2015 Presidential Commission for Racial and Ethnic Diversity 2013-15,
College Faculty Advisory Council 2013,
Chair of the Stuckeman Center for Design Computing (SCDC) Executive Committee 2014-2015,
Stuckeman School Director Search Committee 2013,
Architecture Graduate Curriculum Committee 2014-15,
Graduate Admissions Committee 2014,
Technology Committee 2012,
Design Computing Research Cluster Curriculum 2013-15,
“Beehive” Faculty Advisor 2013-15.

MIT 2010 Design and Computation program Admissions Committee.

Universidad de los Andes 2002-2005 Department of Architecture, Publications and Media Office Digital Publications.

Refereed Publications

Books 2015 Daniel Cardoso Llach, *Builders of the Vision: Software and the Imagination of Design* (New York and London: Routledge, 2015).

2010 Rafael Villazón, Daniel Cardoso Llach, and Leonardo Parra, eds., *SIGraDi 2010: Proceedings of the 14th Congress of the Iberoamerican Society of Digital Graphics* (Uniandes, 2010).

Book Chapters 2018 Daniel Cardoso Llach, “Tracing Design Ecologies” in *DigitalSTS: A Handbook and a Fieldguide*, ed. Janet Vertesi and David Ribes, (Princeton University Press: Forthcoming 2018).

2018 Daniel Cardoso Llach, “Data as Interface: The Poetics of Machine Learning in Design” in *Machine Learning – Medien, Infrastrukturen und Technologien der Künstlichen Intelligenz*, eds. Christoph Engemann and Andreas Sudmann ([transcript-verlag]: Forthcoming 2018).

- 2017 Daniel Cardoso Llach, "Architecture and the Structured Image" in *Imagery in the Age of Modelling: Operative Artifacts in the Design Process in Architecture and Engineering*, ed. Sabine Ammon and Inge Hinterwaldner (Springer: 2017).
- 2010 Daniel Cardoso Llach, "Scripts in the Architecture Studio," in *Computational Constructs: Architectural Design, Logic and Theory*, ed. Josh Lobel and Shouheng Cheng (Shanghai: 2010) 180–90.
- 2017 Daniel Cardoso Llach and Robin Forrest. "Of Algorithms, Buildings and Fighter Jets: A Conversation with Robin Forrest." *Arq: Architectural Research Quarterly* 21, no. 1 (March 2017): 53–64. <https://doi.org/10.1017/S1359135517000173>.
- 2017 Andrew Viny, Avanti Dabholkar, and Daniel Cardoso Llach. "Two Design Experiments in Playful Architectural Adaptability." *Nexus Network Journal* (July 11, 2017): 1–15. <https://doi.org/10.1007/s00004-017-0350-z>.
- 2017 Daniel Cardoso Llach, Ardavan Bidgoli, and Shokofeh Darbari. "Assisted Automation: Three Learning Experiences in Architectural Robotics." *International Journal of Architectural Computing (IJAC)* 17 (March 1, 2017): 87-102.
- 2015 Daniel Cardoso Llach, "Software Comes to Matter: Towards a Material History of Computational Design," *DesignIssues* 31, no. 3 (Summer 2015): 41–55, doi:10.1162/DESI_a_00337. (Version of *Builders*, Ch. 3.)
- 2013 Daniel Cardoso Llach, "Algorithmic Tectonics: How Cold War Era Research Shaped Our Imagination of Design.," *AD Architectural Design: Computation Works* 83, no. 2 (March 12, 2013): 16–21 (not blind).
- 2012 Daniel Cardoso Llach, "Esclavos Perfectos: Breve Historia de La Ciber-Arquitectura En MIT (1959-1967)," *Dearq*, no. 10 (August, 2012): 48-59.
- 2011 Daniel Cardoso Llach, "Inertia of an Automated Utopia: Design Commodities and Authorial Agency 40 Years after the Architecture Machine," *Thresholds*, no. 39 (July, 2011): 39–44.
- 2010 Daniel Cardoso Llach, "Shift+Design: Scripts and Other Design Artifacts," *International Journal of Architectural Computing (IJAC)* 8, no. 1 (January 1, 2010): 17–28, doi:10.1260/1478-0771.8.1.17.
- 2009 Daniel Cardoso Llach and Remei Capdevila Werning, "Arquitectura, diseño y computación," *Dearq* 1, no. 4 (2009): 136–40.

Peer Reviewed Conferences

- 2018 Lu Han and Daniel Cardoso Llach, "Ludi: A Concurrent Physical and Digital Modeling Environment," in *Learning, Adapting, Prototyping* (Association for Computer-Aided Architectural Design Research in Asia Conference - CAADRIA, Beijing, China, March 2018).

- 2016 Daniel Cardoso Llach, Ardavan Bidgoli, and Shokofeh Darbari, “Of Hands and Robots: Creativity and Learning in Architectural Robotics Pedagogy,” in *Creating a Sustainable Ecosystem for Making in Education* (FabLearn Conference, Stanford University, 2016).
- 2016 Avanti Dabholkar and Daniel Cardoso Llach. “Biometrically-Responsive Architecture: Mapping Biometric Data to Dynamic Spatial Change,” in *Architecture In-Play International Conference Proceedings* (Architecture In-Play, Instituto Universitario de Lisboa, 2016).
- 2016 Andrew Viny and Daniel Cardoso Llach, “[Yours]: Distributing Design Agency through Multi-Modal Interactors,” in *Architecture In-Play International Conference Proceedings* (Architecture In-Play, Instituto Universitario de Lisboa, 2016).
- 2015 Vina Rahimian, Lisa Iulo, and Daniel Cardoso Llach, “Participatory Energy Management in Building Networks” in *The First International Symposium on Sustainable Human-Building Ecosystems Proceedings* (Carnegie Mellon University, 2015).
- 2015 Ardavan Bidgoli and Daniel Cardoso Llach, “Towards a Motion Grammar for Robotic Stereotomy,” in *Emerging Experiences in the Past, Present and Future of Digital Architecture* (Association for Computer-Aided Architectural Design Research in Asia - CAADRIA, Kyungpook National University, Daegu, Republic of Korea. 2015).
- 2014 Daniel Cardoso Llach, “Aedificatoria Binaria: On the Cold War Invocation of Alberti’s Ghost,” in *What’s the Matter: Materiality and Materialism at the Age of Computation* (ENHSA, EAAE, COAC, Barcelona, Spain, 2014).
- 2014 Daniel Cardoso Llach et al., “Acacia: A Simulation Environment for the Design and Analysis of Highly Responsive Building Facades,” in *Proceedings of the 5th Annual Symposium on Simulation for Architecture and Urban Design - SimAUD* (Tampa, FL, 2014): 193-200.
- 2014 Seoug Oh, Veronica Patrick, and Daniel Cardoso Llach, “Typologies of Interaction in Architectural Space,” in *Proceedings of the 5th Annual Symposium on Simulation for Architecture and Urban Design - SimAUD* (Tampa, FL, 2014): 65-72.
- 2009 Daniel Cardoso Llach, Avni Argun, Dimitar Dimitrov, Qi Ai, “Drawing Transparencies: Responsible Responsiveness in Spaces Through Organic Electrochromism,” in *Computation: The New Realm of Architectural Design* (eCAADe Conference, Istanbul, Turkey, 2009): 83–88.
- 2009 Daniel Cardoso Llach, “Generative Craft: A Brief Critical Inquiry into Design Automation and Design Automata” in *From Modern to Digital: The Challenges of a Transition* (SIGraDi Conference, Universidade Presbiteriana Mackenzie, Sao Paulo, 2009): 288-290,
http://cumincades.scix.net/data/works/att/sigradi2009_948.content.pdf.

- 2008 Daniel Cardoso Llach, “Design and the Automated Utopia: Certain Assumptions in Digital Design Culture,” in *What Matters? Proceedings of the First International Conference on Critical Digital*, (Critical Digital Conference, Harvard University, 2008).
- 2008 Daniel Cardoso Llach and Lawrence Sass, “Generative Fabrication,” in *Proceedings of the Third International Conference on Design Computing and Cognition* (Design Computing and Cognition '08, GeorgiaTech, Atlanta: Springer, 2008): 713–32, http://dx.doi.org/10.1007/978-1-4020-8728-8_37.
- 2007 Daniel Cardoso Llach, Dennis Michaud, and Lawrence Sass, “Soft Façade: Steps into the Definition of a Responsive Facade for High-Rise Buildings,” in *Predicting the Future* (eCAADe Conference, Frankfurt, 2007): 567–73.
- 2007 Lawrence Sass, Dennis Michaud, and Daniel Cardoso Llach, “Materializing a Design with Plywood,” in *Predicting the Future* (eCAADe Conference, Frankfurt, 2007): 629-636.
- 2006 Daniel Cardoso Llach, “Controlled Unpredictability: Constraining Stochastic Search as a Form-Finding Method for Architectural Design,” in *Proceedings of the 10th Iberoamerican Congress of Digital Graphics* (Sigradi Conference, Santiago de Chile, Chile, 2006): 263-267.
- 2017 Daniel Cardoso Llach, “Plexes and Patches: Ambivalent Artifacts of Computer-Aided Design,” in organized panel “The Valence of Misplaced Concreteness” in *STS (In)Sensibilities* (4S: Society for the Social Studies of Science, Boston, September 2017).
- 2017 Daniel Cardoso Llach, “Software Comes to Matter: An Episode in the Material History of Computational Design,” in *Command Lines: Software, Power and Performance* (Meeting of the Special Interest Group Computers, Information and Society SIGCIS, Computer History Museum, Mountain View, CA, March 18-19 2017).
- 2016 Daniel Cardoso Llach, “Between Automated Utopia and Augmented Practice: Steve Coons’s CAD, and the early future of Computational Design.” In *Disciplines in Transition* panel (3 Societies Meeting, Edmonton, Canada, June 2016).
- 2014 Daniel Cardoso Llach, “The Architect’s Bargain: Building the Bilbao Effect in the Abu Dhabi Desert,” in *Industries of Architecture: Relations, Process, Production* (Industries of Architecture Conference, University of Newcastle, Newcastle, UK, 2014).
- 2013 Daniel Cardoso Llach, “Design Conflicts: Visualizing Collective Agency in BIM” in *4S Annual Meeting* (4S: Society for the Social Studies of Science, San Diego, CA, 2013).

Unpublished
conference
presentations

- 2013 Daniel Cardoso Llach, "Seeking a Lingua Franca: Images of Building Information Modeling" in *Operative Artifacts: Imagery in the Age of Modeling Conference* (University of Basel, Switzerland, 2013).
- 2010 Daniel Cardoso Llach, "The Poetics of Automation: Conceptions of Human and Non-Human Agency in Design," in *4S Annual Meeting* (4S: Society for the Social Studies of Science, University of Tokyo, 2010).
- 2009 Daniel Cardoso Llach, "New Geography of Design" in *European Conference of Computation and Philosophy* (IACAP, Barcelona, 2009).
- 2008 Daniel Cardoso Llach and Takehiko Nagakura, "The Melnikov Grammar" in *3A International Conference of Computer Graphics and Artificial Intelligence* (Athens, 2008). Not presented in person.
- 2004 Daniel Cardoso Llach, "Information Surfaces: Architecture as a multimedia practice." in *COVIRARQ* (Caracas, Venezuela, 2004). Not presented in person.
- 2018 Javier Argota Sánchez-Vaquerizo and Daniel Cardoso Llach. "Tracing Design Ecologies: A Networks Perspective." In *Eight International Conference on Design Computing and Cognition* (DCC '18, Milan, Italy, Jun 30-Jul 1 2018).
- 2017 Cardoso Llach, Daniel. "Tracing Design Ecologies: Trees, Maps, Fields, Networks." In *4S Annual Meeting* (4S: Society for the Social Studies of Science, Boston, MA, 2017.) http://www.4sonline.org/md17/post/tracing_design_ecologies.

Poster
Sessions

Other Major Publications

Reviews and
Essays

- 2018 Daniel Cardoso Llach, "An Archaeology of CAD: Reconstructing 'Sketchpad' and the 'Coons Patch'" in *Leonardo Journal*, 2018 (forthcoming).
- 2017 Daniel Cardoso Llach and Nida Rehman, "Functional Utopias: Interrogating Latin America's New Modernisms," *Urban Flux Architecture Magazine: The New Future of Colombian Architecture*, no 16. (2017).
- 2012 Nida Rehman and Daniel Cardoso Llach, "The Manhattan Promenades," in *By the City / For the City: An Atlas of Possibility for the Future of New York*, 1st ed. (New York: Mult, 2012), 296–97.
- 2012 Daniel Cardoso Llach, "Lessons on Realarchitektur: The 'Bosque de La Esperanza' by Giancarlo Mazzanti and the Social Moment of Colombian Architecture," *Cuadernos de Vivienda Y Urbanismo* 5, no. 9 (June 2012): 142–56. Reviewed Building: "Bosque de La Esperanza" by Giancarlo Mazzanti.
- 2011 Daniel Cardoso Llach, "La vanguardia es así: ansiedades paramétricas en *From Control to Design*," *Dearq*, no. 8 (July 2011): 153–55. Reviewed Book: Michael Meredith et al., *From Control to Design: Parametric/Algorithmic Architecture* (Actar, 2008).

- 2002 Daniel Cardoso Llach, "Blur: La Construcción de La Nada," *Piedepágina*, March 2005. Reviewed book: Ricardo Scofidio, *Blur: The Making of Nothing* (Harry N. Abrams, 2002).
- Course-books
- 2015 Daniel Cardoso Llach, ed. *Fall 2015 Thesis Studio*. (Carnegie Mellon University School of Architecture, 2015).
- 2015 Daniel Cardoso Llach et al, *Exploring Algorithmic Tectonics: A Course on Creative Computing in Architecture and Design* (University Park: SCDC Press, 2015).
- Catalogues and event booklets
- 2017 Daniel Cardoso Llach, ed. *Computational Design: Practices, Histories, Infrastructures*. Event catalogue for organized symposium at Carnegie Mellon, School of Architecture, hosted by the STUDIO for Creative Inquiry.
- 2017 Daniel Cardoso Llach, ed. *Designing the Computational Image, Imagining Computational Design*. Exhibition catalogue for curated exhibition at the Miller Gallery, Carnegie Mellon University.
- 2015 Daniel Cardoso Llach, ed. *Design Across Boundaries: An Event and a Conversation about Transdisciplinary Design Practices* (University Park: SCDC Press, 2015). Event catalogue for organized symposium at Penn State, Stuckeman School of Architecture and Landscape Architecture.
- 2015 Daniel Cardoso Llach, *Responsive Architectures: A Report of the Design Ecologies Research Group* (University Park: SCDC Press, 2015).

Exhibitions

- Curated and designed
- 2017 "Designing the Computational Image, Imagining Computational Design." Miller Gallery, Carnegie Mellon University. September-November 2017.
- Work presented
- 2018 "Original Narratives," SIGGRAPH 2018 Art Gallery, Vancouver, Canada, Forthcoming August 12-16, 2018. On display: "An Archaeology of CAD: Reconstructing 'Sketchpad' and the 'Coons' Patch."
- 2018 "Composites Challenge Exhibition," AIA Convention, New York, June 21-23, 2018. On display: Tutored work by two "Fundamentals of Computational Design" student teams.
- 2017 "Designing the Computational Image, Imagining Computational Design." Miller Gallery, Carnegie Mellon University. September-November 2017. On display: "An Archaeology of CAD: Reconstructing 'Sketchpad' and the 'Coons' Patch."
- 2011 Future New York: Archiprix 2011 Workshop Exhibition at the Solomon R. Guggenheim Museum, 1071 5th Avenue (at 89th Street), New York, NY, Jul 7. On Display: student work from tutored Archiprix Workshop. Co-instructor: Nida Rehman.

- 2011 Future New York: Archiprix 2011 Workshop Exhibition
Center for Architecture, 536 Laguardia Place, Manhattan, NY, Jul 8.
On Display: student work of tutored Archiprix Workshop.
Co-instructor: Nida Rehman
- 2010 MACHINIC PROCESSES: Architecture Biennial Beijing 2010; 798 Space, 798,
Beijing, Oct. 15 - Oct. 20, 2010; curators: Neil Leach, Xu Weiguo; on display:
Tutored student work from scripting workshops in Lima, Peru, and Santiago, Chile.
Co-instructors: Kenfield Griffith and John Snavely
- 2008 Voronoi Pavilion (Universidad Peruana de Ciencias Aplicadas, Lima, Perú, 2008).
Scripted and digitally fabricated studio projects exhibition space. Roles: Workshop
instructor, RhinoScript programmer and design consultant with lead designers
Natalija Bojlsakov and Brian Miller.

Other
contributions

Invited Lectures

Keynotes

- 2017 Universidad del Valle, Cali, Colombia. IV Seminario de la Representación del
Proyecto: Sostenibilidad y Medio Ambiente. "Design at the Interface: Notes on
Computation and Creativity." Nov 8.
- 2017 Humboldt Universitat zu Berlin, Germany. CAx: Dimensions of Computer-Aids in
Architecture, Biological Sciences, Design and Medicine. "Slaves, Partners, Aides:
Imagining Computers in Design and Architecture." Apr 2.
- 2016 Universidad Piloto, Bogotá, Colombia. Digital Reveal Conference. "Builders of the
Vision." Sep 1.

Guest
Lectures

- 2018 Carnegie Mellon University, Department of Philosophy, Seminar on "Automation,
Artificial Intelligence and Society", Prof. Aiden Kestigian, Pittsburgh, PA.
- 2017 Massachusetts Institute of Technology, Department of Architecture Lecture Series.
"Designing the Computational Image, Imagining Computational Design." Nov 11.
- 2017 Carnegie Mellon University, Human Computer Interaction Institute (HCII) Lecture
Series, Pittsburgh PA. "Design at the Interface." Oct 13.
- 2017 Leuphana Universitat, Institute for the Advanced Study of Media Cultures of
Computer Simulation (MECS). Perspective Rules Symposium, Lüneburg, Germany.
"To See is to Play: the Poetics of Machine Learning in Design."
Jan 17.
- 2016 Oberlin College, Department of the History of Art. Seminar on Contemporary
Architecture, Prof. Peter Minosh, Oberlin, OH. "Builders of the Vision."
Nov 17.
- 2016 Technical University of Munich, Munich Center for Technology and Society
Lecture Series, Munich, Germany. "Cybercultures of Design and Architecture:
Cross-disciplinary Origins and Prospects." Jul 4.

- 2016 University of Cambridge, Department of Architecture Lecture Series, Cambridge, UK. "Computing the Architectural Imagination: Postwar Architectural Research at MIT and Cambridge." Jun 1.
- 2016 Leuphana Universitat, Institute for the Advanced Study of Media Cultures of Computer Simulation (MECS), Lüneburg, Germany. "Software and the Imagination of Design: Probes and Prospects." May 10.
- 2016 Institute of Advanced Architecture of Catalunya (IAAC) Lecture Series, Barcelona, Spain. "Computer-Aided Revolutions: Critique of the Future." May 5.
- 2016 University of Cambridge, Department of History and Philosophy of Science (HPS), Cambridge, UK. "Twentieth Century Visions of Design" in 20th Century Think Tank Lunch Time Lectures. Apr 28.
- 2016 The Bartlett School of Architecture, University College London, Mario Carpo's "Digital Turn" Seminar, London, UK. "Builders of the Vision." Mar 16.
- 2015 The Bartlett School of Architecture, University College London. Material Matters Lecture Series, London, UK. "Towards a Material History of Computational Design." May 19.
- 2015 Carnegie Mellon University School of Architecture Candidate talk, Pittsburgh, PA. "Infrastructures of the Imagination: Creative and Critical Inquiry in Computational Design." Mar 3.
- 2014 The Bartlett School of Architecture, University College London. Computational Making Workshop at DCC Conference, London UK. "The Making of an Abstraction." Jun 21.
- 2014 Foster and Partners Friday Lectures. London, UK. "Bits Come to Matter." Jun 20.
- 2013 Massachusetts Institute of Technology, Mobile Experience Lab Lunch Talk. Cambridge, MA. "The Design Ecologies Research group." Nov 25.
- 2013 The Drawing Center, WWWDrawing Symposium, New York, NY. "Design and Computation: Between Accident and Control." May 9.
- 2013 Autodesk Lunchtime Lecture, Waldham, MA. "Building BIM: Seeking a Lingua Franca." Jul 26.
- 2013 LA Design Week PechaKucha, Los Angeles, CA. "De-centering Design." Jun 26.
- 2013 Penn State College of Arts and Architecture Faculty Forum, State College, PA. "Creative work and research." Mar 16.
- 2012 Architectural Association AA Visiting School, Bogotá, Colombia. "Missiles, Symbiosis and the Invention of an Algorithmic Tectonics." Jun 22.

- 2012 University of Massachusetts at Amherst, School of Architecture candidate talk. “Creative Ecologies.” Mar 30.
- 2012 The Pennsylvania State University, Stuckeman School of Architecture and Landscape Architecture candidate talk, State College, PA. “Design and the Technological Imagination.” Mar 19.
- 2012 Université Laval, Ecole d’architecture et d’aménagement candidate talk, Quebec, Canada. “Design et Imagination Technologique.” Mar 15.
- 2012 The State University of New York at Buffalo, Department of Architecture candidate talk. Buffalo NY, US. “Design and the Technological Imagination.” Feb 13.
- 2012 Lancaster University, Lancaster Institute of Contemporary Arts (LICA) candidate talk. Lancaster UK. “Design and the Technological Imagination.” Jan 27.
- 2011 American University of Sharjah, Sharjah, UAE, “Geometry as Data, Data as Material.” Apr 22.
- 2010 Universidad Francisco Marroquin, Ciudad de Guatemala, Guatemala, Department of Architecture Lecture Series, “The Poetics of Automation.” Sep 13.
- 2008 Boston Architectural College class guest. “A Generative Grammar for Fabrication.”
- 2016 Galería Casa Hoffman, Bogotá, Colombia. “Builders of the Vision.” In conversation with Andres Burbano. Sep 3.
- 2016 Chelsea School of Art, University of the Arts, London (UAL). “Builders of the Vision.” In conversation with Betti Marenko. May 5.
- 2018 Carnegie Mellon University, School of Architecture Lecture Series. Introduction to Kyle Steinfeld’s lecture. Apr 9.
- 2014 Penn State, Stuckeman School of Architecture and Landscape Architecture, State College PA, US. Introduction to Achim Menges’ lecture. Feb 6.
- 2013 Massachusetts Institute of Technology, MIT Media Lab. Moderator in panel with Nicholas Negroponte and members of The Architecture Machine Group in the “Futures Past: Design and the Machine” Conference, MIT. Nov 21.
- 2013 Penn State, Stuckeman School of Architecture and Landscape Architecture. Introduction to Mark West lecture. Feb 6.
- 2011 Massachusetts Institute of Technology Department of Architecture. “Science Vs. Storytelling” public conversation as part of the Archiprix competition. May 6.

Book Launch
Events

Other
Speaking
Engagements

Selected Press/Reviews

- 2018 Allen, Matthew. "The Computational Imagination: Review of the Exhibition 'Designing the Computational Image, Imagining Computational Design.'" *Leonardo Journal*, 2018 (forthcoming).
- 2017 Smith, Greg J. "Designing the Computational Image, Imagining Computational Design – An Excavation of Digital Form." *Creative Applications Network*, November 21, 2017.
- 2017 INTER-PUNCT. "In Conversation with Daniel Cardoso Llach." *Interpunct Special Issue: Exhibitions - Intermission*. November 17.
- 2015 Pfaff, Marc. "Daniel Cardoso Llach: Builders of the Vision: Software and the Imagination of Design." *PLANBILDER: Medien Der Architekturgestaltung*, no. 11 (2015): 207–2012.
- 2010 MIT spotlight, "A Better Window: MIT Team Designs a Light-Controlling, Energy-Smart Facade," *Massachusetts Institute of Technology*, January 5, 2010, <http://web.mit.edu/>.

Editorial and Reviewing Roles

Book Series	2017-18	Founder and co-editor of the book series "Routledge Research in Design, Technology and Society." Currently working with eight authors and book projects (1 under production, 3 under contract, and 4 at the proposal stage).
Expert Reviewer	2013-18	MIT Press (2 book proposals and 1 manuscript); Routledge (2 book proposals); Springer (1 book proposal); Einstein Professorship, Berlin 2018; William J. Mitchell Hackathon Jury 2015; Universidad de los Andes Faculty Grants 2013.
Editorial Boards	2017	Dearq Journal.
Journal peer review	2014-17	Dearq Journal 2011, 2016, 2017; IJAC 2014, 2015; Design Studies 2015; FOOTPRINT #15 2014;
Conference peer review	2011-17	ACSA 2017, San Francisco; Re:Trace 2017, Vienna; SIGRADI 2016, Santa Catarina; CAADRIA 2016, Melbourne; SIGGRAPH 2014, Buffalo; ACSA 2013, Fort Lauderdale; Futures Past 2013, Cambridge (MA); ICIE 2013, Athens; SIGRADI 2012, Fortaleza; SIGRADI 2011, Bogotá.
Other conference roles	2010-18	Track Chair DRS 2018; Session chair DHS 2016; Session chair SIMAUD 2014; Conference Co-chair SIGRADI 2010.

Academic Events Organized

- Symposia
- 2017 “Computational Design: Practices, Histories, Infrastructures.” Organizer and chair of two-day symposium at the School of Architecture, Carnegie Mellon University, Oct 6-8, hosted by the STUDIO for Creative Inquiry. Twelve invited speakers, five workshops, over a hundred registered attendants.
- 2015 “Design Across Boundaries.” One-day Symposium and Open House at the Stuckeman Center for Design Computing, The Pennsylvania State University, May 5. Four invited speakers, open house, around one hundred attendees.
- Conference sessions
- 2019 “Computation in the Core: Critical Pedagogies.” Panel at the 2019 ACSA Conference “Black-Box: Articulating Architecture’s Core in the Post-Digital Era,” in collaboration with Matthew Allen. Pittsburgh, PA. Forthcoming 2019.
- 2018 “Architects and Science in the Research University.” Panel at the 2018 History of Science Society conference “Telling the Stories of Science,” in collaboration with Theodora Vardouli. Forthcoming 2018.
- 2018 “Design, Technology and Society” track at the Design Research Society Conference 2018, in collaboration with Terry Knight. Limerick, Ireland. Forthcoming Jun 25-28 2018.
- 2015 “Computing Futures: Three Episodes in the Postwar Imagination of Design.” Session at the Design History Society Conference, California Center for the Arts, San Francisco, Sep 11-13.
- Lectures
- 2013-17 Carnegie Mellon Computational Design (CODE) Lab Lectures: Lining Yao: *Morphing Matter Across Scale, Discipline and Context*, Nov 15, 2017; Daniel Leithinger: *Hold that Thought: Designing Interfaces for Embodied Cognition*. March 5, 2017; Ruari Glynn: *Animating Architecture*. December 8, 2016. Stuckeman Center for Design Computing (Penn State) Lectures: Daniel Rosenberg: *Feeling the Doing: Transforming Experience Through Design*. September 27, 2013; Josh Lobel: *Building Information: Examples of a Hybrid Modeling Approach for Design Development and Construction*. October 18, 2013; Avni Argun: *Electrochromism*. Friday, October 25, 2013; Rick Mistrick: *Modeling of Daylighting*. November 1, 2013.

Grants and Fellowships

- Under Review
- 2018 Department of Energy (DOE) EERE-BENEFIT Program. “An Adaptive, Low-Cost Dynamic Glazing System for Improved Building Energy Performance and Human Comfort.” Role: PI. Collaborators: Omer Karaguzel, Michael Bockstaller, GINER, Inc. Vitro Architectural Glass. \$1’400,000.
- Past
- 2017 Graham Foundation for the Advanced Study in the Fine Arts. Funds to support the exhibition “Designing the Computational Image, Imagining Computational Design.” \$3,500.00.

- 2017 Manufacturing Futures Initiative. “A Manufacturing Technology for Highly Responsive Organic Electrochromic Windows for Energy Efficient Buildings.” \$136,392.00 (not awarded)
- 2017 College of Fine Arts Research and Creativity Fund, Carnegie Mellon University. Funds to support the development of “Soft Reconstructions,” an interactive component of the exhibition “Designing the Computational Image, Imagining Computational Design” at Miller Gallery, CMU. \$4,000.00.
- 2017 Berkman Faculty Development Fund, Carnegie Mellon University. Funds to support the exhibition “Designing the Computational Image, Imagining Computational Design.” \$3,000.00.
- 2017 Isabel Sophia Liceaga Discretionary Fund, Carnegie Mellon University School of Architecture. Funds to support the symposium “Computational Design: Practices, Histories, Infrastructures.” \$2,000.00.
- 2016 Institute for the Advanced Study of Media Cultures of Computer Simulation (MECS), Leuphana Universitat, Lüneburg, Germany. Research Fellowship. Funds to support the “Tracing Design Ecologies” project. \$7,000.
- 2016 Department of Energy (DOE) Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs. “Organic Electrochromic Windows for Energy Efficient Buildings.” \$35,000.00 (not awarded).
- 2014 Collaborative Design Research Grant, Penn State. (As Co-PI with PI Frans Padt and Co-PI Mallika Bose). “Exploring the Role of Science in Green Design Pedagogy.” \$50,000.00. (not awarded)
- 2014 CTSI’s Innovative Approaches to Big Data Pilot Project Funding 2014. (As Co-PI with PI Darla Lindbergh). “Interactive Data Visualization Tools to Support and Transform Client-Centered Dietary Health Decision Making: A Systems Architecture Approach.” \$300,000.00 (not awarded)
- 2013 The H. Campbell and Eleanor R. Stuckeman Fund for Collaborative Design Research, Penn State. Funds in support of the development of a software system for modeling facades of variable transmittance as a step towards low-cost organic electrochromic smart facades. \$34,588.00.
- 2012 DOE SBIR/STTR Programs Phase I Application (As Co-PI with PI Avni Argun). 2012. “Organic electrochromic windows for energy efficient buildings.” \$100,000.00 (not awarded)
- 2009 The MIT Council for the Arts, Massachusetts Institute of Technology. Funds in support of the ‘CROMA’ Project. \$1,000.00.
- 2007 MIT Presidential Fellowship. Awarded full tuition and stipend for doctoral studies.
- 2007 Best SMArchS Thesis Award, Department of Architecture, MIT. \$500.
- 2005 Tuition Support Grant, Department of Architecture, MIT.

- 2005 Special Merit Recognition (stipend support), Department of Architecture, MIT.
- 1996 Andres Bello National Award. Andres Bello Foundation, Colombia.
Granted to the Top scores nationwide on the ICFES (equivalent to the SAT in the US) test. The award included financial aid towards college tuition.

Doctoral Theses

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|------------------------------|--------------------|---|
| Principal Advisor | 2020
(expected) | Ardavan Bidgoli, “Learning Matters: An Approach to Situated Learning in Human-Machine Design” (working title). Carnegie Mellon University School of Architecture, Ph.D in Computational Design. Pittsburgh, US. |
| | 2019
(expected) | Oscar Kang, “Adaptive Solar Control Strategies” (working title). Carnegie Mellon University School of Architecture, Doctor of Professional Practice. Pittsburgh, US. |
| Committee Member or Examiner | 2020
(expected) | Jonathan Weston, “Seeing Beyond the Pretty Picture: Exploring the Aesthetics and Function of Architectural Visualization” (working title). University of Cambridge, Department of Architecture. Cambridge, UK. |
| | 2020
(expected) | Ricardo Correia, “A Transdisciplinary Vision of Digital Architecture Through Computational Methods of Mapping, Analysis and Visualization” (working title). Instituto Universitario de Lisboa (ISCTE-IUL) Departamento de Arquitectura e Urbanismo, Lisboa, Portugal. |
| | 2019
(expected) | Anne Burdick, “Designing Text Technologies for Critical Interpretation” (working title). Carnegie Mellon University, School of Design (DDes). Pittsburgh, US. |
| | 2019
(expected) | Philippa Mothersill, “Communicating Through the Design of Man-Made Artifacts” (working title). Massachusetts Institute of Technology, MIT Media Lab. Cambridge MA, US. |
| | 2019
(expected) | Vernelle Noel, “Computational Approaches to Craft: Exploring Wire-Bending in Trinidad” (working title). Department of Architecture and Landscape Architecture, Penn State. State College, US. |
| | 2016 | Guangxuan Zhang, “Designing a Platform to deal with Conflicts in Organizations: A Design Science Project.” Department of Information Sciences and Technology, Penn State. State College, US. |
| | 2015 | Michael Marcinkoswki, “Data, Design, Dialogue: Hermeneutics of Socio-Technical Design.” Department of Information Sciences and Technology. Penn State. State College, US. |
| | 2014 | Camilo Cifuentes, “Narrativas cibernéticas y arquitectura computacional” (Cybernetic Narratives and Computational Architecture). Escuela Técnica Superior de Arquitectura de Barcelona (ETSAB), Barcelona, Spain. |

Masters Theses

Principal
Advisor

- 2018 Adie Al Nobani, “Alternative Architectural Narratives”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 Javier Argota Sánchez Vaquerizo, “What you See is What you Get: A Data-Informed Workflow in Design for Architecture and Urbanism”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 Camille Baumann-Jaeger, “Exploring How Design Perpetuates Online Harassment in Virtual Reality”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 Cecilia Ferrando, “Automating Spatial Analysis of Architectural Floorplans”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 Yuqian Li, “An Approach to Search Through Architectural Topology”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 Yingxiu Lu, “A New Shape-Finding Process Based on Conversational Genetic Algorithms”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 Atefeh Mahdavi, “Reimagining Urban Intersections Through Participatory Simulation Platforms”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 Rachael Tang, “A Collaborative Online Platform for Geo-Located Data Visualization”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2018 George Zhu, “Make Models Great Again: Interactively Generating Simplified Human-Editable Models from 3-D Scanned Meshes”. Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2017 Scott Donaldson, “Generating, Simulating, Interrogating: A Computational Design Thinking Framework.” Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2017 Hetian Cao, “Designing for Interaction and Insight: Experimental Techniques for Visualizing Building Energy Consumption Data.” Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2017 Lu Han, “A Concurrent Physical and Digital Modeling Environment.” Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.

- 2017 Qiaozhi Wang, "HADEN: Using Virtual Reality as an Expressive Medium for Spatial Design." Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- At Penn State
- 2015 Ardavan Bidgoli. "Towards an Integrated Design-Making Approach in Architectural Robotics." Penn State, Department of Architecture. Master of Science in Architecture: Design Computing. State College PA, US.
- 2015 Vina Rahimian, "Energy Distribution Management in a Network of Intelligent Buildings as a Learning Machine." Penn State Department of Architecture. Master of Science in Architecture. State College PA, US.
- 2014 Seoug Oh, "Typologies of Interaction in Architectural Space." Penn State Department of Architecture. Master of Science in Architecture: Design Computing. State College PA, US.
- Committee Member
- 2018 Manuel Rodríguez Ladrón de Guevara, "Multiresolution." Carnegie Mellon University School of Architecture, Master of Advanced Architectural Design. Pittsburgh, US.
- 2017 Dyani Robarge, "Critical Mass," Carnegie Mellon University School of Architecture, Master of Advanced Architectural Design. Pittsburgh, US.
- 2017 Mike Jeffers, "Design Games and Machine Learning: A Method for the Application of Machine Learning in Design Environments." Carnegie Mellon University School of Architecture, Master of Science in Computational Design. Pittsburgh, US.
- 2016 Martin West, "Can Architecture Ascribe the Human Condition?" Cambridge University Department of Architecture. MPhil. Cambridge, UK.
- 2014 Savia Palate. "Visualizing Famagusta's Coastline: Co-existence in a contested ghost-city." Penn State Department of Architecture. Master of Architecture: Culture, Space, and Society. State College PA, US.
- 2012 Prince C. Kwabi "Does the Management of BIM Implementation of a Project's Design Phase Require a Specialist?." Salford Institute of Technology, Manchester, UK.

Undergraduate Theses

- 2016 Andrew Viny, "[YOURS]: Distributing Agency in Design Through Computation." Carnegie Mellon University School of Architecture. Bachelor of Architecture.
- 2016 Avanti Dabholkar, "Towards Emotive Architecture." Carnegie Mellon University School of Architecture. Bachelor of Architecture.
- 2015 Dustin Julius, "Complexity." Penn State School of Architecture and Landscape Architecture.

Courses Taught

Assistant Professor CMU	Spring 2018	MSCD Pre-Thesis I (48-715), Special Topics in Computational Design: Critical Technologies (48-749), Fundamentals of Computational Design (62-275).
	Fall 2017	Pre-Thesis II (48-716), Inquiry into Computational Design (48-727).
	Spring 2017	MSCD Pre-Thesis I (48-716), Fundamentals of Computational Design (62-275).
	Fall 2016	Pre-Thesis II (48-716), Inquiry into Computational Design (48-727).
	Fall 2015	Fundamentals of Computational Design (62-275), Undergraduate Thesis Studio (48-519).
Assistant Professor PSU	2013-2015	<i>Graduate</i> : ARCH 497C “Algorithmic Tectonics” (Spr 14, 15); ARCH 497B “Inquiry into Design Computing” (Fall 13, 14); ARCH 537A “Technology and the Imagination of Design” (Spr 14). <i>Undergraduate</i> : ARCH 231 Architectural Design I (2 nd Year Studio: Spr 13, 14, 15); ARCH 232 Architectural Design II (2 nd Year Studio: Fall 12, 13, 14).
Teaching Assistant MIT	2009-2011	<i>Graduate</i> : “Design Without Boundaries” (Fall 09, Spr 10 with Profs. William J. Mitchell and Federico Casalegno); “Design Scripting” (Spr 10 with Prof. Takehiko Nagakura); “Ph.D. Forum” (Spr 10, 12) and “Inquiry into Computation and Design” (Fall 08-10) with Prof. Terry W. Knight).
Instructor Universidad de los Andes	2002-2005	<i>Undergraduate</i> : “Fundamentals of Digital Media” (Spr 04, 05); “Third Year Design Studio” (Spr 05); “First Year Design Studio” (Spr, Fall 02-04).

International Workshops

As Tutor	2018	Bauhaus Universität, Weimar, Germany. “Computational Design: History and Future Perspectives” lecture and one-day teaching session. Forthcoming, Fall 2018.
	2017	Universidad del Valle, Cali, Colombia. “Algorithmic Objects” three-day workshop. Nov 8-10.
	2016	University of Brighton, Brighton, UK. “Visualising Design Ecologies” at the Design Research Society (DRS) Conference, 2016. Jun 17. Co-instructor: Yanni Loukissas.
	2014	University College London, London UK. “Computational Making” at the 14 Design Computing and Cognition Conference (DCC ’14), Jun 21. Co-organizers: Terry Knight, George Stiny, Theodora Vardouli, Dina El-Zafaly.
	2013	The Pennsylvania State University, University Park, PA, US. May 4. “Gestural Modeling and Interactive Architecture.”

- 2011 Massachusetts Institute of Technology, Cambridge, MA, US. “International Architectural Design Workshop” at the ARCHIPRIX 2011 Competition. Co-instructor: Nida Rehman.
- 2011 American University of Sharjah, Sharjah, UAE. “Geometry as Data, Data as Material.” Co-instructors: Santino Medina and Maher El-Khaldi.
- 2010 Universidad Francisco Marroquín, Ciudad de Guatemala, Guatemala. Scripting for design exploration workshop.
- 2010 ORG Architects, Cambridge, MA, US. Scripting for design exploration workshop.
- 2010 Cornell University School of Architecture, Ithaca, NY, US. Scripting for design exploration workshop. Co-instructors: Kenfield Griffith and Yanni Loukissas.
- 2009 Harvard University Graduate School of Design, Cambridge, MA, US. Scripting for design exploration workshop. Co-instructors: Kenfield Griffith and Taro Narahara.
- 2009 Lynden High-School, Lynden, WA, US. “All Hands on Deck” workshop on basic computational geometry. With support from McNeel and Associates. Co-instructor: Kenfield Griffith.
- 2009 Universidad de los Andes, Bogotá, Colombia. Scripting for design exploration workshop. With support from McNeel and Associates. Co-instructor: Skylar Tibbits.
- 2008 Universidad Peruana de Ciencias Aplicadas, Lima, Perú. “Computational Design Solutions” scripting workshop. Co-instructors: Kenfield Griffith and John Snaveley.
- 2006 Universidad de Chile, Santiago de Chile, Chile. “Computational Design Solutions” scripting workshop in SIGRADI conference. Co-instructors Kenfield Griffith and John Snaveley.
- As Organizer
- 2017 “Introduction to Mathematical Form-Making.” Instructor: Joseph Choma, in “Computational Design: Practices, Histories, Infrastructures” symposium, Carnegie Mellon University, School of Architecture. Oct 8.
- 2017 “Re-imagining Urban Intersections Through Systems Thinking.” Instructors: Scott Donaldson and Atefeh Mahdavi, in “Computational Design: Practices, Histories, Infrastructures” symposium. Carnegie Mellon University, School of Architecture. Oct 8.
- 2017 “Build a Miniature CNC from E-waste.” Instructor: Jonah Ross-Mars; in “Computational Design: Practices, Histories, Infrastructures” symposium. Carnegie Mellon University, School of Architecture. Oct 8.
- 2017 “Meta-Tool: Seeing Spaces.” Instructor: Dan Taeyoung; in “Computational Design: Practices, Histories, Infrastructures” symposium. Carnegie Mellon University, School of Architecture. Oct 8.

- 2017 “Cutting-edge Nostalgia: Rhino-Controlled Vintage Pen Plotters.” Instructor: Carl Lostritto; in “Computational Design: Practices, Histories, Infrastructures” symposium. Carnegie Mellon University, School of Architecture. Oct 8.
- 2013 “Feeling the Doing: Transforming Experience Through Design.” Instructor: Daniel Rosenberg. Penn State Department of Architecture. Sep 27.

Invited Reviews

- 2018 University of Charlotte at North Carolina, Charlotte, Georgia, US. Final Review for Thesis Studio, invited by Dimitris Papanikolaou, Apr 30.
- 2018 McGill University School of Architecture, Montreal, Canada. Final Review for the “Counterfactual History Studio” invited by Theodora Vardouli, Apr 23.
- 2018 Rice University, School of Architecture, Houston TX, US. Final Review for 1st and 2nd Year Design Studio invited by Sarah Whiting, Andrew Colopy, and Gail Chen, Apr 17-18.
- 2016 Institute for Advanced Architecture of Catalunya (IAAC), Barcelona, Spain. “Urban Workshop” Studio Midterm review invited by Tomas Diez. Mar 4.
- 2015 The Pennsylvania State University, Department of Architecture, State College PA, US. 2nd Year Architecture Studio invited by Felecia Davis. Dec 10.
- 2014 The Pennsylvania State University, Department of Architecture, State College PA, US. LARCH 312 and graduate LARCH 540 capstone design studio invited by Maria and Chris Counts, May 2.
- 2013 Harvard University Graduate School of Design, Cambridge MA, US. Final review for “The Mixed Reality City” course invited by Yanni Loukissas, Nov 22.
- 2013 The Pennsylvania State University, Department of Architecture, State College PA, US. Midterm review of 3rd Year Architecture Studio invited by Lisa Iulo.
- 2013 The Pennsylvania State University, Department of Architecture, State College PA, US. Midterm Review of 1st Year Architecture Studio invited by Nida Rehman.
- 2012 Wentworth Institute of Technology Department of Architecture, Boston MA, US. Final Review of Architecture Thesis Studio invited by Zenovia Touloudi. Dec.
- 2011 American University of Sharjah Department of Architecture, Sharjah, UAE. Midterm Design Studio Reviews invited by Ginger and Michael Dossier. Oct.
- 2010 Massachusetts Institute of Technology, Cambridge MA, US. Midterm Review of 1st Year M.Arch Projects invited by Meijin Yoon.
- 2010 Wentworth Institute of Technology, Boston MA, US. 1st Year Architecture Representation Final Review invited by Carlos Cardenas.

- 2010 Pratt Institute, New York, NY. Invited by Kyle Steinfeld as a guest critic for the final review of the Summer Architecture Studio. Summer.
- 2009 Wentworth Institute of Technology, Boston MA, US. Final review of drawing and visualization course, invited by Carlos Cardenas. Spring.
- 2009 Cornell University, Ithaca, NY. Final review of Second Year Studio, invited by Yanni Loukissas. Fall.
- 2008 Wentworth Institute of Technology, Boston MA. US. Final review of Fourth Year Architecture Studio, invited by Peter Minosh. Fall.
- 2008 Massachusetts Institute of Technology, Boston MA, US. Final review of First Year Architecture Studio, invited by Andres Sevtsuk. Spring.
- 2007 Boston Architectural College, Boston MA, US. Final review of Thesis Projects, invited by Marcel Botha. Spring.
- 2018 School of Design, "Senior Studio: Service Design," invited by Molly Wright-Steenson, May 7.
- 2018 School of Architecture, "Back2Front discussions," invited by Mary-Lou Arscott, Apr 4.
- 2017 School of Design, invited by Terry Irwin as guest critic to the Doctor of Design (DDes) first year review. Mar 9-11.
- 2017 School of Architecture, "Grow Collective" 2nd Year Design Studio, invited by Josh Bard. Dec 6.
- 2017 School of Architecture, "THESIS IP" studio final review, invited by Mary-Lou Arscott. Dec 6.
- 2017 School of Architecture, "THESIS IP" studio mid review, invited by Mary-Lou Arscott. Oct 27.
- 2017 School of Architecture, B.Arch thesis studio, invited by Mary-Lou Arscott. Feb 24.
- 2016 School of Design, "Interaction Design Studio" final review, invited by Austin Lee. Dec 14.
- 2016 School of Art, Physical Computing class review, invited by Ali Momeni. Nov 10.
- 2015 School of Art, Physical Computing class review. Invited by Ali Momeni, Dec 16.
- 2015 School of Architecture, Emergent Media Proseminar final review, invited by Daragh Byrne. Dec 12.
- 2015 School of Architecture, 3rd Year Architecture Design Studio midterm review, invited by Dana Cupkova. Oct 16.
- 2015 School of Architecture, invited by Mary-Lou Arscott as guest critic for thesis final reviews. April 2015.

At CMU

Other Praxes

Architecture and design work	2001-2011	Architectural consultant and embedded researcher Gehry Technologies, Abu Dhabi 2010-2011; UI/UX designer THE MEME, Cambridge MA 2009-2010; Computational Design Specialist Kohn Pedersen Fox, New York 2007; Project Consultant ORG Somerville, MA 2010; Independent practice Bogotá, Colombia 2001-05.
Selected Multimedia/web work	2005-	The Observatory of Bogotá 2005; Campus 2004 (with María Mendez); Webarq 2004 (with Carlos Cárdenas, Hernán Velásquez, and María Mendez).
Art/Editorial contributions	2005-	Geometric models, illustrations and photography of an example of Guastavino (Catalan) vaulting for the book: John Ochsendorf et al., <i>Guastavino Vaulting: The Art of Structural Tile</i> , 1st edition (Princeton Architectural Press, 2010). Art direction and illustration for the book: William J. Mitchell and Federico Casalegno, <i>Connected Sustainable Cities, Connected Urban Development</i> (MIT Mobile Experience Lab Publishing, 2008). Maps for the book: Marcelo Bucheli, <i>Bananas and Business: The United Fruit Company in Colombia, 1899-2000</i> (NYU Press, 2005).
Memberships	2002-	Wilton E. Scott Institute for Energy Innovation at CMU, since 2016; SCS (Society for Modeling & Simulation International), since 2013; 4S: Society for the Social Studies of Science, since 2010; SCA (Colombian Society of Architects) since 2002.
Licensure	2002-	Registered architect in Colombia since 2002.
Op-eds (in Spanish)		Daniel Cardoso Llach, Alejandro Morales, and Carlos Mendivil, “Apostarle a la esperanza,” <i>El Planeta</i> , June 18, 2010, sec. Opinión. Daniel Cardoso Llach, “Mockus, El Déspota,” <i>Días de Verde</i> , 2010. Daniel Cardoso Llach, Alejandro Morales, and Carlos Mendivil, “La Esperanza Es Verde,” <i>Siglo21</i> , June 2010, sec. Opinión.
Languages		English (proficient), Spanish (native), French (basic).
Other interests		An occasional musician, I have recorded and performed live with different music projects including Altiplano, C. Kubli, and Juan Lanás.