

Nick Puckett

Education

Master of Architecture, 2004
The Architectural Association, Design Research Lab, London, UK

Bachelor of Architecture, Cum Laude Honors & Master of Architecture, 2002
The Savannah College of Art and Design, Savannah, USA

Industry Experience

Puckett Research & Design
Founder/Director, 2005–Present

Zaha Hadid Architects, London, UK
Architectural Designer, 2004–2005

Administrative Experience

OCAD University, Toronto, Canada
Program Chair, 2016–present
Digital Futures Undergraduate Program

Transition Program Chair, 2015–2016
Digital Futures Undergraduate Program

Academic Experience

OCAD University, Toronto, Canada
Associate Professor with tenure, 2017–present
Digital Futures, Faculty of Liberal Arts & Sciences

Assistant Professor, 2012–2017
Digital Futures, Faculty of Liberal Arts & Sciences

Co-Director, 2012–present
AntHill Lab

The University of Kentucky, Lexington, USA
Assistant Professor, 2009–2012
College of Design, School of Architecture

Assistant Professor, 2009–2012
College of Engineering, School of Electrical and Computer Engineering

Core Faculty, 2010–2012
The Institute of Sustainable Manufacturing

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The Southern California Institute of Architecture (SCI-Arc), Los Angeles, USA
Visiting Faculty, 2010–2011
XLab Graduate Program

The Architectural Association, London, UK
Unit Master, 2005–2009
1st Year Studio

Media Studies Lecturer, 2005–2009
Undergraduate Program

Director, AAcode Research Cluster, 2009

Course Lecturer, 2003–2004
The Design Research Lab

The University of Westminster, London, UK
Visiting Lecturer, 2008–2009
Diploma School

Visiting Lecturer, 2008–2009
Graduate School, Masters of Architecture and Digital Media program

The University of Innsbruck, Innsbruck, Austria
Visiting Faculty, 2007–2009
Hochbau Institute of Experimental Architecture

The Royal College of Art, London, UK
Visiting Faculty / Thesis Advisor, 2004–2007
Department of Industrial Design Engineering

Teaching, Graduate

OCAD University
DIGF-6037 Creation & Computation. Fall 2012–2018
DIGF-6901 Thesis Stage 2, Experimentation & Development. Fall 2015
DIGF-6Co3 Thesis Stage 1, Foundation & Industry. Summer 2013
DIGF-6Co5 Thesis Stage 3, Production & Reflection. Winter 2013–2014
DIGF-6A04 Ubiquitous Computing. Fall 2012–2014
DIGF-6A03 Eglobal. Fall 2014
DIGF-6B14 CFC Media Lab, Prototyping. Summer 2013–2014
DIGF-6A13 BioArticulation. Fall 2013

University of Kentucky
ARC-599 Augmented Fabrication. Spring 2012
ARC-699 Sight Specific Response. Fall 2010
ARC-659 Graduate Design Studio. Spring 2010

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ARC-599 ColorCode. Fall 2009

ARC-456/658 Vertical Design Studio. Fall 2011

SCI-Arc

Animated Robotics, Spring 2011

DatAnimation, Spring 2010

The University of Westminster

Masters of Architecture & Digital Media, Interactive Systems. Fall 2007, Fall 2008

The Royal College of Art

GoGlobal 3, Beijing. Spring 2007

Mobile Mutations. Spring 2007

Light & Magic. Fall 2006

Thesis Design. Fall 2005, Winter 2006, Fall 2006, Winter 2007

The Architectural Association

Design Research Lab, Scripted Systems. Fall 2003, Fall 2004

Teaching, Undergraduate

OCAD University

DIGF-3003 Atelier III, Investigation. Fall 2015-2016

DIGF-2005 Atelier II, Collaboration. Winter 2016, Winter 2018-2019

DIGF-2003 Augmented Production. Winter 2018

DIGF-3D03 Atelier IV, Synthesis. Winter 2015

DIGF-1B01 Sketching Ideas. Fall 2012, Fall 2013

DIGF-1B01 Digital Models & Fabrication. Fall 2014

DIGF-4C03 Thesis Project II. Winter 2014, Winter 2019

University of Kentucky

ARC-457 4th year Design Studio. Spring 2011

The Architectural Association

First Year Studio. Fall 2006, Winter 2007, Fall 2007, Winter 2008, Fall 2008, Winter 2009

Media Studies, Keyboards are Dead. Winter 2006, Winter 2007, Winter 2008, Winter 2009

Media Studies, Mind & Matter. Fall 2008

The University of Westminster

Field Animation. Winter 2008, Winter 2009

Institute of Experimental Architecture, University of Innsbruck

Scripting Component Logic. Fall 2007, Winter 2008, Fall 2008, Winter 2009

Primary Thesis Advisor

OCAD University

Finlay Braithwaite, *2020 Sound: A Positional-Tracking Microphone and DSP Time-of-Arrival Alignment System*, 2019

Sean Harkin, *Devices for Hyper-Polluted Futures*, 2019

Nadine Lessio, *Working With Useless Machines: A Look at our Shifting Relationship with Ubiquity through Personal Assistants*, 2018

Manik Perera Gunatilleke, *Bodies-Cites: Exploring Embodied Knowledge of Urban Sites through Interactive Virtual Reality Experiences*, 2018

Michael Carnevale, *Toronto Augmented Reality Map: Enhancing Citizen Engagement with Open Government Data using contemporary Media Platforms*, 2017

Jordan Shaw, *Habitual Instinct*, 2017

Chris Olsen, *Expanding the Information Fidelity of Calm Technology Devices Through Techniques of Information Visualization*, 2016

Yikai Zhang, *Virtual Tourism: Digital Scanning, Augmented Reality and Virtual Reality as a Holistic Approach to Chinese Historic Building Preservation*, 2016

Kirsti Langen, *Bringing the Outside In: Creating Artificial Lighting and Evoking Biophilic Response through Solar Benefits*, 2015

Ruzette Tanyag, *Touching objects: Objects as Force-Feedback Devices for Environmental Storytelling*, 2014

Faysal Itani, *Blogtivist: An Exploration of an Online Activist Game Inspired by the Arab Spring*, 2013

Secondary Thesis Advisor

OCAD University

Nimrah Syed, *Wisewords: Bridge Employment & Intergenerational Knowledge Transfer*, 2017

Lee Jones, *Your Body of Water: A Somaesthetic Display for Embodied Reflection*, 2016

Mehnaz Aydemir, *Digital Tools for Children with Autism: Enhancing Sensory Development and the Recognition of Faces and Emotions*, 2016

Laura Stavro-Beauchamp, *Create and Grow Strong: Using Creative Exploration, Expression and Celebration to Foster Resilience in the Youth*, 2015

Xiangyu Sun, *Responsive Environments: Digital Out-of-Home Advertising with a Deeper Level of Interaction through Environmental Data Analytics*, 2015

Ana Jofre, *Anthropomorphic Objects*, 2015

Paula Aguirre Gomez, *A World of Images*, 2015

Maziar Ghaderi, *Playformance: The Virtual Amplification of Spontaneous Hand Gestures in Performance Art*, 2014

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Admissions & Recruitment

OCAD University
Digital Futures Undergraduate Program, Admissions Committee, 2013–present
Digital Futures Graduate Program, Admissions Committee, 2013–present
Look Inside Open House, 2015–present
National Portfolio Day, 2013–present
Graduate Scholarship and Awards Committee, 2013–2014

The Architectural Association
Admissions Committee, 2005–2009
Bursary Committee, 2006
Scholarship Committee, 2007

The Royal College of Art
Admissions Committee, 2006–2007

Curriculum Development

OCAD University
FLOW Curriculum Steering Committee, 2019–present
Digital Futures Undergraduate Program Committee, 2015–present
Digital Futures Graduate Program Committee, 2012–present
Faculty of Liberal Arts & Sciences Curriculum Committee, 2013–present
Institutional Quality Assurance Process (IQAP) Committee, Digital Futures Undergraduate, 2016–2019
IQAP Committee, Digital Futures Graduate, 2016–2019

University of Kentucky
Curriculum Committee, 2010–2012
NAAB Accreditation Committee, 2010–2012
Technology Curriculum Committee, 2010–2012

The Architectural Association
First Year Curriculum Committee, 2005–2009

Hiring Committees

OCAD University
Dean, Faculty of Liberal Arts & Sciences, 2019
Interaction Design tenure track faculty position, 2019
Canada Research Chair, Internet of Things, 2017
Digital Futures Graduate Sessional Instructors, 2015–present
Digital Futures Undergraduate Sessional Instructors, 2015–present

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Fundraising & Partnership Development

OCAD University

Digital Futures Lab Committee, 2018–present

Metro Toronto Convention Centre, Artist Program Chair, 2018–present

Instagram ‘I Voted’ Design Competition Chair, 2019

Project 31 Committee, 2016–present

Creative City Campus Technology Steering Committee, 2016–present

University of Kentucky

Lectures and Exhibitions Committee, 2010–2012

Faculty Senate

OCAD University

Faculty Senator, Faculty of Liberal Arts & Sciences, 2013–2015, 2016–present

Senate Quality Assurance Committee, 2016–present

Senate Undergraduate Studies Committee, 2016–2018

Senate Nominating Committee, 2014–2015

Senate Academic Policy and Planning Committee, 2013–2015

Senate Graduate Studies Committee, 2013–2015

Infrastructure & Resources

OCAD University

Information & Communication Technology Governance, Steering Committee, 2019–present

Information & Communication Technology Governance, Project Assessment Group, 2019–present

Peer Review

Grant Review

Reviewer, Discovery Grant Program, November 2018

Natural Sciences and Engineering Research Council (NSERC) Canada

Conference Review

Peer Reviewer, Technical Papers, February 2018

2018 ACADIA Conference, Mexico City, Mexico

Peer Reviewer, Technical Papers, February 2017

2017 ACADIA Conference, Boston, USA

Peer Reviewer, Technical Papers, February 2016

2016 ACADIA Conference, Ann Arbor, USA

Peer Reviewer, Juried Exhibition, February 2015

2015 ACADIA Conference, Troy, USA

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Peer Reviewer, Technical Papers, February 2015
2015 ACADIA Conference, Troy, USA

Peer Reviewer, Technical Papers, February 2015
2014 ACADIA Conference, Los Angeles, USA

Peer Reviewer, Technical Papers, February 2012
2012 ACADIA Conference, San Francisco, USA

Peer Reviewer, Technical Papers, February 2011
2011 ACADIA Conference, Banff, Canada

Peer Reviewer, Workshop Proposals, May 2013
Smart Geometry 2013, London, UK

Competition Jury

Program Jury, Copycat Academy, April 2014
Luminato Festival, Toronto, Canada

Competition Juror, October 2012
Robot Workshop Competition, SuckerPUNCH Daily

Research

Funding & Support

Living Life Analytics, 2014–2017

Industry support of Data Portrait Research

Intel Higher Education Program, 2014

Hardware donation to support IoT curriculum

Grand NCE-AD Node, 2014

Automated systems for scanning human skeletons

Autodesk Research, 2014

Industry support for Automated systems for scanning human skeletons

OCADU Seed Grant, 2014

Support for the development of a NSERC Discovery Grant

Grand NCE-AD Node, 2012

FabNodes, a modular system for custom fabrication

Massive Software Inc., 2008–2010

Support for Agent based Design Systems through donated software licenses

Funded Research Assistants

Kourtoukov, Boris. 2014–2016

Funded by Living Life Analytics

Jones, Lee. 2015–2016

Funded by Living Life Analytics

Predko, Alanna. 2015

Funded by Living Life Analytics

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McCormack, Seamus. 2014
Funded by GRAND NCE

Oomajee, Vixen. 2014
Funded by GRAND NCE

Rodmore, Craig, 2014
Funded by OCADU Seed Grant

Tavasoli, Alex. 2014
Funded by OCADU Seed Grant

McRoberts, Greg. 2013
Funded by GRAND NCE

Pridham, Hudson. 2013
Funded by GRAND NCE

McHone, Ian. 2012
Funded by UK Seed Fund

Bakerjian, Anton. 2012
Funded by UK Seed Fund

Exhibitions

CodeX, Onsite Gallery, Toronto, Canada
January 2020

The Age of You, The Museum of Contemporary Art, Toronto, Canada
Curated by Hans Ulrich Obrist, Shumon Basar, and Douglas Coupland
Collaboration with Dennis Kavelman
September 2019

Taylor X, Stantec Gallery, Calgary, Canada
February 2018

Seoul Biennale of Architecture and Urbanism, Seoul, South Korea
Collaboration with Ibañez Kim Studio
August 2017

EDIT: Exhibition for Design, Innovation, and Technology, Unilever Factory, Toronto, Canada
Collaboration with Dennis Kavelman
September 2017

1000m2 of Desire, Centre de Cultura Contemporània de Barcelona, Barcelona, Spain
Collaboration with EcoLogic Studio
October 2016

Globale: Exo-Evolution Exhibition, ZKM Museum, Karlsruhe, Germany
Collaboration with EcoLogic Studio
October 2015

Re-Living the City, 2015 Bi-City Biennale of Urbanism & Architecture, Shenzhen China
December 2015

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EXPO 2015, Milan, Italy

Collaboration with EcoLogic Studio

April 2015

Archilab 2013: Naturalizing Architecture, FRAC Centre, Orleans, France

Collaboration with EcoLogic Studio

September 2013

MetaMatic Reloaded, Museum Tinguely, Basel, Switzerland

Commissioned by Marina Abramovic

October 2013

Luminato Festival, Toronto, Canada

MAI Prototype, commissioned by Marina Abramovic

June 2013

Luminato Festival, Pearson International Airport, Toronto, Canada

MAI Extension, commissioned by Marina Abramovic

June 2013

Magic Materials, The Science Gallery, Dublin, Ireland

September 2012

Taylor Series, Stantec Gallery, Calgary, Canada

February 2012

Juried Exhibition, ACADIA 2011, Calgary, Canada

Collaboration with EcoLogic Studio

November 2011

Smart Geometry, Copenhagen, Denmark

Collaboration with EcoLogic Studio

April 2011

Post Fact: Visualizing Information, Monterrey, Mexico

Collaboration with CHORA

January 2011

Hyperlinks: Architecture and Design, Art Institute of Chicago, Chicago, USA

Collaboration with Robofold

December 2010

New Faculty Exhibition, The Land of Tomorrow Gallery, Lexington, USA

November 2010

International Energy Efficiency in Building Expo, Xiamen, China

Collaboration with CHORA

June 2010

Laarman Lab, Friedman Benda Gallery, New York, USA

Collaboration with Robofold

March 2010

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Climate Incubator, Peter Behrens School of Architecture, Düsseldorf, Germany
Collaboration with CHORA
January 2010

Post-Oil Cities, IFA Gallery, Stuttgart, Germany
Collaboration with CHORA
October 2009

International Biennial of Contemporary Art of Seville, Seville, Spain
Collaboration with EcoLogic Studio
October 2008

PSP/RCA, The Bank of America, London, UK
February 2007

Venice Architecture Biennale, Venice, Italy
Collaboration with EcoLogic Studio
March 2006

PSP/RCA, The Royal College of Art, London, UK
November 2006

Machinic Prototypes, Beijing Architecture Biennial, Beijing, China
October 2004

Performative Architectures, Technical University Delft, Delft, Holland
April 2004

Invited Talks

Code & Space, University of Toronto, Toronto, Canada
November 2019

Undisciplined Methods, Lab Series, KPMB Architects, Toronto, Canada
November 2018

DIY meets PhD: A Methodology for the Design of Smart Materials, Institute of Advanced Architecture Catalonia, Barcelona, Spain
July 2013

Do Not Contact the Manufacturer: Chemical Programming for Smart Materials, Toronto Wearables Meetup, Toronto, Canada
March 2013

Bacteria, Polymer, and Grass: Responsive Material Systems, Design Matters Series, University of Calgary, Department of Architecture, Calgary, Canada
February 2012

Intelligent Systems, University of Arkansas Department of Computer Science, Fayetteville, USA
November 2011

AltN Research: recent work, W.I.P series, Smart Geometry 2011, Copenhagen, Denmark
April 2011

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Designing Intelligence, Graduate School of Design, Harvard University, Cambridge, USA
November 2010

Agent-Based Systems, XLab, SCI-Arc, Los Angeles, USA
May 2009

The Work of AltN Research, The DarkSide Club, 2008 Venice Architecture Biennale, Venice, Italy
August 2008

Digital Material, Hochbau Institute of Experimental Architecture, University of Innsbruck,
Innsbruck, Austria
April 2008

Hacking By Design, Tsinghua University, Beijing, China
June 2005

Conferences

Keynotes

Parallel Paths, Pathways to Practice, Waterloo University School of Architecture, Waterloo,
Canada
August 2018

Undisciplined: PuckettRanD, Smart Geometry, Toronto, Canada
April 2018

Undisciplined, Taylor X, Calgary, Canada
February 2018

Presentations

The Future of Interactive Video, nextMEDIA, Toronto, Canada
November 2016

DIY Smart Materials, Technarte 2014, Bilbao, Spain
May 2014

TalkShop, Smart Geometry 2012, Troy, USA
April 2012

CyberGarden v4, ACADIA 2011, Banff, Canada
October 2011

Regenerate, Technarte 2011, Bilbao, Spain
May 2011

Explorations of Agent-Based Simulation for Architectural Design, Symposium on Simulation for
Architecture and Urban Design, Orlando, USA
April 2010

Session Chairs

The Power of Data, Symposium on Simulation for Architecture and Urban Design, Orlando, USA
April 2010

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Workshops

Beyond Mechanics, Smart Geometry Conference, RPI, Rochester, USA
March 2012

Tracking as Design, Department of Environmental Design, The University of Calgary, Calgary, Canada
February 2012

Adaptive Components, Dept. Architecture / Dept. Computer Science, The University of Arkansas, Fayetteville, USA
November 2011

CyberGardens, Smart Geometry Conference, Copenhagen, Denmark
March 2011

Interactive Lighting Control, The Peter Behrens School of Architecture, Düsseldorf University, Düsseldorf, Germany
October 2009

Custom Controllers, XLab, SCI-Arc, Los Angeles, USA
April 2009

Agent Construction, The Design Research Lab, The Architectural Association, London, UK
September 2008

Component Scripting, XLab, SCI-Arc, Los Angeles, USA
April 2005

Publications

Puckett, Nick. "If Material is the New Software, then How do I Write it?"
Paradigms in Computing: Making, Machines, and Models for Design Agency in Architecture
Ed. Dr. David Jason Gerber & Mariana Ibañez
Los Angeles: Evolo Press, 2014. 288–297.

Puckett, Nick. "Designing Intelligence: DIY Robotics for Responsive Environments."
Inside Smart Geometry
Ed. Brady Peters & Terry Peters
London: Wiley, 2013. 176–185.

Puckett, Nick. "The Sideshow."
Fresh Punches: Experimental Architecture Exhibition Catalogue
Ed. Nathan Hume, Abigail Coover Hume & Paul Ruppert
CreateSpace Independent Publishing Platform, 2012. 106.

Puckett, Nick. "Material Animation: A New Interface to Custom Fabrication."
FABRICATE: Making Digital Architecture
Ed. Ruari Glynn & Bob Sheil
Cambridge: Riverside Architectural Press, 2011. 86–89.

Puckett, Nick, Claudia Pasquero, and Marco Poletto. "CyberGarden V4"
Integration Through Computation: Proceedings of the 31st Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA)
Ed. Joshua Taron

Nick Puckett

Puckett, Nick. "Explorations of Agent-Based Simulations for Architectural Design"
Proceedings of the Symposium on Simulation for Architecture and Urban Design
Ed. Azam Khan

Selected Press

Parlac, Vera. "Material as Mechanism in Agile Spaces," *Building Dynamics: Exploring Architecture of Change*. New York: Routledge, 2015. 181

Hobson, Ben. "EcoLogic Studio Transforms Cladding System into a Bioreactor." (May 01, 2015)
Dezeen

Collela, Federico. "Urban Algae Folly." (May 11, 2015)
PLOT

Laylin, Taflin. "Futuristic Urban Algae Folly grows food, fuel and shade" (June 02, 2015)
Inhabitat

Cruz, Marcos. "Urban Algae Folly. (May 28, 2015)
Synthetic Design Biotopes

Matchar, Emily. "Will Buildings of the Future be Cloaked in Algae?" (May 26, 2015)
Smithsonian.com

Hartman, Kate. "Heat Responsive Wearables Using Polymer"
Make: Wearable Electronics
New York: Maker Media, 2014

Pardey, Andres. "MAI Prototype."
Metamatic Reloaded
Berlin: Kehrer, 2013. 30-39

Pasquero, Claudia and Poletto, Marco. "The STEM Series"
Systemic Architecture
New York: Routledge, 2012

Ryan, Zoe. "Cooperative Design"
Hyperlinks
Cambridge: Yale University Press, 2010

Lenz, Iris. "Taiwan Strait Inkubator"
Arch+, edition 196/197, 2010

Verebes, Tom. "Young Punks"
DRL Ten: A Design Research Compendium
London: Architectural Association Press, 2008

Kuzyk, Raya. "On-Line with China"
Blueprint, September 2005