

Yanni Alexander Loukissas

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Curriculum Vitae

Education

- 2008 **PhD, MIT**, Cambridge, MA
Design and Computation (concentration in Socio-Technical Studies)
- 2006 **Visiting Scholar, Cambridge University**, Cambridge, UK
Martin Centre for Architectural Research
- 2003 **Master of Science, MIT**, Cambridge, MA
Design and Computation
- 1999 **Bachelor of Architecture, Cornell University**, Ithaca, NY

Employment

- 2010–present **Postdoctoral Associate, MIT**, Cambridge, MA
Program in Science, Technology and Society
- 2006–2009 **Interaction Designer, Small Design Firm**, Cambridge, MA
Development of interactive, graphical applications for exhibitions and education,
including a permanent installation at the Metropolitan Museum of Art in NYC
- 2008-2010 **Visiting Lecturer, Cornell University**, Ithaca, NY
Department of Architecture
- 2004–2006 **Adjunct Faculty, School of the Museum of Fine Arts**, Boston, MA
Program in Sculpture
- 2003 **Graphics Analyst, Foster + Partners**, London, UK
Computational design research in an architectural, project-based setting
- 2000–2001 **Teaching Associate, Cornell University**, Ithaca, NY
Department of Architecture
- 1999–2000 **Project Designer, Sage and Coombe Architects**, New York, NY
Architectural design of residential, commercial, and cultural projects,
including the Isamu Noguchi Museum renovation
- 1999 **Project Assistant, Eisenman Architects**, New York, NY
Architectural and urban design for experimental projects and competitions, including
the city of culture of Galicia Santiago de Compostela (1st place)
and Manhattan's West Side competition (1st place)

Publications

- Book**
- 2012 Yanni Loukissas, *Co-Designers: Cultures of Computer Simulation in Architecture* (London: Routledge)
- Book Chapter**
- 2009 Yanni Loukissas, "Keepers of the Geometry," in *Simulation and its Discontents*. Sherry Turkle (ed.) (Cambridge: MIT Press)
- Journals and Proceedings**
- Forthcoming Yanni Loukissas and David Mindell, "Visual Apollo: A Graphical Exploration of Human-Machine Relationships."
- Forthcoming Yanni Loukissas, "Knowledge Under Fire." *Candide - Journal for Architectural Knowledge* 5.
- Forthcoming Yanni Loukissas and David Mindell, "A Visual Display of Socio-Technical Data." *ACM SIGCHI Conference Proceedings*.
- 2008 Yanni Loukissas, "Keepers of the Geometry." (Excerpt) in *Digital Critical Conference Proceedings*. (Cambridge: Harvard University)
- 2004 Yanni Loukissas and Larry Sass, "A Generative Approach to Modeling Architectural Designs Using a 3-D Printer." *ACADIA and AIA Fabrication Conference Proceedings*. (Toronto: University of Toronto)
- 2000 Yanni Loukissas, "Utica A-Z." *The Cornell Journal Of Architecture* 7 (Ithaca: Cornell University)
- Creative Scholarship**
- 2011 Yanni Loukissas, David Mindell, Francisco Alonso, "The Apollo 11 Lunar Landing Visualization," data visualization for the MIT 150th anniversary exhibit on exploration. Cambridge, MA.
- 2009 Yanni Loukissas and John Zissovici, "Angel Dust," original film for *Violence and the Cinematic City*, Film Studies symposium at Cornell University. Ithaca, NY.
- Theses**
- 2008 Yanni Loukissas, *Conceptions of Design in a Culture of Simulation: Sociotechnical Studies at Arup*. PhD Dissertation. (Cambridge: MIT)
Advisor: William Porter, Committee: Sherry Turkle, William Mitchell, Edith Ackermann
- 2003 Yanni Loukissas, *Rulebuilding. Exploring Design Worlds through End User Programming*. Master of Science Thesis (Cambridge: MIT) Advisors: William Porter and Larry Sass
- 1999 Yanni Loukissas, *Utica A-Z*. Bachelor of Architecture Thesis (Ithaca: Cornell University)
Advisors: Lily Chi and John Zissovici
- Popular Media**
- 1999–present *Popular Science, New York Times, Domus, Casabella, New York Magazine*
(A full list is available upon request)

Awards and Grants

- 2003-2008 Presidential Fellowship, MIT
- 2004-2005 Pre-doctoral Fellowship, National Science Foundation
- 2005 Travel Grant, Society for the Social Study of Science
- 2004 Research Grant "Design Tooling," Department of Architecture, MIT
- 2003 Master of Science Thesis Award, Department of Architecture, MIT

Research

- 2010–present **Member, Laboratory for Automation, Robotics, and Society**
PI David Mindell, MIT, Cambridge, MA
Development of data visualization tools for the study of human-machine relationships
- 2008–2010 **Co-Founder, Surface Cities**
with John Zissovici, Cornell University, Ithaca, NY
Interactive projects on the evolving digital image of the city: www.surfacecities.com
- 2004–2005 **NSF Predoctoral Fellow, Initiative on Technology and Self**
PI Sherry Turkle, MIT, Cambridge, MA
Comparative ethnographic studies of professional cultures in architecture, the life sciences, aviation, and nuclear weapons design
- 2004 **Co-Founder, Design Tooling**
with Stylianos Dritsas, Axel Kilian, and Una May O'Reilly, MIT, Cambridge, MA
Development of online tools to support education in computation for designers
- 2002–2003 **Research Assistant, Center for Bits and Atoms**
PI Larry Sass, MIT, Cambridge, MA
Development of means and methods for digital fabrication

Teaching Experience

- 2008–2010 **Visiting Lecturer, Cornell University, Ithaca, NY**
Department of Architecture
2010 Computational Thinking
2010 Processing Cities
2010 Undergraduate Design Studio
2009, 2010 Introduction to Digital Media
2009 Design Games
2008, 2009 Graduate Design Studio, with John Zissovici
2008, 2009 Graduate Theory Seminar
- 2004–2006 **Adjunct Faculty, School of the Museum of Fine Arts, Boston, MA**
Program in Sculpture
2004–2006 Digital Fabrication for Sculptors, with Ken Hruby
- 2002–2008 **Teaching Assistant, MIT, Cambridge, MA**
Department of Architecture
2008 Introduction to Design Computing, with Sotirios Kotsopoulos
2006 Computational Geometry for Design, with Dennis Sheldon
2005, 2006 Inquiry into Computation and Design, with Terry Knight
2003 Generative and Parametric Modeling for Design and Fabrication
with Terry Knight, Larry Sass, Axel Kilian and Carlos Barrios
2002 Graduate Design Studio, with Peter Testa
- 2000–2001 **Teaching Associate, Cornell University, Ithaca, NY**
Department of Architecture
2001 Undergraduate Design Studio, with Vincent Mulcahy
2000, 2001 Introduction to Architecture, with Vincent Mulcahy

Selected Papers and Presentations

- 2012 ACM SIGCHI Conference on Human Factors in Computing Systems, Austin, TX
Interactivity Exhibit with David Mindell, *A Visual Display of Socio-Technical Data*
- 2012 School of Informatics and Computing, Indiana University, Bloomington, IN
Invited Speaker, *A Visual Display of Socio-Technical Data*
- 2012 Communication Department, University of California, San Diego, CA
Invited Speaker, *Communication in Situ*
- 2011 Society for Social Studies of Science, Cleveland, OH
Paper Presentation, *The Visual Display of Sociotechnical Data*
- 2011 Harvard Berkman Center for Internet and Society, Cambridge, MA
Invited Speaker, *Visualizing Human Presence*
- 2011 Harvard Graduate School of Design, Cambridge, MA
Invited Speaker, *Translate, Rotate, Reflect*
- 2011 MIT History, Theory + Criticism of Art and Architecture, Cambridge, MA
Respondent, *Beyond the Author*
- 2010 TEDx Athens Youth Day, Athens, Greece
Keynote Speaker, *Translate, Rotate, Transform*
- 2010 INPUT_OUTPUT Symposium, Temple University, Philadelphia, PA
Keynote Speaker, *Moonscapes and City Scrapes*
- 2010 Society for Social Studies of Science, Tokyo, Japan
Paper Presentation, *Surface Cities*
- 2009 Cornell University Information Science Colloquium, Ithaca, NY
Invited Speaker, *Design as Computation*
- 2009 The Storefront for Art and Architecture, New York, NY
Presentation and Panel Discussion, *Material Feedback*
- 2009 Autodesk Headquarters, Boston, MA
Invited Lecture, *Keepers of the Geometry*
- 2009 Planning + Architecture Research Group, University of Michigan Ann Arbor, MI
Invited Speaker, *Conceptions of Design in a Culture of Simulation*
- 2009 MIT Department of Architecture Computation Lectures, Cambridge, MA
Invited Lecture, *Conceptions of Design in a Culture of Simulation*
- 2009 Society for Social Studies of Science, Washington, DC
Paper Presentation, *Spaces of Simulation*
- 2008 Digital Critical, Harvard University, Cambridge, MA
Paper Presentation, *Keepers of the Geometry*
- 2007 Society for Social Studies of Science, Pasadena, CA
Paper Presentation, *Building Simulation through a Socio-technical Lens*
- 2007 Manchester University, Department of Architecture, Manchester, UK
Invited Lecture, *Performance Discourse at Arup*
- 2007 Cambridge University, Martin Centre
Invited Lecture, *The Culture of Simulation in Building Design*
- 2005 Society for Social Studies of Science, Pasadena, CA
Paper Presentation, *Representations of the User in Geometric Modeling*
- 2005 Akademie Schloss Solitude, Stuttgart, Germany
Invited Lecture, *Practices of Learning, New Media in Architectural Offices*
- 2005 New York State University, Department of Architecture, Buffalo, NY
Invited Lecture, *Computational Design Workshop*
- 2004 ACADIA and AIA Fabrication Conference, Toronto, Canada
Paper Presentation with Larry Sass, *A Generative Approach to Modeling Architectural Designs Using a 3-D Printer*
- 2004 European Association for the Study of Science and Technology, Paris, France
Paper Presentation, *Relational Modeling in Architectural Education*

Academic Activities

Journals and Associations

2012 SIGGRAPH Art Papers. Reviewer
2011 ACSA Digital Aptitudes Conference. Reviewer
2010 *Technology and Human Values*, Reviewer
2010 *Footprint*, Delft School of Design Journal, Reviewer
2009 Creativity and Cognition Conference Series, Reviewer
2004-present Society for Social Studies of Science, Member
2004-2009 Association for Computer Aided Design in Architecture, Member

Cornell University, Department of Architecture, Ithaca, NY

2009-2010 Task Force Member: Media Arts, Core Curriculum, Technology, Visual Resources, Post-Professional Studies
2008-2010 Undergraduate and Graduate Thesis Advising
2008-2010 Undergraduate and Graduate Admissions

MIT, Department of Architecture Cambridge, MA

2004-2006 PhD Forum Organizer, Computation Group
2004-2005 Lecture Series Organizer, Computation Group
2002-2008 Leader, Design Group, MIT Initiative on Technology and Self
2006 PhD Student Representative, Design and Computation Faculty Search

Skills

Social Science Research Methods; Computer Programming (C++, Java, Python, Lisp, Visual Basic), Data Visualization, Basic Electronics, Computer Modeling (2D, 3D, Parametric, Animation), Video Production, Web Design, Digital Fabrication, Metalworking, Woodworking, Hand Drafting, and Sketching; Musical Instrument: Trombone; Foreign Language: Greek