

JOSHUA VERMILLION

Curriculum Vitae

Associate Professor | School of Architecture | University of Nevada, Las Vegas
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EDUCATION

2005	M ARCH, (post-professional), Department of Architecture, Ball State University
2002	B ARCH, Department of Architecture, Ball State University
2002	BS Environmental Design, Department of Architecture, Ball State University

PROFESSIONAL APPOINTMENTS + EMPLOYMENT

	University of Nevada, Las Vegas, School of Architecture
2019-present	Associate Professor of Architecture
2019-present	Assistant Director, School of Architecture
2018-present	Graduate Coordinator, School of Architecture
2013-2019	Assistant Professor of Architecture
	Ball State University, Department of Architecture
2011-13	Assistant Professor of Architecture
2006-13	Operations Manager + Fellow, Institute for Digital Fabrication
2004-11	Instructor of Architecture
Spring 2005	Graduate Assistant, Digital Fabrication Lab Manager and Technician
Fall 2004	Teaching Assistant, Department of Architecture
2003-04	Graduate Assistant, University Teleplex Unit
Summer 2003	Graduate Assistant, Department of Architecture
2002-03	Teaching Assistant, Department of Architecture
2003	Paul I. Cripe, Inc., Indianapolis, IN. Intern Architect
2002	Hand Hewn Design and Construction, Muncie, IN. Intern Architect
2001	NBBJ, Columbus, OH. Junior Associate

PROFESSIONAL MEMBERSHIPS

2005-present	Association of Computer Aided Design in Architecture (ACADIA)
2004-present	Association of Collegiate Schools of Architecture (ACSA)
2014-present	Iberoamerican Society of Digital Graphics (SIGRAD)
2012-13	Education and Research in Computer Aided Architectural Design in Europe (eCAADe)

PUBLICATIONS

BOOKS

- Forthcoming (2020) Golden, Elizabeth and Joshua Vermillion (eds). *Bottom-up Social Change: Proceedings of the 2019 Intersections Symposium*. American Institute of Architects (AIA) and the Association of Collegiate Schools of Architecture (ACSA).
- 2016 Johnson, Jason S. and Joshua Vermillion (eds). *Digital Design Exercises for Beginning Architecture Students*. New York: Routledge.

PEER-REVIEWED JOURNAL PUBLICATIONS

- 2006 Klinger, Kevin R.; Joshua Vermillion. "Visualizing the Operative and Analytic: Representing the Digital Fabrication Feedback Loop and Managing the Digital Exchange". *International Journal of Architectural Computing*, vol. 4 - no. 3, pp. 79-97.

BOOK CHAPTERS

- Forthcoming (2020) De Salvatierra, Alberto; Samantha Solano; Joshua Vermillion. "Pedagogical Pluralism". In Samantha Krukowski (ed), *Theories and Tactics in Architecture and Design*. London: Intellect Books.

PEER-REVIEWED PAPERS IN CONFERENCE PROCEEDINGS

- Forthcoming (2019) Vermillion, Joshua and Alberto de Salvatierra. "Physical Computing, Prototyping, and Participatory Pedagogies: Make-A-Thon as Interdisciplinary Catalyst for Bottom-Up Social Change". *Proceedings of the 2019 eCAADe + SIGraDi Conference: Architecture in the Age of the 4th Industrial Revolution*. Faculty of Architecture, University of Porto, Porto, Portugal, 12 September.
- 2019 Solano, Samantha; Alberto de Salvatierra; Joshua Vermillion. "Constructing Site: Contextual and Temporal Notations of Landscape". *2019 Proceedings of the National Conference on the Beginning Design Student*. University of Colorado Denver, 15 March.
- 2018 Vermillion, Joshua. "Repercussions of Robotics in Architecture". *Convegno Internazionale Robotica e Intelligenza Artificiale: l'impatto dell'infosfera sulla vita dell'uomo (Proceedings of the International Conference on Robotics and Artificial Intelligence: The Impact of the Infosphere on Human Life)*. Aula Magna, Univeresita per Stranieri di Perugia, Perugia, Italy, 14 March, pp. 135-144.
- 2018 De Salvatierra, Alberto; Samantha Solano; Joshua Vermillion. "The Spatial Indeterminacy of Time: De[MONSTR]ative Architectures as Beginning Design Pedagogy". *2018 Proceedings of the National Conference on the Beginning Design Student*. University of Cincinnati, 3 March.
- 2017 Vermillion, Joshua; Shai Yeshayahu; Samantha Solano. "CNC Mediated Representation". *2017 Proceedings of the National Conference on the Beginning Design Student*. University of Utah, Salt Lake City, 9-11 March.
- 2016 Yeshayahu, Shai; Joshua Vermillion; Jonathon Anderson. "Agency for Informed Design and Analysis: Time-based Media as 1:1 >> 1:many". *2016 Proceedings of the National Conference on the Beginning Design Student*. California Polytechnic State University, San Luis Obispo, 26-27 February.
- 2015 Yeshayahu, Shai; Joshua Vermillion; Jonathon Anderson. "Documenting Design Processes through Video and Creative Marketing". *2015 Proceedings of the National Conference on the Beginning Design Student*. University of Houston, Houston, TX, 26-28 February.
- 2014 Vermillion, Joshua. "Physical Computing without Computing: Small Responsive Prototypes". *2014 SIGRADI Conference Proceedings*. Universidad de la República, Montevideo, Uruguay, 12-14 November.
- 2014 Vermillion, Joshua. "Integrating Physical Computing with Making". *2014 ACSA Fall Conference Proceedings: Working Out, Thinking While Building*. Dalhousie University, Halifax, Nova Scotia, 16-18 October.
- 2014 Vermillion, Joshua; Jonathon Anderson; Dave Rowe. "Craft-based Education: A Model that Supports Play and Innovation". *2014 National Conference on the Beginning Design Student Proceedings*. Illinois Institute of Technology, Chicago, IL, 3-5 April.

- 2012 Angulo, Antonieta; Joshua Vermillion. "Strategic Thinking on the Redesign of a Foundational CAAD Course: Towards comprehensive training on digital design", *Digital Physicality: Proceedings of the 30th eCAADe Conference - Volume 1*. Czech Technical University, Prague, Faculty of Architecture (Czech Republic), 12-14 September, pp. 29-37.
- 2012 Angulo, Antonieta; Joshua Vermillion. "A Leap Towards a Comprehensive Training in Parametric Thinking", *Design Communication Association 2012 Conference Proceedings*. Oklahoma State University, Stillwater, Oklahoma, 21-24 October.
- 2009 Daas, Mahesh; Joshua Vermillion. "An Inconvenient Studio", *ACADIA 09: reform: Building a Better Tomorrow - Proceedings of the 29th Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA)*. Chicago, Illinois, 22-25 October, pp. 287-290.
- 2009 Sweitzer, Glenn; Joshua Vermillion. "Distance Daylighting and Digital Fabrication", *Leadership in Architectural Research, Between Academia and the Profession: Proceedings of the 2009 Annual Research Conference of the Architectural Research Centers Consortium (ARCC)*. San Antonio, Texas, 15-18 April, pp. 257-264.
- 2008 Vermillion, Joshua; Kevin Klinger; Brian Pace. "Managing the Design-Fabrication Feedback Loop: Visualizing Collaborative Digital Exchanges between Industry and the Academy", *Proceedings of the joint CIB W096 Architectural Management and CIB TG49 Architectural Engineering Conference*. Sao Paulo, Brazil, November, pp. 253-266.
- 2008 Gibson, Michael; Kevin Klinger; Joshua Vermillion. "Constructing Information: Towards a Feedback Ecology in Digital Design and Fabrication", *Silicon + Skin: Biological Processes and Computation – Proceedings of the 28th Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA)*. Minneapolis, Minnesota, 16-19 October, pp. 182-191.
- 2007 Sweitzer, Glenn; Joshua Vermillion. "Enhanced Daylighting through Digital Fabrication". *Thermal Performance of the Exterior Envelopes of Whole Buildings X International Conference Proceedings*, Oak Ridge National Laboratory and ASHRAE. Clearwater, Florida, US, December.
- 2005 Klinger, Kevin R.; Joshua Vermillion. "Visualizing Revisions: Representation Implications of Digital Fabrication". *SIGraDi 2005 - Proceedings of the 9th Iberoamerican Congress of Digital Graphics*. Lima, Peru, 21-24 November, vol. 1, pp. 194-200.

GRANTS + FUNDING

- 2016-18 Social Sciences and Humanities Research Council of Canada (SSHRC). Jason Johnson (PI), Joshua Vermillion (Collaborator), Alvin Huang (Collaborator), Simon Kim (Collaborator), Maria Ibanez (Collaborator), Joshua Taron (Collaborator). "Constructing Digital Futures: Community Based Innovation" (\$443,000).
- 2016 Shai Yeshayahu (PI), Joshua Vermillion + Samantha Solano (co-PIs); "UNLV Artist in Residency Express Grant - Hadrian Predock" (\$1500), Nevada Arts Council. October 2016 – October 2017.
- 2014 Contract. Joshua Vermillion (PI) and Ken McCown (co-PI). "EDAR (Everyone Deserves A Roof Prototyping)" (\$10,000). EDAR (an external non-profit organization).
- 2014 Contract. Joshua Vermillion (PI) and Ken McCown (co-PI). "EDAR (Everyone Deserves A Roof Design and Prototyping)" (\$2,500). EDAR (an external non-profit organization).
- 2014 Subcontracted for material and fabrication consultation. Ken McCown and Phil Zawarus (PIs). "Urban Trail Redesign + Fabrication" (\$37,000). Outside Las Vegas Foundation through Wells Fargo Urban LIFT.
- 2012 Emerging Media Innovation Grant, Ball State University. Principal Investigator. "Integrating Semi-Autonomous Humanoid Robots in Building Construction" (\$5,000 stipend).
- 2011 Emerging Media Innovation Grant, Ball State University. Principal Investigator. "Growing a Distributed Network of Workshops and Applied Research in Digital Design + Fabrication" (\$8,474).
- 2010-12 Discovery Award, Discovery Foundation, Ball State University. Co-Principal Investigator. "Smart Stone: Re-using Waste in Industry", w/ Kevin Klinger (\$24,200).
- 2007 Graham Foundation for Advanced Studies in the Fine Arts. Co-Principal Investigator. "SmartScrap: Digitally Cataloging Building Industry Waste for Reuse through Parametric Modeling", w/ Kevin Klinger (\$9,461).

- 2006 Accessing Technology Across Indiana + the Indiana Innovation Network. Co-Principal Investigator. "Digital Fabrication: Focus on Indiana", w/ Kevin Klinger (\$2,900).
- 2002 I-Communications Grant, Ball State University. Principal Investigator. (\$6,000).

AWARDS + HONORS

- 2019 Inducted as new member of Phi Kappa Phi National Honor Society, Chapter 100.
- 2017 Jane + Robert Fielden Medal for Contributions of Excellence to Architectural Education, UNLV School of Architecture.
- 2015 Citation: Architect Magazine R+D Awards. "Co-Robotics and Construction: OSCR 1-4 Prototypes." Mike Silver, Mahesh Daas, and Joshua Vermillion led the teams for the first two phases/prototypes awarded.
- 2015 Fourth Place Finalist: Strong Cities Strong Communities (SC2) Competition. "Every Neighborhood Needs and Architect." Mark Roddy, Joshua Vermillion, Kevin Kellog, Patrick Roddy, Caren Roddy, Adam Bradshaw, Andrew Martin, Sean Miller, Christina Giapaglione.
- 2014 Mayor's Urban Design Award, City of Las Vegas. "Cedar Trail Project." Ken McCown, Phil Zawarus, Jonathon Anderson, Joshua Vermillion, Eric Weber.
- 2014 ASLA Nevada Honor Award for Trails, "Cedar Trail Project." Ken McCown, Phil Zawarus, Jonathon Anderson, Joshua Vermillion, Eric Weber.
- 2014 Visiting Taylor Seminar Lecturer. University of Calgary, 17-21 February.
- 2011 Finalist: ACADIA and FLATCUT_ 2011 Design + Fabrication Competition.
- 2005 Best Published Conference Paper Award: 2005 SIGRADI conference, Lima, Peru. (with Kevin Klinger).
- 2004 ACADIA Fabrication Conference Travel Scholarship.
- 2003 Outstanding Service Citation: Department of Architecture, Ball State University.
- 2003 Indiana Architecture Foundation Scholarship

INVITED SPEAKING, JURIES + WORKSHOPS

- 2018 Invited Speaker: "Repercussions of Robotics in Architecture". The International Conference on Robotics and Artificial Intelligence, The Aula Magna, University for Foreigners of Perugia, Perugia, Italy, 14 March.
- 2018 Keynote Speaker: "Craft in the Digital Age". Taylor X Symposium: 10 Years of Design Research + Research as Practice, St Louis Hotel, Faculty of Environmental Design, University of Calgary, 22 February.
- 2018 Panel Speaker: Vermillion, J. D., Claiborne, R., Fornes, M., Huang, A., Ibanez, M., Kudless, A., & Taron, J. (February 23, 2018). Design Research to Research Practice. Panel, Participant – presented at the Taylor X Symposium, Calgary, AB, Canada.
- 2017 Invited Talk: "Parametric Design Tools in the Building Industry". Construction Specifications Institute, Las Vegas, 12 September.
- 2017 Invited Talk: "Parametric Design with Rhino and Grasshopper". Innova Technologies, Las Vegas, 20 June.
- 2014 Public Lecture: "MAKE". Part of the Faculty of Environmental Design "Design Matters" Lecture Series, University of Calgary, 19 February.
- 2013 Invited Talk: "Digital Design + Fabrication Feedback Loop". College of Architecture and Design, Lawrence Technological University, 9 April.
- 2013 Invited Talk: "Digital Fabrication Research + Teaching". College of Architecture and Environmental Design, Kent State University, 19 March.
- 2013 Online Guest Juror: Graduate Seminar. Faculty of Environmental Design, University of Calgary, 12 February.

- 2013 Invited Talk: "Digital Fabrication + Immersive Learning". School of Architecture and Interior Design, University of Cincinnati, 6 February.
- 2012 Invited Guest Juror: Graduate Comprehensive Design Studios. School of Architecture and Interior Design, University of Cincinnati, 31 May.
- 2012 Invited Guest Juror: Undergraduate Installation Design-Build Studios. Knowlton School of Architecture, Ohio State University, 30 May.
- 2010 Invited Workshop: Parametric Design + Physical Computing. Faculty of Environmental Design, University of Calgary, 24-28 January.
- 2008 Invited Workshop: Rhino Scripting. School of Architecture (with Kevin Klinger), Southern Illinois University, 9-11 September.
- 2008 Invited Workshop: Digital Design to Production (with Kevin Klinger). Universidad Anahuac, Mexico City, June.
- 2007 Invited Workshop: Generative Design Charrette (with Charles Hinshaw, William Marquez, Shai Yeshayahu). A2SO4 Design, Indianapolis, IN, September.
- 2007 Invited Workshop: Design + Fabrication. College of Design, University of Kentucky, March.
- 2006 Invited Workshop: Computational Design. A2SO4 Design, Indianapolis, IN, December.

CONFERENCE ACTIVITIES, PRESENTATIONS + WORKSHOPS

CHAired SYMPOSIA

- 2019 2019 AIA/ACSA Intersections Symposium, A'19 AIA National Conference on Architecture, 8 June. Co-chairs: Elizabeth Golden, University of Washington and Joshua Vermillion, University of Nevada Las Vegas.

PAPER PRESENTATIONS

- Forthcoming (2019) "Physical Computing, Prototyping, and Participatory Pedagogies: Make-A-Thon as Interdisciplinary Catalyst for Bottom-Up Social Change". 2019 eCAADe + SIGraDi Conference: Architecture in the Age of the 4th Industrial Revolution, Faculty of Architecture, University of Porto, Porto, Portugal, 12 September.
- 2019 "Constructing Site: Contextual and Temporal Notations of Landscape". 2019 National Conference on the Beginning Design Student. University of Colorado Denver, 15 March.
- 2018 "The Spatial Indeterminacy of Time: De[MONSTR]ative Architectures as Beginning Design Pedagogy". 2018 National Conference on the Beginning Design Student. University of Cincinnati, 3 March.
- 2017 "CNC Mediated Representation". 2017 Proceedings of the National Conference on the Beginning Design Student. University of Utah, Salt Lake City, 9-11 March.
- 2016 "Agency for Informed Design and Analysis: Time-based Media as 1:1 >> 1:many", 2016 National Conference on the Beginning Design Student. California Polytechnic State University, San Luis Obispo, 26-27 February.
- 2015 "Documenting Design Processes through Video and Creative Marketing", 2015 National Conference on the Beginning Design Student. University of Houston, Houston, TX, 26-28 February.
- 2014 "Physical Computing without Computing: Small Responsive Prototypes", 2014 SIGRAADI Conference. Universidad de la República, Montevideo, Uruguay, 12-14 November.
- 2014 "Integrating Physical Computing with Making", 2014 ACSA Fall Conference: Working Out, Thinking While Building. Dalhousie University, Halifax, Nova Scotia, 16-18 October.
- 2012 "Strategic Thinking on the Redesign of a Foundational CAAD Course: Towards comprehensive training on digital design", eCAADe Conference, Czech Technical University, Prague, 12-14 September.
- 2010 "Gallery Talk with ACADIA Exhibition Participants". Public Roundtable Discussion, Great Hall, Cooper Union, New York, 23 October.

- 2009 "An Inconvenient Studio", ACADIA 09 Conference, School of the Art Institute of Chicago, Chicago, Illinois, 22-25 October.
- 2009 "Distance Daylighting and Digital Fabrication", ARCC 2009 Conference, University of Texas at San Antonio, San Antonio, Texas, 15-18 April.
- 2008 "Managing the Design-Fabrication Feedback Loop: Visualizing Collaborative Digital Exchanges between Industry and the Academy", Design Management in the Architectural Engineering and Construction Conference, University of Sao Paulo, Brazil, 4-8 November.
- 2008 "Constructing Information: Towards a Feedback Ecology in Digital Design and Fabrication", 2008 ACADIA Conference - Silicon + Skin: Biological Processes and Computation, University of Minnesota, Minneapolis, Minnesota, 16-19 October.
- 2007 "Enhanced Daylighting through Digital Fabrication". Thermal Performance of the Exterior Envelopes of Whole Buildings X International Conference, Clearwater, Florida, US, 2-7 December.

SESSIONS MODERATED

- 2017 Moderator. Paper Session, National Conference on the Beginning Design Student, University of Utah, 11 March.
- 2015 Moderator. Technologies / Futures Session, National Conference on the Beginning Design Student, University of Houston, 27 February.
- 2007 Session 1.4 with speakers Marta Male-Aleman, Jose Pedro Sousa, Mark Goulthorpe. Manufacturing Material Effects Symposium, Indianapolis Museum of Art, 6-7 April.

WORKSHOPS ATTENDED

- 2008 Building an Emergent Urbanscape Workshop. Instructors: Keith Besserud, Josh Cotton (SOM Chicago) and Douglas Pancoast (School of the Art Institute of Chicago). University of Minnesota, Minneapolis, MN, 13-14 October.
- 2007 Smart Geometry Workshop. Instructors: Axel Killian (MIT), Stylianos Dritsas (KPF London), Andrew Kudless (CCA), Xavier DeKestelier (Foster + Partners). New York, NY, 26-29 January.
- 2006 Bentley Generative Components Workshop. Instructors: Steve Sanderson (SHoP), Rob Woodbury (Simon Frazer). Louisville, KY, 12-13 October.

CAMPUS TALKS + PRESENTATIONS

- 2016 "The Digital Craftsperson". Graduate Research Methods Course, UNLV School of Architecture, 26 October.
- 2016 "Complex Architectures". Slide Slam, UNLV School of Architecture, 17 February.
- 2015 "Robots and Sensing Architecture". Marjorie Barrick Museum, as part of "Reflecting and Projection: Twenty Years of Design Excellence". University of Nevada Las Vegas, 28 January.
- 2012 "Emerging Design Technologies". DesignWorks High School Summer Design Program, College of Architecture and Planning, Ball State University, 26 June.
- 2010 "Smart Scrap". Emerging Media Faculty Symposium, Ball State University, 8 April.
- 2010 "How I Learned to Stop Worrying and Love Geometry". CAP Faculty Symposium 2010, Ball State University, 31 March.
- 2009 "Managing the Design-Fabrication Feedback Loop: Visualizing Collaborative Digital Exchanges between Industry and the Academy". Emerging Media Faculty Symposium, Ball State University, 8 April.
- 2008 "Designer as Toolmaker: Crafting the Information between Designers, Makers + Machines". CAP Faculty Symposium 2008, Ball State University, 2 April.
- 2006 "I-MADE: Latest work from the Institute for Digital Fabrication". Philanthropy Advisory Council Meeting, Lunch Keynote, Ball State University.

DESIGN EXHIBITIONS

- 2018 Joshua Vermillion, Alberto deSalvatierra, Samanth Solano (October 2018). "GLEEcerin: Notational Models." Exhibited in the Schroder Galleria, Milwaukee Art Museum at the "PLAY with the Rules: The Portmanteau" peer-reviewed exhibition as part of the ACSA 2018 Fall Conference.
- 2018 Joshua Vermillion (October 2018). Documentation videos of multiple projects ("Small Parts, Complex Effects," Arcus Animus," Morpholuminescence," and "Twist") invited and shown at the Design Computing 2018 Exhibition at the Faculty of Architecture and Molab, Czech Technical University, Prague. Curated by Henri Achten, Milos Florian, and Dana Motejovska.
- 2014 "Simple Parts, Complex Effects", Kasian Gallery, Calgary, Alberta, 10 February-7 March. Invited exhibition.
- 2010 "LIFE in:formation, On Responsive Information and Variations in Architecture", Seigel Gallery, Pratt Institute, Brooklyn, NY, October-November. Peer-reviewed exhibition.
- 2009 "SPOT ON SCHOOLS Exhibition", Beyond Media Festival for Architecture and Media, Florence, Italy, 9-17 July. Invited exhibition.
- 2007 "Systemic Formats Exhibition", Cultural Department of the Catalan Architects Association in Barcelona (COAC), Barcelona, Spain, October-November. Invited exhibition.
- 2006 "Future Tense Exhibition", Harrison Gallery, Indianapolis, September. Peer-reviewed exhibition.
- 2004 "Digital Tools + Analog Methods Exhibition", ACSA National Meeting, Miami Beach, FL, March. Peer-reviewed exhibition.

TEACHING EXPERIENCE

2013-present

COURSES TAUGHT AT UNIVERSITY OF NEVADA LAS VEGAS

AAE 771L Graduate Architectural Design Studio
AAE 772L Graduate Architectural Design Studio
AAE 495/795 Advanced Computational Architecture
AAD 267 Introduction to Digital Media
AAD 367 Advanced Digital Media
AAE 380 Architectural Design I
AAE 280 Design Foundation II
AAE 282 Design Foundation III
AAE 180 Design Foundation I

GRADUATE ADVISING AT UNIVERSITY OF NEVADA LAS VEGAS

- 2018 Master of Architecture Thesis Committee Member. Asawari Pawar, "Human Thermal Comfort in the Transition Spaces"
- 2018 Master of Architecture Thesis Committee Member. David McCredo, "Design Guidelines and Strategies for Thermal Solar Management of Fenestration in the Desert Climate"
- 2016 Master of Architecture Thesis Committee Member. Johny Corona, "Identify an Ideal Residential Wall Assembly for Las Vegas Climate Considering Construction Cost, Energy Performance and Embodied Energy"
- 2016 Master of Architecture Thesis Committee Member. Adam Bradshaw, "Water Harvesting Method and the Built Environment: The Role of Architecture in Providing Water Security"
- 2016 Master of Architecture Thesis Committee Member. Sean Zurko, "Innovative Fiber-Optic / Thin-Film Photovoltaic Systems: Adequately Redistributing Daylight While Harvesting Energy"
- 2015 Master of Architecture Thesis Committee Member. Ludwing Vaca, "Architectural Form, Orientation, and Energy for Residential Design in the Southern Nevada Region"
- 2015 Master of Architecture Thesis Committee Member. John Carroll, "What is the best residential roof assembly for the U.S. Desert Southwest, with respect to cost, energy efficiency and embodied energy concerns"

- 2015 Master of Architecture Thesis Committee Member. Nicholas Inouye, "Design Guidelines to Select Systems and Strategies to Achieve Adequate Indoor Air Quality in the Mojave Desert Climate Region"
- 2014 Master of Architecture Thesis Committee Member. Milica Tajsic, "Building Envelope for Energy-Efficient Townhomes, A Case Study for DOE Challenge Home Student Design Competition"
- 2013 Master of Architecture Thesis Committee Member. Rhett Noseck, "The Water Wall – A Passive Solar Collection and Thermal Massing Device for Supplementary Radiant Heating"

UNDERGRADUATE ADVISING AT UNIVERSITY OF NEVADA LAS VEGAS

- 2017 Undergraduate Honors College Thesis Committee Member. William Zheng, "Smart Citites"

NEW COURSES + CURRICULA DEVELOPED AT UNIVERSITY OF NEVADA LAS VEGAS

- 2014 AAD 367 Advanced Computer Applications in Architecture (New Course)
- 2013 AAD 267 Computer Applications in Architecture (Existing Course re-Developed with Jonathon Anderson)

2004-13 **COURSES TAUGHT AT BALL STATE UNIVERSITY**

- ARCH 100 Introduction to Architecture
- ARCH 103 Graduate (Career-change) Architectural Design Studio
- ARCH 163 Graduate (Career-change) Design Communications Media
- ARCH 201 Architectural Design Studio
- ARCH 202 Architectural Design Studio
- ARCH 261 Design Communications Media
- ARCH 263 Digital Design
- ARCH 402 Advanced Topics Design Studio
- ARCH 502 Graduate Advanced Topics Design Studio
- ARCH 581 Digital Design + Fabrication Foundations I Graduate Elective
- ARCH 582 Digital Design + Fabrication Foundations II Graduate Elective
- ARCH 598 Digital Design + Fabrication Advance Elective
- CAP 102 Foundation Design Studio
- CAP 162 Design Communications Media

NEW COURSES + CURRICULA DEVELOPED AT BALL STATE UNIVERSITY

- DFab Graduate Certificate Program (12 credit hours)
- ARCH 581 Digital Design + Fabrication Foundations I Graduate Elective
- ARCH 582 Digital Design + Fabrication Foundations II Graduate Elective
- ARCH 593 Digital Design + Fabrication Applications Seminar
- ARCH 594 Immersive Practicum Lab
- ARCH 263 Digital Design

INDEPENDENT STUDY ADVISING AT BALL STATE UNIVERSITY

- 2013 Jeannie Segó. "Interactive Architecture Prototypes"
- 2012 Robert Cichocki. "Catalytic Conversions"
- 2011 Michael Bolatto, Tyler Cox, Neil Hoerstman. "ZIPP Display Wall Prototyping"
- 2011 Ben Fruehling. "Furniture Prototypes"
- 2011 Gabrielle Sorrento. "Parametric Design of Performative Building Envelopes"

HONORS COLLEGE THESIS ADVISING AT BALL STATE UNIVERSITY

- 2012 David Smith. "Force and Form"

GRADUATE ADVISING AT BALL STATE UNIVERSITY

- 2013 Master of Architecture Thesis Committee Chair. Tyler Cox + Michael Bolatto, "Cloud-Context"
- 2013 Master of Architecture Thesis Committee Member. Tianxiao Peng, "Phenomenate"
- 2012 Master of Architecture Thesis Committee Member. Andre Haffenden, "Genetic Algorithmic Architecture: Optimizing Digital Design Through Evolutionary Processes"

- 2012 Master of Architecture Thesis Committee Member. Curt Shriner, "Against the Odds: Energy Efficient Casino Design"
- 2008 Master of Architecture Thesis Committee Member. Christopher Reiter, "Re-Wiring Architecture for Mobile Technologies: New Types of Built Environments Informed/ Engendered by Mobile Privatization"
- 2006 Master of Architecture Thesis Committee Member. Nutthawut Piriyaarakob, "Scrap Compiling: Using Digital Technology to Manipulate Scraps from Construction Sites in Order to Create Architecture"

PROFESSIONAL SERVICE

- 2019 Co-Chair, AIA/ACSA Intersections Symposium: "Bottom-up Social Change". A'19: 2019 AIA Annual Conference on Architecture, Las Vegas, 8 June.
- 2011-19 Technical Committee, Paper Reviewer. The Association for Computer Aided Design in Architecture annual conferences.
- 2017-19 Technical Committee, Paper Reviewer. The Iberoamerican Society of Digital Graphics (SIGRAD) annual conference.
- 2016-17 Technical Committee, Paper Reviewer. The National Conference on the Beginning Design Student.
- 2016 Technical Committee, Paper Reviewer. CAADence in Architecture Conference. Budapest University of Technology and Economics.
- 2015 International Journal of Architectural Computing Peer Reviewer. Special Issue: "Sentience and System Boundaries".
- 2006 Co-coordinator. The Digital Exchange Design Exhibition for 2006 ACADIA Conference, The New Gallery, Louisville, KY, September-October.

UNIVERSITY SERVICE

- 2018-present Graduate Coordinator, School of Architecture.
- 2018-present ACSA Faculty Councilor, School of Architecture.
- 2018-present Graduate Program Review Committee, Member, University of Nevada Las Vegas.
- 2018-present Graduate Awards Committee, Member, University of Nevada Las Vegas.
- 2016-present Admissions + Recruitment Committee, Member, School of Architecture.
- 2013-present Technology Committee, Chair, School of Architecture.
- 2017-18 Lectures + Exhibits Committee, Member, School of Architecture.
- 2013-18 Sim Lab Coordinator, School of Architecture.
- 2013-18 Building Safety Committee, Member, School of Architecture.
- 2016-17 Personnel Committee, Non-tenured (non-voting) member, School of Architecture.
- 2013-15
- 2015-17 Merit Committee, Member, College of Fine Arts.
- 2013-16 Safety Committee, Member, College of Fine Arts.

AD HOC COMMITTEES

- 2018-19 Shop Technician Search Committee, Chair, School of Architecture.
- 2017-18 Learning Technologist Search Committee, Member, College of Fine Arts.

- 2017-18 Faculty Search Committee, Member, School of Architecture.
- 2017-18 Director Search Committee, Member, School of Architecture.
- 2017-18 Strategic Planning Committee, Member, College of Fine Arts.
- 2016-17 NAAB Professional Accreditation Team Visit Preparation (Team room + Student Work Exhibit Design + Setup).
- 2016-17 Faculty Search Committee, Member, Department of Art.
- 2015-16 Faculty Search Committee, Chair, School of Architecture.
- 2015-16 Faculty Search Committee, Member, Department of Art.
- 2014-15 Faculty Search Committee, School of Architecture.
- 2014 Shop Technician Search Committee, Chair, School of Architecture.
- 2013-14 Faculty Search Committee, Member, School of Architecture.
- 2011 Curator + Organizer, Research in Materials and Manufacturing for Extreme Affordability Gallery Exhibition, Department of Architecture, Ball State University.
- 2005-07 College of Architecture + Planning IT Committee, Ball State University.

OTHER SERVICE

- 2009-12 Volunteer web management, Beverly Willis Architecture Foundation, New York, NY.

MEDIA COVERAGE + FEATURED WORK

- 2019 Samantha Solano and Alberto de Salvatierra (2019). "Notational Topographies and Experiential Literacies through Constructive Drawings." Chapter in Nadia Amoroso (ed). *Representing Landscapes: Analogue*. New York: Routledge. Contributed teaching/students' work displayed in the book chapter.
- 2017 Brause, Caryn (2017). *The Designer's Field Guide to Collaboration*. New York: Routledge. Two creative projects—"Ghosts of Las Vegas" and "Field Instrument" were shown and discussed in book about professional collaboration. <https://doi.org/10.4324/9781315753584>
- 2017 Soto-Rubio, Mauricio (2017). *The Making of Architecture*. Calgary: University of Calgary Faculty of Environmental Design. "Responsive Prototypes" featured in monograph of design-build projects.
- 2015 Architect Magazine
Jones, Jenny. "2015 R+D Awards: Citation: Co-Robotics and Construction". Online source: http://www.architectmagazine.com/awards/r-d-awards/citation-co-robotics-and-construction-oscr-1-4-prototypes_o
- 2014 David Magazine
Sodoma, Brian. "Circuit Boards, Bricks & Mortar: Call Your House, it Wants to Talk to You". Online source: <http://www.davidlv.com/2014/04/live/test.php>
- 2014 Vegas Seven
Willis, Stacy. "For These Rebels, a Chance to Shelter the Homeless". Online source: <http://vegasseven.com/2014/04/15/rebels-chance-shelter-homeless/>
- 2012 WIRED.com
Sterling, Bruce. "Designer Furniture for the Center for Media Design". Online source: http://www.wired.com/beyond_the_beyond/2012/04/designer-furniture-for-the-center-for-media-design/
- 2010 suckerPUNCH
"Morpholuminescence". Online source: <http://www.suckerpunchdaily.com/2010/01/18/morpholuminescence/>

- 2009 ArchDaily
Jordana, Sebastian. "Works from i.M.A.D.E". Online source:
<http://www.archdaily.com/32651/works-from-imade/>
- 2008 AD (Architectural Design)
Preston, Julieanne. "Affecting Data". AD: Interior Atmospheres. London: Wiley. Volume 78, Issue 3, pp. 36-45.
- 2008 Klinger, Kevin. "Relations: Information Exchange in Designing and Making Architecture". Chapter in B. Kolarevic, K. Klinger (eds.), Manufacturing Material Effects: Rethinking Design and Making in Architecture. London: Routledge, pp. 26-36.