Nick Puckett

puckettrand.com

EDUCATION

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

Bachelor of Architecture, Cum Laude Honors, 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

Interim Program Chair, 2015–2016
Digital Futures Undergraduate Program

ACADEMIC EXPERIENCE

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

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

Codirector, 2012–present
AntHill Lab

The University of Kentucky, Lexington, USA
Assistant Professor, joint appointment, tenure track, 2009–2012
College of Design, School of Architecture
College of Engineering, School of Electrical and Computer Engineering

Core Faculty, 2010–2012
The Institute of Sustainable Manufacturing

Nick Puckett

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

Universität Innsbruck, Innsbruck, Austria
Visiting Faculty, 2007–2009
Institut für Experimentelle Architektur

The Royal College of Art, London, UK
Visiting Lecturer, 2004–2007
Department of Industrial Design Engineering

TEACHING

Graduate
OCAD University
DIGF–6037 Creation & Computation. Fall 2012–present

DIGF–6901 Thesis Stage 2, Experimentation & Development. Fall 2015

DIGF–6C03 Thesis Stage 1, Foundation & Industry. Summer 2013

DIGF–6C05 Thesis Stage 3, Production & Reflection. Winter 2013–2014

DIGF–6A04 Ubiquitous Computing. Fall 2012–2014

DIGF–6A03 Eglobal. Fall 2014

DIGF–6B14 Canadian Film Centre Media Lab, Prototyping. Summer 2013–2014

DIGF–6A13 BioArticulation. Fall 2013

Nick Puckett

University of Kentucky

ARC–599 Augmented Fabrication. Spring 2012

ARC–699 Sight Specific Response. Fall 2010

ARC–659 Graduate Design Studio. Spring 2010

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 Studio. 2005–2007

The Architectural Association

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

Undergraduate

OCAD University

DIGF-2002 Physical Computing. Fall 2021

DIGF-2010 Plugged-In, Internship Supervisor. Fall 2015–present

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

DIGF–2005 Atelier II, Collaboration. Winter 2016, Winter 2018–present

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, Winter 2020

University of Kentucky

ARC–457 4th year Design Studio. Spring 2011

The Architectural Association
First Year Studio. 2006–2009

Media Studies, Keyboards are Dead. 2006–2009

Media Studies, Mind & Matter. Fall 2008

The University of Westminster
Field Animation. Winter 2008, Winter 2009

Universität Innsbruck
Scripting Component Logic. 2007–2009

THESIS ADVISING

Primary
OCAD University

Frank Ferrao, *Break It 'til You Make It: Low-Cost Digital Project-Based Learning,* MDes 2020

April De Zen, *A Misinformation Blueprint: Mapping Warnings in an Agile Communication System,* MDes 2020

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

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

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

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

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

Jordan Shaw, *Habitual Instinct,* MDes 2017

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

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

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

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

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

Secondary
    OCAD University

Arshia Sobhan Sarbandi, *Navigating the Latent: Exploring the Potentials of Islamic Caligraphy with Generative Adversarial Networks, MDes 2021*

Maria Shirokova, *Can you hear your drawing? : Creating Synesthetic Experiences through an Audio-Visual Web Interaction,* MDes 2021

Jun Li, *Cybernetic Interaction: Exploring a New Form of Audience Participation,* MDes 2021

Mazin Chabayta, *Liberated Debris: Protest By Making,* MDes 2020

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

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

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

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

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

Ana Jofre, *Anthropomorphic Objects,* MFA 2015

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

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

UNIVERSITY SERVICE

Admissions & Recruitment
    OCAD University
University Admissions, Recruitment, and Retention Committee, 2021–present

Digital Futures Undergraduate Program, Admissions Committee, 2013–present

Digital Futures Graduate Program, Admissions Committee, 2013–present

Look Inside, University 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

Nick Puckett

Curriculum Development
OCAD University

Digital Learning Hub Advisory Committee, 2021–present

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 Program, 2016–2019

IQAP Committee, Digital Futures Graduate Program, 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 Art, 2019

Interaction Design Tenure Track Faculty, 2019

Canada Research Chair, Internet of Things, 2017

Digital Futures Graduate Sessional Instructors, 2015–present

Digital Futures Undergraduate Sessional Instructors, 2015–present

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

Nick Puckett

Faculty Senate
OCAD University

Faculty Senator, Faculty of Liberal Arts & Sciences, 2013–2015, 2016–2020

Senate Quality Assurance Committee, 2016–2020

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

PROFESSIONAL SERVICE

Journal Review
Peer Reviewer, ACADIA Special Issue, May 2021
International Journal of Architectural Computing

Conference Review
Peer Reviewer, Pictorials, October 2021
2022 Tangible, Embedded, and Embodied Interaction (TEI) Conference, Daejeon, Korea

Peer Reviewer, Technical Papers, April 2021
CAAD Futures 2021, Los Angeles, USA

Peer Reviewer, Pictorials, October 2020
2021 TEI Conference, Salzburg, Austria

Peer Reviewer, Technical Papers, September 2020
2020 ACADIA Conference, Online

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

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

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

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

Grant Review
Reviewer, Discovery Grant Program, November 2018
Natural Sciences and Engineering Research Council (NSERC), Canada

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

Competition Juror, October 2012
Robot Workshop Competition, SuckerPUNCH Daily

RESEARCH

Funding & Support
Technology Education Renewal Fund, 2021
Supports the purchase of two industrial robot arms and multiple PCB circuit printers

OCADU Seed Grant, 2021
Support for the development of Lidar Interaction System

Living Life Analytics, 2014–2017
Industry support of Data Portrait Research

Intel Higher Education Program, 2014
Hardware donation to support IOT curriculum

Autodesk Research with Smithsonian National Museum of Natural History, 2014
Industry support for automated systems for scanning human skeletons

Grand NCE-AD Node, 2014
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

Nick Puckett

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

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

BUILT WORKS

Air Bubble, in collaboration with ecoLogicStudio
United Nations Climate Change Conference, COP26 Green Zone, Glasgow, Scotland
November 2021

Pulse V2
CodeX, Onsite Gallery, Toronto, Canada,
January 2020

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

EDIT: Exhibition for Design, Innovation, and Technology, Unilever Factory, Toronto, Canada
September 2017

Facebook Canada, Toronto, Canada
March 2017

Nick Puckett

Strange Weather, in collaboration with Ibañez Kim Studio
Seoul Biennale of Architecture and Urbanism, Seoul, South Korea
August 2017

Urban Algae Folly, in collaboration with ecoLogicStudio
EXPO 2015, Milan, Italy
April 2015

METAfolly, in collaboration with ecoLogicStudio
1000m2 of Desire, Centre de Cultura Contemporània de Barcelona, Barcelona, Spain
October 2016

Globale: Exo–Evolution Exhibition, ZKM Museum, Karlsruhe, Germany
October 2015

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

Pulse V1
Re-Living the City, 2015 Bi-City Biennale of Urbanism & Architecture, Shenzhen, China
December 2015

MAI Responsive Broadcast, commissioned by Marina Abramovic
MetaMatic Reloaded, Museum Tinguely, Basel, Switzerland
October 2013

Luminato Festival, Toronto, Canada
June 2013

CyberGarden, in collaboration with ecoLogicStudio
Smart Geometry, Copenhagen, Denmark
April 2011

Xiamen Energy Masterplan, in collaboration with CHORA
International Energy Efficiency in Building Expo, Xiamen, China
June 2010

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

Post-Oil Cities, IFA Gallery, Stuttgart, Germany
October 2009

Robotic Chair Production, in collaboration with Robofold
Hyperlinks: Architecture and Design, Art Institute of Chicago, Chicago, USA
December 2010

Laarman Lab, Friedman Benda Gallery, New York, USA
March 2010

Nick Puckett

STEMcloud, in collaboration with ecoLogicStudio
International Biennial of Contemporary Art of Seville, Seville, Spain
October 2008

Cities, architecture and society, Venice Architecture Biennale, Venice, Italy
March 2006

Multiplayer Meshes, commisioned by Sony Entertainment Europe
PSP/RCA, The Bank of America, London, UK
February 2007

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

EXHIBITIONS

Taylor X, Stantec Gallery, Calgary, Canada
February 2018

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

Post Fact: Visualizing Information, Monterrey, Mexico
Collaboration with CHORA
January 2011

New Faculty Exhibition, Land of Tomorrow Gallery, Lexington, USA
November 2010

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

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

PUBLICATIONS

Puckett, Nick. "Pulse V2." *Distributed Proximities: Proceedings of the Conference of the Association for Computer Aided Design in Architecture (ACADIA), 2021.*

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, 2011.

Puckett, Nick. "Explorations of Agent–Based Simulations for Architectural Design." *Proceedings of the Symposium on Simulation for Architecture and Urban Design.* Ed. Azam Khan, 2010.

SELECTED PRESS

Fletcher, Laura. "COP26: Playground removes carbon emmisions from the air", November 11, 2021
BBC.com

Katsiikopoulou, Myrto, "ecoLogicStudio erects inflatable air-purifying eco-machine at COP26"
November 13, 2021
DesignBoom

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, Tafline. "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

Nick Puckett

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

INVITED TALKS

Lidar Interaction Methods, ITP Camp, New York University
June 2021

Technology & Sediment, University of Toronto, Daniels School of Architecture, Toronto, Canada
January 2021

Mixed Framerates, ITP Camp, New York University
June 2020

Code & Space, University of Toronto, Daniels School of Architecture, 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

Nick Puckett

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, Institut für Experimentelle Architektur,Universität 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

Projects
Pulse V2, Peer-Reviewed Projects, ACADIA 2020
November 2020

Presentations
Creation and Computation, Learning to Teach Creative Technologies Remotely, NYU
January 2021

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

Nick Puckett

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

WORKSHOPS

Shared Spaces Online, ITP Camp, New York University, NY, USA
June 2020

Multiscreen interfaces, ITP Camp, New York University, NY, USA
June 2018

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