

Jeremy Ficca, RA

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Professional Status

Since 2006 Registered Architect
National Council of Architectural Registration Boards, USA

Since 2006 Licensed Architect
State of North Carolina, USA

Since 2009 Licensed Architect
State of Pennsylvania, USA

Education

2000 Post-Professional Master of Architecture, with commendation
Harvard University

1996 Bachelor of Architecture
Virginia Tech

Academic Appointments

2007-2012- Associate Professor of Architecture with tenure
Carnegie Mellon University

2010-2012 Associate Professor of Architecture
Carnegie Mellon University

2007-2010 Assistant Professor of Architecture
North Carolina State University

2002-2007 Assistant Professor of Architecture
Harvard University GSD

1999 Instructor, Career Discovery Program
Boston Architectural College

1997-2001 Instructor
Boston Architectural College

Administrative Appointments

2007-Present Director, Design Fabrication Lab, Carnegie Mellon University

2016-Present Graduate Studio Programs Executive Committee

2015-Present Track Chair, Master of Advanced Architectural Design

2007- Coordinator, Second Year undergraduate core design studio

Book Contributions

2019 Drawing from the Model
Frank Melendez
Teaching content contribution
Wiley

2013 Performative Materials in Architecture and Design
Editors: Rashida Ng, Sneha Patel
Creative Work contribution
Intellect

2011 Matter: Material Processes in Architecture
Editors: Gail Peter Borden and Michael Meredith
Chapter contribution: Material Resistance
Routledge, Taylor & Francis Group

2009 Digital Fabrications: Architectural and Material Techniques
Lisa Iwamoto
Inclusion of Performative Surfaces material and fabrication research
Princeton Architectural Press, New York, NY

2009 Peter Rose: Houses
Peter Rose
Inclusion of work executed while employed at The Office of Peter Rose
Princeton Architectural Press, New York, NY

2005 The Getty Villa

- Marion True and Jorge Silveti
Inclusion of work executed while employed at Machado and Silveti Associates
Getty Publications, Los Angeles, CA
- 2002 Immaterial – Ultramaterial
Toshiko Mori
Inclusion of materials research on gypsum wall-board conducted at Harvard GSD
- 2000 George Braziller, New York, NY
Studio Works 8, Harvard University Design School
Inclusion of studio project, MoMA Warehouse
- National Conferences Organized**
- 2019 “Black Box”, Co-Chair with Professors Grace La (Harvard) Amy Kulper (RISD)
Association of Collegiate Schools of Architecture (ACSA) National Meeting
Pittsburgh, PA
- Symposia Organized**
- 2009 Digital Tectonics: Robotic Fabrication
mini-symposium on robotic digital fabrication
Carnegie Mellon University
- 2009 Code, Form, Space
co-directed with Professor Golan Levin
mini-symposium on generative form and digital fabrication
Carnegie Mellon University
- Exhibitions Curated**
- 2019-20 “DrawingAttention”, Co-curated with Professors Grace La (Harvard)
Amy Kulper (RISD)
Roca Gallery
London UK
- 2019 “Drawing for the Design Imaginary”, Co-curated with Professors Grace La (Harvard)
Amy Kulper (RISD)
Association of Collegiate Schools of Architecture (ACSA) National Meeting
Carnegie Mellon University, Carnegie Museum of Art, Pittsburgh, PA
- Exhibitions**
- 2019-20 “Drawn Ductile, in DrawingAttention”
Roca Gallery London
- 2013 “Experience the Intersection of Art and Technology”
Remaking Cities Institute Congress
Carnegie Mellon University
- 2012 “4608X3”
Intimate Friction, group show
Mattress Factory
- 2010 “Alice Wall”
Input/Output Symposium
Temple University
- 2007 “Recent Work”
dFAB, School of Architecture
Carnegie Mellon University
- 2007 “Recent Work”
Brooks Hall Gallery, College of Design
North Carolina State University
- 2006 “Bungalow Reconfiguration”
Design Expo Raleigh
Raleigh, NC
- 2005 “Technology Performance Ornament, (*.tpo)”
Municipal Art Society of New York;
Syracuse University School of Architecture;
New York Institute of Technology School of Architecture

- 2005 "Architecture Edge – Surface"
LUMP Gallery, Raleigh
- 2005 "Voices of Innovation", A presentation in the honor of Chancellor James Oblinger
in honor of his installation as Chancellor
NC State University College of Design
- 2005 "ACSA Faculty Design Awards"
ACSA National Meeting, Chicago, IL
- 2004 "Performative Surfaces"
ACADIA "Fabrications" International Conference Exhibition
Cambridge, ON, Canada
- 2004 "Critical Mass"
University of North Carolina, Charlotte
- 2004 "NCSU School of Architecture Faculty Exhibit"
NCSU College of Design
- 2001 "Immaterial / Ultramaterial"
Harvard University Design School Exhibition
- 2000 "MoMA Warehouse"
Harvard University Design School
- 2000 "Vane"
Harvard University Design School Exhibition
- 1998 "Drawings of the Getty Villa"
Virginia Tech College of Architecture and Urban Studies
- Invited Lectures, Presentations, and Panel Sessions**
- 2019 "Drawing Attention", panel discussion with CJ Lim, Helen Thomas, Amy Kulper,
Grace La
Roca Gallery London
- 2019 "Material Disruption", panelist
Building Technology Educators' Society (BTES)
Association of Collegiate Schools of Architecture (ACSA) National Meeting,
Pittsburgh, PA
ACSA National Meeting, Pittsburgh, PA
- 2019 "Drawing for the Design Imaginary", panelist
Association of Collegiate Schools of Architecture (ACSA) National Meeting,
Pittsburgh, PA
- 2018 "Matters of Materiality", speaker and panelist, with Josh Bard (CMU)
Dario Giandomenico (Centria)
Build Pittsburgh
- 2017 "Ductile Empiricism"
Project Session
Architecture (ACSA) National Meeting, Detroit, MI
- 2014 "Digital Fabrication at Carnegie Mellon", speaker and panelist
Build Pittsburgh
- 2013 "Encoding Architecture", panelist
Carnegie Mellon University
- 2011 "Methods is Architectural Teaching", panelist
Building Technology Educators' Society (BTES)
Association of Collegiate Schools of Architecture (ACSA) National Meeting,
Montreal, Canada
- 2011 "Material Divulgence", speaker at Design Week,
American University of Sharjah, United Arab Emirates
- 2011 "Material Resistance", guest lecturer for Introduction to Architecture course,
Colgate University
- 2010 "Material Resistance", keynote speaker at Input/Output symposium
Temple University
- 2010 "Looking Forward: The Future of Architectural Practice", speaker and panelist
Build Pittsburgh
- 2009 "Expressive Tectonics / Suppressive Tectonics", Build Boston

with John Folan
 2009 "Monocular Sleeve – Park City House Addition"
 Faculty Design Session
 Architecture (ACSA) National Meeting, Portland, OR
 2008 "Thinking Through Making", panel presentation on the roll of digital fabrication in the
 curriculum at Carnegie Mellon University
 Materialize Innovation Forum, Leuven Belgium
 2008 "dFAB@CMU", guest lecture to Rothschild Doyno Collaborative
 Pittsburgh, PA
 2006 "Technology, Performance, Ornament", seminar guest lecture,
 School of Architecture, Yale University
 2006 "Performance", Digital Material lecture series, School of Architecture,
 Clemson University
 2004 "Digital Design and Production: Case Studies in Digital Representation and Production"
 (with Gail Borden),
 Seminar Presentation, Building Virginia, Virginia Society AIA,
 Richmond VA
 2004 "Performative Surfaces", Public Lecture, Presentation of Faculty Research and
 Professional Development grant work, North Carolina State University, Raleigh NC
 2003 "Public Space, Territory and Social Activity"
 Designing Better Communities Lectures
 The North Carolina Chapter of the American Planning Association
 Raleigh, NC

CMU dFAB Presentations to visitors

2017 NBBJ Pittsburgh Fall retreat
 2015 Autodesk
 2010-present Alumni visitors during Alumni Weekend

Papers Presented and Published

2011 Material Resistance, Procedural Resistance
 ACSA Annual Meeting, Montreal, Canada
 2005 Performative Surfaces
 ACSA Annual Meeting, Chicago, IL
 2004 Performative Surfaces
 ACSA Northeast Regional Meeting, Syracuse University, Syracuse NY
 2004 Representing the Whole
 21st National Conference on the Beginning Design Student
 Hampton VA
 2002 Creases and Plugs
 ARCC International Conference
 Tempe, AZ
 2003 Opportunities within the Ordinary
 20st National Conference on the Beginning Design Student
 Stillwater, OK

Invited Book Reviews

2017 TAD Journal Issue 01: VIRAL
 Building Dynamics, Branko Kolarevic & Vera Parlec
 Reviews Editor: Chris Ford

Academic Conference Participation, Moderation, Working Sessions

2019 "Opening Roundtable Plenary" moderator with Peggy Deamer, Antoine Picon,
 Amy Kulper, Grace La
 2017 Moderator for Project Session
 Association of Collegiate Schools of Architecture (ACSA) National Meeting,
 Detroit, MI
 2016 Moderator for "Material Tectonics"
 Façade Tectonics World Congress

Los Angeles, CA
 2008 "Failing Often, Failing Early", panel session organizer and moderator
 Association of Collegiate Schools of Architecture (ACSA) National Meeting,
 Houston, TX
 2008 Moderator for "Expressive Tectonics / Suppressive Tectonics"
 Association of Collegiate Schools of Architecture (ACSA) West Meeting,
 Los Angeles, CA
 2007 Cranbrook Teachers Seminar, Integrated Practice and the 21st Century Curriculum
 2007 AIA TAP, The Future of Professional Practice, education session

Interviews of Jeremy Ficca

2016 Digital Fabrication and Architectural Robotics in the Design Studio
 Autodesk Academy
 2011 Fabrication
 In Columns, Journal of the American Institute of Architects
 2010 Where Ideas are Tested, Inside Carnegie Mellon's School of Architecture by Charles
 Rosenblum and Becky Spevack
 In Columns, Journal of the American Institute of Architects

Press about Jeremy Ficca

2019 "Step in the Changing World of Drawings" by Pamela Buxton
 RIBA Journal, September
 2012 Gestures: Intimate Friction Review
 Sculpture, December
 2012 "Fab Four"
 ARCHITECT, January
 2011 2011 Isabel Sophia Liceaga Fund Awarded
 Carnegie Mellon University Press Release
 2009 Carnegie Mellon Professor Receives Henry Hornbostel Teaching Award
 Carnegie Mellon University Press Release
 2008 Leveraging Advanced Design Tools
 Carnegie Mellon University Homepage Innovation Cover Story

External Grants under review

2019 "DrawingAttention" Publication, Graham Foundation
 with Professors Grace La (Harvard) Amy Kulper (RISD)
 2019 "Toolkit for Renewable Prototyping" AIA Upjohn
 Co-PI with Kent Suhrbier, AIA, BCJ Architects

Internal Grants Awarded

2019 Gruger Faculty Award, School of Architecture, Carnegie Mellon University
 2015 Liceaga Faculty Award, School of Architecture, Carnegie Mellon University
 2011 Liceaga Faculty Award, School of Architecture, Carnegie Mellon University
 2004 North Carolina State University Research Assistantship Award, "Mobile Learning
 Units"
 2003 North Carolina State University Faculty Research and Professional development
 grant, "Performative Surfaces"

Externally Funded Design Studios, Courses and Workshops

2019- Autodesk, Workshop Forthcoming, \$25,000
 2017 Autodesk, Summer Build Workshop, \$40,000
 2017 Alcoa, advanced design research studio, \$10,000
 2016 Centria, Fabricating Customization seminar, \$15,000 including material donation
 2016 Alcoa, advanced design research studio, \$10,000
 2015 Alcoa, advanced design research studio, \$10,000
 2015 Centria, Fabricating Customization seminar, \$10,000
 2014 Alcoa, advanced design research studio, \$10,000
 2014 National Concrete Masonry Association, second year studio competition, \$7,000
 2013 National Concrete Masonry Association, second year studio competition, \$7,000

2013 Alcoa, advanced design research studio, \$10,000
2012 Alcoa, advanced design research studio, \$15,000
2011 Alcoa, advanced design research studio, \$5,000

University Lab Resource Funding Garnered

2018 Design Fabrication Lab CNC mill acquisition, with Stephen Lee, School Head, \$35,000
2013 Design Fabrication Lab expansion and Robot Lab, with Stephen Lee, School Head and Assistant Professor Joshua Bard, \$215,000
2007 Design Fabrication Lab Establishment, with Laura Lee, School Head, \$450,000

Invited Academic Design Juries

2019 Ohio State University
2017 University of Texas at Austin
Kennesaw State University
2015 NC State University
2014 Ohio State University
2013 ACSA 2012-2013 Steel Design Student Competition
2012 Cornell University
University of Michigan
Tulane University
University of Texas at Austin
University of Wisconsin Milwaukee
Ohio State University
2011 University of Buffalo
Colgate University
2010 University of Michigan
University of Minnesota
University of Pennsylvania
2009 University of Wisconsin Milwaukee
2008 Penn State University
2007 University of Florida
2006 Penn State University
Clemson University
University of Cincinnati
2004 Syracuse University
2003 Virginia Tech
2002 University of Tennessee
2001 Northeastern University

Invited Professional Design Juries

2018 AIA Baltimore Design Awards

Practice

2007-present Ficca Architecture (Pittsburgh, PA) Principal
Commissioned Projects
Conflict Kitchen (unbuilt)
dFAB phase 2, Carnegie Mellon University (completed 2013)
Quantum Theater – Mobile Entrance, Pittsburgh, PA (completed 2011)
Gamma Sports Lobby, Pittsburgh, PA (unbuilt)
Beckers / Davidoff Residence, Pittsburgh, PA (unbuilt)
Monocular Sleeve, Residence In Utah (unbuilt)
dFAB phase 1, Carnegie Mellon University (completed 2008)
2000-2002 The Office of Peter Rose (Cambridge, MA) Senior Designer, Project Manager
Martha's Vineyard Residence (completed 2004)
Potomac Residence (unbuilt)
1996-1999 Machado and Silvetti Associates (Boston, MA) Designer
The Getty Villa Museum (completed 2005)
University of Utah Museum of Fine Arts (completed 2000)

1994 Dennis Kilper, Architect
Blacksburg, VA
Designer

Consulting

2016 North Carolina Museum of Art, with Provost Studio
African Art Exhibition Design

2015 Chicago Scenic & Digital Manufacturing and Design Innovation Institute
Visitor Experience Design

2013 Museum of Science and Industry, Chicago and Skidmore, Owings and Merrill, Chicago
Future Home 2050 Exhibition

Design Awards

2008 Design Award of Excellence – Architectural Detail and Craftsmanship
from The American Institute of Architects, Pittsburgh Chapter for the Carnegie Mellon University Digital Fabrication Lab
Design Award of Excellence
from the American Institute of Architects, Pittsburgh Chapter for Monocular Sleeve – Park City Utah Addition (unbuilt)

2004-2005 Faculty Design and Research Award
from the Association of Collegiate Schools of Architecture for Performative Surfaces

Carnegie Mellon University Teaching

2015- Pro-seminar, Master of Advanced Architectural Design, with Kai Gutschow
2013- Advanced synthesis option studios, graduate and undergraduate
2011-2012 Advanced research design studio - undergraduate
2007-2011 Introduction to Digital Media - undergraduate
2007- Architecture Elective Courses

Teaching Awards

2009 Henry Hornbostel Teaching Award
from the College of Fine Arts, Carnegie Mellon University for teaching excellence and commitment to design education

2005-2006 New Faculty Teaching Award
from the Association of Collegiate Schools of Architecture and the American Institute of Architecture Students

2005 Outstanding Teacher Award
from the College of Design, North Carolina State University for teaching excellence and commitment to design education

International and Invited Teaching

2019 Summer School of Architecture, Carnegie Mellon University
Study Abroad in Scandinavia
With Professor Kai Gutschow

2017 Summer School of Architecture, Carnegie Mellon University
Study Abroad in Holland
With Professor Kai Gutschow

2015 Summer School of Architecture, Carnegie Mellon University
Study Abroad in Switzerland and Environs
With Professor Kai Gutschow

2013 Summer School of Architecture, Carnegie Mellon University
Study Abroad in Spain
With Professors Kai Gutschow, Diane Shaw, Donna Ficca

2012 Summer School of Architecture, Carnegie Mellon University
Study Abroad in Switzerland and Environs
With Professor Kai Gutschow

2011 Department of Architecture, American University of Sharjah;
United Arab Emirates

2008 Design Week invited digital fabrication workshop with Professor Kevin Sweet
School of Architecture, University of Minnesota

2008 "Closing the Loop" invited graduate Catalyst Workshop with Professor Renee Cheng
School of Architecture, Carnegie Mellon University
Carlo Scarpa Seminar, Venice Italy
In conjunction with summer study abroad studio

Advising of Student Research and Thesis Projects

2019 Master of Advanced Architectural Design thesis project advising – 4 students

2018 Master of Advanced Architectural Design thesis project advising – 6 students

2018 Master of Advanced Architectural Design thesis project advising – 3 students

2017 Master of Advanced Architectural Design thesis project advising – 2 students
Independent Study advising – 4 undergraduate students

2016 Master of Advanced Architectural Design thesis project advising – 1 student

2016 Student Undergraduate Research Grant project advising

2013 Bachelor of Architecture thesis advising – 5 students

2010-2011 Graduate Thesis Advisor for visiting scholar
Master of Science Integrated Product Design, TU Delft

2010 Undergraduate Research Project / Exhibition [URO]

Student Exhibitions Organized

2017 "Building Forward" Work from the Autodesk Build Space
Boston Society of Architects Gallery

2017 "Tact[AI]"
student work from Fabricating Customization Course
Carnegie Mellon University

2010 "Pinch Wall"
student work from Digital Tectonics: Robotic Fabrication Course
Input/Output Symposium
Temple University

2010 "Pinch Wall"
student work from Digital Tectonics: Robotic Fabrication Course
Carnegie Mellon University, Pittsburgh, PA

2010 "Public Parking"
faculty advisor to students Zach Cohen and Stephanie Newcomb
EDGE Gallery, Pittsburgh, PA

2008 "Emissive / Compressive"
student work from Carnegie Mellon University
EDGE Gallery, Pittsburgh, PA

2003 "Suburban Attractors"
display of undergraduate studio work
Exhibited at National Beginning Design Conference
Stillwater, OK

Field Trips Organized

2018 Montreal visit to Nordic Structures – ASO studio

2017 Chicago Architecture Biennale - ASO studio

2015 Chicago Architecture Biennale - ASO studio

2010-present CMU Second Year Studio Boston Fieldtrip

2007-2010 CMU Second Year Studio Chicago Fieldtrip

Student Workshops Organized

2017 Autodesk Boston Build with Carnegie Mellon University

2013 Robotic Fabrication, Encoding Architecture Symposium
Carnegie Mellon University

2010 Distributing Rendering conducted by self
Carnegie Mellon University

2009 Processing Workshop conducted by Professor Kostas Terzidis [GSD]
Digital Tectonics: Robotic Fabrication mini-symposium

2009 Carnegie Mellon University
Grasshopper Workshop conducted by PhD student Tsung-Hsien Wang
Digital Tectonics: Robotic Fabrication mini-symposium
Carnegie Mellon University

School, College, and University Service

Carnegie Mellon University
2017-2019 College Review Committee
2015-2018 Chair, Undergraduate Design Awards Committee
2015-present Admissions Review Committee – MAAD program
2012-2015 Co-Chair, George N. Pauly, Jr. Fellowship Search Committee
2012-present SRC, School Review Committee for Reappointment, Promotion and Tenure
2012 NAAB Accreditation
2011-2012 Chair, Faculty Search Committee, successful hire of three tenure-track faculty
2010-2011 School of Architecture Strategic Planning drafting committee
2010-2011 College of Fine Arts, College Council
2009-present Associate of Collegiate Schools of Architecture (ACSA) Faculty Councilor
2008-2009 College of Fine Arts, College Council
2008-2009 Department Head Search Committee
2007 Faculty Search Committee
2007-2009 Curriculum Committee
2007 Advisory Board Task Force
2007-present Undergraduate Admissions

North Carolina State University

2006-2007 Chair, School of Architecture Lecture Series
2006 Team room organizer, NAAB Accreditation Task Force
2005-2006 ACSA Southeast Regional Director Nominating Committee
2002-2005 Bachelor of Environmental Design Admissions Committee (chair 2005)
2005 NC State University, School of Architecture Teaching Fellow Search Committee
2002-2007 Undergraduate Student Advisor
2005 Graduate Student Advisor
2004-2006 Accreditation Committee
2004-2007 Associate of Collegiate Schools of Architecture (ACSA) Faculty Councilor
2004-2007 American Institute of Architecture Students (AIAS) Faculty Advisor

International Service

2015 Faculty Selection Committee member for the position of
Assistant Professor of Progressive Building Technologies
ETH, Zurich Switzerland

Educational Consulting

2011 Consultant to American University of Sharjah: Department of Architecture
Development of Digital Fabrication Pedagogy

Reappointment, Promotion and Tenure External Reviewer

2019 School of Architecture, Rhode Island School of Design
School of Architecture, Penn State University
2018 School of Architecture and Landscape Architecture, University of British Columbia
School of Architecture, University of Michigan
2016 School of Architecture, North Carolina State University
Department of Architecture, University of Buffalo
2015 School of Architecture, Clemson University
2014 School of Architecture, Tulane University
School of Architecture, University of Michigan
School of Architecture and Landscape Architecture, University of British Columbia
2012 The School of Architecture, University of Minnesota
Design School, Arizona State University
2012 School of Architecture, University of North Carolina Charlotte

Department of Architecture, Tyler School of Art, Temple University
School of Architecture, North Carolina State University
College of Architecture, Georgia Tech

Appointments

2009-2014 National Council of Architectural Registration Boards [NCARB]
IDP Educator Coordinator Carnegie Mellon University
2010 ACSA Conferences Task Force
2009-present AIAS Faculty representative

Merit Recognition and Scholarships

2000 Studio Distinction- Professor Terence Riley
Harvard University
2000 J. Templeton Prize Nomination (best thesis or final project)
Harvard University
1995 History and Theory Scholarship
Virginia Tech