**Nicholas Pisca – Curriculum Vitae**                                                                 Updated February 25, 2019

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## ° Work

0001D LLC. Inglewood, California

Dec 2005-Jun 2011-Current          Founder, Computational Designer

Founder and Director of a design research lab investigating new methods of algorithmic/parametric/BIM/cellular computation and robotics for architecture, visual effects, graphic design, web, biology, and other media.

Projects:                            Paramnesia (Revit Parameter Proofreading Plug-in)
                                     "Mega-Dots!" Computationally-Formulated Connect-the-Dots Puzzle
                                     Undersexualized Recursion Architectural Series
                                     "Lake Effects" Rouse-D Exhibition Proposal (with Kieran McCaughey), Detroit, Michigan
                                     "INTRUDER" Installation (with Kieran McCaughey), Los Angeles (Constructed November 2008)
                                     "Glendale Satellite Library" Digital Process (with Juan Azulay), Glendale (Built 2008)

Gehry Technologies. Los Angeles, California

April 2005-Jan 2015                  Technical Manager

Technical director and researcher focusing on the design, development, and implementation of advanced parametric architectural projects, scripting, & construction automation. Major emphasis on high-rise, museum, and large-scale construction and rationalization. As Knowledge Manager: conducted training seminars, managed GT content, developed project-specific & universal programs, and co-edited the GTwiki.

                                     Main Projects: One Spruce Street Tower, Manhattan, USA  (Built 2010)
                                     Lou Ruvo Brain Institute, Las Vegas, USA  (Built 2010)
                                     Dr Chau Chak Wing Building, Sydney, Australia  (Built 2014)
                                     Guggenheim Abu Dhabi, Abu Dhabi, UAE

Xefirotarch (Hernan Diaz Alonso). Los Angeles, California

2005                                 Design Team Member and Chief Programmer

Developed the automation tools, construction/fabrication documents, and optimization techniques to rationalize the 2005 PS1 Sur project.

Projects:                            2005 PS1 Sur

Mudrovich Architects. Wausau, Wisconsin

May 2003-Aug 2004                    Architectural Intern

Worked on several regional financial institution projects through all phases of design.

Projects:                            River Valley State Bank, Wausau, Wisconsin
                                     Heritage Credit Union, Madison, Wisconsin

Flad & Associates. Madison, Wisconsin

May 2002-Aug 2002                    Architectural Intern

Worked on design and construction documents; Explored schematic design and produced threedimensional computedaided renderings and models. All work consisted of hospital and pharmaceutical research facilities.

Project Inc. Milwaukee, Wisconsin

Jul 2002-Jan 2003                    Student and Volunteer

Served as a structural consultant and construction document detailing advisor for a nonprofit orphanage construction project and masterplan. Also worked on illumination design, construction administration, and promotional design.

Projects:                            Los Guidos Project, San Jose, Costa Rica

Major Industries Inc. Wausau, Wisconsin

Jul 1999-Aug 2001                    Engineering Technician and Design Drafter

Drew submittal and production (shop) drawings for large commercial skylights and curtain-walls. Developed and implemented Excel-driven automated shop drawing procedures. Worked with architects, engineers, and contractors for scores of projects worldwide.

## ° Learn

Master of Architecture, Southern California Institute of Architecture, 2006
Concentrations: Computational Architecture, Parametric Design
Thesis: "Flesh[]logically-transparent"

BSAS, University of Wisconsin Milwaukee, School of Architecture and Urban Planning, 2003
Concentrations: Advanced techniques of 3D digital design
Magna cum laude with structural engineering minor.

**° Teach**

University of Southern California School of Architecture, Los Angeles, California
      Sep 2009-2012                    Computational Design Studios and Thesis Adviser
      Teaching computational design in architecture and urban planning, collaborating with Neil Leach in grad and undergrad studios.

University of California Santa Barbara Media Art and Technology Department, Santa Barbara, California
      Apr 2007-Aug 2009              Lecturer
      Research and teaching focus on computer programming in design, representation, and animation. Emphasis on generative systems for visual and transdisciplinary effects.

Southern California Institute of Architecture, Los Angeles, California
      Spr 2006-Fall 2008              Instructor and Co-Adviser
      Instructed the "Generative Scripting" workshop seminars, exploring the field of programming and computation in the context of architectural frameworks. Investigating diverse fields as generative systems, automated construction documentation, program communication, et cetera.

**° Publish**

Pisca, Nicholas. "Forget Parametricism." Computational Design. Ed. Neil Leach & Philip F. Yuan. China: Tongji University Press. 2017. p 42-45.
Pisca, Nicholas. "Genotower." Skyscraper for the XXI Century. Ed. Carlo Aiello. New York: eVolo Publishing. April 2008. p 20-22.
Pisca, Nicholas. YSYT Maya MEL Basics for Designers. Los Angeles: 0001d Publishing, 2009.

0001d Sherpa Blog.          Editor, Blogger, and Founder          **http://www.nickpisca.com/sherpa**
      Aug 2009-Present        AEC Technology Website for scripting, rapid prototyping, visual effects, and design.

0001d Blast Meta Scripting Wiki.      Founder and Contributor          **http://www.nickpisca.com/blast**
      Dec 2008-Present        AEC Open Source repository for computational design codes, tutorials, and samples.

Gehry Technologies' GTWiki.      Co-Editor and Main Contributor      **http://www.gtwiki.org**
      Jun 2006-2015           Digital Project and CATIA wiki for advanced parametric design.

**° Affiliate**

Association for Computer Aided Design in Architecture (ACADIA) Conference Review Committee Member      2011-Present
Orange Coast College Architectural Technology Committee Member      2016-Present
Orange Coast College Makerspace Advisory Board Member      2017-Present
Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) Conf Rev Cmte Member      2018-Present
UCLA Pediatric Endocrinology Program Diabetes Patient and Family Advisory Committee      2018-Present

Wausau Daily Herald. Current Events and Political Contributor.      Editorial Panelist
      May 2004-Aug 2004

"IDI Online." Int'l Harvester Diesel & Biofuel System Innovation.      Founder and Editor      **http://www.nickpisca.com/diesel**
      Aug 2013-Present

Waste Vegetable Oil (WVO) Fuel Travel and Awareness.      Co-Founder      **http://www.nickpisca.com/wvo**
      Mar 2006-Present
      *Publications, Articles, and Interviews about my research on WVO Fuel with collaborator Glenn Wienke:*
      Berg, Martin. "VeggiePowered Road Trip A Frank Gehry design whiz creates biofueled Volkswagens" LA Weekly, June 9, 2011.
      Peckham, Pat. "Veggie Oil Road Trip." City Pages. April 21, 2011.
      Neupert, Raymond. "Wausau Natives Building Vegetable Oil Powers Cars." W.S.A.U. AM Radio Report and interview. April 18, 2011.
      Mountain, Cami. "Cutting the Gas Bill Fat." W.A.O.W. Television News Report and interview. April 5, 2011.
      Uhlig, Keith. "Wausau West Grads Fuel Travels with Used Vegetable Oil." Wausau Daily Herald. March 17, 2011.
      Uhlig, Keith. "A Love Affair with the Open Road." Wausau Daily Herald. August 3, 2006.
      Uhlig, Keith. "Car Run on Vegetable Oil has Rough Trip." Wausau Daily Herald. May 4, 2006.
      Uhlig, Keith. "Friends Hope to See Sights, Make Statement on Road Trip." Wausau Daily Herald. April 25, 2006.

## ° Collaborate

Vivarium (SCIArc Installation)
       Ma77er Management Installation by Juan Azulay
       March 2010                          Virtual Organism Designer
       Designed and implemented a multi-topological virtual organism that lived off of and evolved from live video feeds of physical organisms.

The History Channel's City of the Future Competition for Los Angeles
       Collaboration with Jennifer Siegal (OMD), Roland Wahlroos Ritter, Paulette Singley, Emily White
       Dec 2006                          Collaborator
       Authored scripts to simulate urbanscale organic bioinfranature and simultaneous representational value for the Infiniti Design Excellence
       Award winner. Also completed rendering and video compilation.

MAK Center Vertical Garden Competition 2006
       Collaboration with Juan Azulay, David Fletcher
       May 2006-Jun 2006             Collaborator, Digital Manager, Visual Effects Supervisor
       Authored scripts to produce simulation abnormal plant growth and simultaneous representational value for the winning entry for the MAK
       Center Vertical Garden Competition. Also completed the digital modeling, rendering, execution and drawing extraction.

## ° Recognize

| | | | |
|---|---|---|---|
| Jan 2018 | Voyage LA | Images Publication | Invited interview and publication. "Meet Nicholas Pisca of 0001D in Inglewood" |
| 2012 | "Parametrics Explained" | Contributor | Portions of this chapter, by Neil Leach and Philip Yuan (footnote, p 1) |
| Oct 2011 | Scripting Cultures Book | Invited Commenter | Featured with 30 other prominent "scripting leaders" worldwide. |
| May 2010 | Rouse D Exhibit 2 | Invited Exhibitor | "Lake Effects" Exhibited at the Southwest Detroit Business Association in Detroit. |
| Sep 2009 | Rouse D Exhibit | Invited Exhibitor. | "Lake Effects" Project Exhibited at the 555 Gallery in Detroit. |
| Nov 2008 | Main Event 7 | Invited Co-Exhibitor. | Installation "INTRUDER" exhibited in downtown Los Angeles |
| Oct 2008 | Arch Digital | Exhibitor | "GenScriptingSpr2008" featured. |
| Jan 2008 | SICA Gallery | Invited Exhibitor. | "Flesh[]logically-transparent" showcased. SICA "Architects without Architecture" |
| Nov 2007 | Scriptedbypurpose | Exhibitor. | "Balcony Project" exhibited for Xplicit&Ncoded on "scriptedbypurpose." |
| Feb 2007 | Julius Shulman Institute | Invited Co-Exhibitor. | City of the Future collaboration work exhibited at Woodbury University |
| Feb 2007 | LACE Gallery | Invited Co-Exhibitor. | City of the Future collaboration work exhibited at LACE in Los Angeles. |
| Feb 2007 | Gehry Partners Group Show | Invited Exhibitor. | Digital genetic research showcased. |
| Nov 2006 | A+D Magazine | Image Publication. | Fleshology collaboration work printed in A+D. |
| Jun 2006 | eVolo | Winner. | "Gen Tower" awarded Special Mention in 2006 Skyscraper Competition. |
| Nov 2005 | Beyond Media | Exhibitor. | Collaboration design work exhibited. |
| Sep 2005 | SCIArc | Image Publication. | "Flesh[]logically-transparent" showcased on SCIArc website. |
| Apr 2005 | Orange 22 Gallery | Exhibitor. | "Fleshology" architecture design group exhibit. Downtown Los Angeles. |
| Apr 2005 | WIRED | Image Publication. | Collaboration work and images posted on Bruce Sterling's WIRED blog. |
| 2005 | EVIDENTS Magazine | Exhibitor. | Agitprop project imagery published in EVIDENTS. (ISBN 0976007924) |
| 2001-02 | AIA | Winner. | Two-time Southwest Chapter AIAW Scholarship recipient. |
| Dec 2002 | UWM | Winner. | Richard Hunzinger Memorial Scholarship recipient. |
| May 2002 | MIAD Gallery | Exhibitor & Co-Currator | "IldmrdsGUkdnswbiGMVmVjfemaEhmeLg" and "experience—space&details" |
| Sep 2002 | Flad | Exhibitor. | "visual representation 001" displayed at the Flad Gallery Night. |
| Dec 2000 | UWM | Winner. | "300 Chairs Competition." Honorable Mention. |

## ° Innovate

Two & three-dimensional computer-aided drafting (and scripting):
       AutoCAD (VBA), Rhino (RVB), Maya (MEL), CATIA (VBA, KWE), Digital Project (VBA, KWE), Revit (VB.Net, C#.Net), 3D Studio VIZ
Scripting & programming languages:
       *Proficient*: Visual Basic, MEL, Action Script, VB.Net, C#.Net; *Comfortable*: C++, PHP, HTML, Python, Processing, Win Batch, Javascript
Image, website, & video/DVD editing software:
       Photoshop, Illustrator, Flash (ActionScript), Adobe Premiere, Jasc Pro, Adobe Encore (DVD), iDVD, iMovie
Still frame & animation rendering capabilities:
       Maya software/hardware/vector/mental ray, Rhino treefrog & flamingo, DP/CATIA Photo Studio, 3DSMax/VIZ, Accurender
Construction and management scheduling and sequencing programs:
       Microsoft Excel (VBA scripting), Microsoft Project (VBA scripting), Primavera
CNC and prototyping experience:
       3axis CNC milling, Laser cutting, Powder and Plastic 3D Printing, Z Corp Machine Repair, Vacuum Forming, SurfCAM experience
Drafting, painting, and drawing capabilities:
       Ink on Mylar, charcoal, pencil, acrylics
NCARB IDP Completion. Architect Registration Examination in progress.

## ° Instruct

| 2007 | RMIT | Instructor: | BIM Automation Workshop |
|------|------|-------------|-------------------------|
| 2007 | UW-Seattle | Instructor: | Parametric Design Workshop |
| 2006 | Ohio State University | Instructor: | Parametric Design Workshop |
| 2005 | SCIARC | Assistant Teacher: | Scripting Workshop (Nick Puckett) |
| 2005 | SCIARC | Assistant Teacher: | Digital Genera (Jean Michel Crettaz & Richard "Doc" Bailey) |
| 2004 | SCIARC | Assistant Teacher: | Digital Chimera (Dennis Shelden & Cristiano Ceccato) |
| 2001-02 | UW-Milwaukee | Volunteer: | AutoCAD Training Seminars |
| 1999 | UW-Marathon County | College Mathematics Tutor | |


## ° Talk

| Oct 6, 2017 | Interview | Voyage LA (Sid Reddy) |
|-------------|-----------|------------------------|
| April 26, 2011 | Lecture | UCSB Media Arts Technology Department Lecture Series () |
| March 3, 2011 | Invited Participant | Design Intelligence Symposium (Anne Balsmo, Neil Leach) |
| Feb 2, 2011 | Presenter | UCLA Jules Stein Eye Institute Grand Rounds (with Ralph Levinson) |
| Jun 2, 2010 | Interview | ArchiBureau, Patrick Drewello. |
| Dec 12, 2009 | Panelist/Respondent | Intensive Fields Conference; Parametric Techniques Panel (Neil Leach, Roland Ritter) |
| May 29, 2009 | Lecture | UCSB Media Arts Technology Department Lecture Series (Curtis Roads) |
| March 12, 2008 | Introducer | SCIArc Lecture Series (Robert Hodgin) |
| Apr 2007 | Panelist/Presenter | Agentcode Los Angeles Symposium (Ed Keller) |
| Jan 2007 | Interview | Interview in the documentary "On the Way to Babylon" by Moshe Hacmon. |
| Sep 2005 | Interview | Interview in the documentary "Sur, An Architectural Tango." |


## ° Participate

| Jan 2019 | Conference Review Cmte Member | CAADRIA 2019 Intelligent and Informed (Matthias Hank Haeusler, Marc Aurel Schnabel, Tomohiro Fukuda) |
|----------|-------------------------------|------------------------------------------------------------------------------------------------------|
| May 2018 | Conference Review Cmte Member | ACADIA 2018 RECALIBRATION (Philip Anzalone, Andrew John Wit, Macello Del Signore) |
| May 2017 | Conference Review Cmte Member | ACADIA 2017 MIT (Skylar Tibbits) |
| May 2016 | Conference Review Cmte Member | ACADIA 2016 Posthuman Frontiers (Sean Ahlquist, Matias del Campo, Kathy Velikov, Sandra Manninger) |
| May 2015 | Conference Review Cmte Member | ACADIA 2015 NA (Lonn Combs, Chris Perry) |
| May 2014 | Conference Review Cmte Member | ACADIA 2014 Design Agency (Alvin Huang) |
| May 2012 | Conference Review Cmte Member | ACADIA 2012 |
| Dec 2011 | Faculty Critic | USC Fall Studio Final-Review (Neil Leach) |
| Oct 2011 | Faculty Critic | USC Fall Studio Mid-Review (Neil Leach) |
| May 2011 | Conference Review Cmte Member | ACADIA 2011 Integration through Computation |
| Mar 2011 | Faculty Critic | USC Spring Studio Final-Review (Neil Leach) |
| March 2011 | Faculty Critic | USC Spring Studio Mid-Review (Neil Leach) |
| 2011 | Adviser | Building Sciences Graduate Thesis (Hamad Al Olayan) |
| Dec 2010 | Faculty | Critic USC Fall Undergrad Studio Final-Review (collaboration with Neil Leach) |
| Oct 2010 | Faculty | Critic USC Fall Undergrad Studio Mid-Review (collaboration with Neil Leach) |
| May 2010 | Faculty | Critic USC Spring Graduate Studio Final-Review (collaboration with Neil Leach) |
| May 2010 | Faculty | Critic USC Spring Seminar Final-Review (Swarm Intelligence Roland Snooks) |
| Mar 2010 | Faculty | Critic USC Spring Graduate Studio Mid-Review (collaboration with Neil Leach) |
| Dec 2009 | Faculty | Critic USC Fall Graduate Studio Final-Review (collaboration with Neil Leach) |
| Dec 2009 | Faculty | Critic USC Fall Graduate Studio Final-Review (Roland Ritter) |
| Dec 2009 | Faculty | Critic USC Fall Seminar Final-Review (Swarm Intelligence Roland Snooks) |
| Oct 2009 | Faculty | Critic USC Fall Studio Mid-Review (collaboration with Neil Leach) |
| Sep 2009 | Outside | Critic SCIArc Graduate Thesis Final Review (Hernan Diaz Alonso, JM Crettaz) |
| Feb 2009 | Faculty | Critic MediaScapes/UCSB MAT MidReview (JM Crettaz, Marcos Novak) |
| Feb 2009 | Outside | Critic SCIArc Spring Studio Mid-Review (Ed Keller) |
| Oct 2008 | Faculty | Critic MediaScapes Fall Studio Mid-Review (Ed Keller) |
| Oct 2008 | Outside | Critic USC Fall Studio Mid-Review (Kara Bartelt  Lettuce) |
| Sep 2008 | Faculty | Critic SCIArc Graduate Thesis Final Reviews (Hernan Diaz Alonso) |
| Jul 2008 | Faculty | Critic SCIArc Graduate Thesis Mid-Reviews (Elena Manferdini) |
| 2008 | Co-Adviser | Graduate Student Eric Battino (with Ed Keller) |
| 2008 | Co-Adviser | Graduate Student Dave Wolfe (with Tom Wiscombe) |
| 2008 | Co-Adviser | Graduate Student David Kuelby (with Ramiro Diaz Granados) |
| Jun 2008 | Faculty Critic | SCIArc Summer Studio Mid-Review (Ed Keller) |
| May 2008 | Faculty Critic | SCIArc Thesis Prep Final Review (Hernan Diaz Alonso) |
| Mar 2008 | Outside Critic | SCIArc Spring Studio Mid Review (Juan Azulay) |
| Feb 2008 | Outside Critic | SCIArc Spring Seminar Mid Review (Roland Snooks) |
| Oct 2007 | Outside Critic | USC Fall Studio Mid Review (Roland Ritter) |
| Sep 2007 | Outside Critic | SCIArc Thesis Final Review (Marcos Novak) |
| Mar 2007 | Outside Critic | SCIArc Spring Seminar Project Review |
| Mar 2007 | Outside Critic | SCIArc Spring Studio Mid Review (Ed Keller) |
| Jan 2007 | Outside Critic | SCIArc Spring Seminar Early Review |
| Oct 2006 | Outside Critic | SCIArc Fall Studio Mid Review (Ed Keller, Perry Hall) |
| Oct 2006 | Outside Critic | SCIArc Fall Studio Mid Review (Jean Michel Crettaz) |
| Aug 2006 | Outside Critic | SCIArc Summer Elective Final Review |
| Jul 2006 | Outside Critic | SCIArc Summer Studio Mid Review (Ed Keller, Juan Azulay) |