Juhong Park Ph.D.
School of Architecture
University of Miami
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CURRENT POSITIONS

2014 - current Assistant Professor in Architecture and Urbanism, School of Architecture, University of Miami

2015 - current Coordinator, Master of Science in Architecture, Computation and Embedded Technology Program, School of Architecture, University of Miami

EDUCATION

2008 - 2015 Massachusetts Institute of Technology, Cambridge, MA
Ph.D. in Architecture, Department of Architecture
Major: Design and Computation, Minor: Education
Thesis title: *Synthetic tutor: profiling students and mass-customizing learning processes dynamically in design scripting education*.
Advisor: Takehiko Nagakura Ph.D., Associate Professor School of Architecture MIT (2010 - 15)
William J. Mitchell, Alexander W. Dreyfoos, Jr. Professor, Head of MIT Design Lab. & Smart Cities Lap. MIT Media Lab (2008 - 10)
Committee: Terry Knight Ph.D., Professor School of Architecture MIT
Tina Grotzer Ed.D., Associate Professor Harvard Graduate School of Education
Goerge Kocur Ph.D., Senior Lecturer College of Civil & Env. Engineering MIT

2001 - 2005 Harvard University Graduate School of Design, Cambridge, MA
Master in Architecture, Department of Architecture
James Templeton Kelly Thesis Prize Faculty Nomination
Thesis title: *Perceptual space design by manipulation of luminosity*
Advisor: D. Michelle Addington, Hines Professor of Sustainable Architectural Design, Yale School of Architecture

2004 Spring Swiss Federal Institute of Technology Zurich (ETH Zurich)
Department of Architecture, Exchange Program with Harvard University

2000 - 2001 Artphil Institute, Seoul, South Korea
Drawing, oil- and watercolor-painting, and sculpture, Non-degree Program

1993 - 1998 Hong-ik University School of Engineering, Seoul, South Korea
Bachelor of Engineering in Architecture, Dual Degree
Bachelor of Engineering in Electronic and Electrical Engineering

PROFESSIONAL EXPERIENCE

2008 Office for Metropolitan Architecture (OMA), Rotterdam, Netherlands
Architect
Conceptual Design for
Coolsingel Mixed Use Building Project, Rotterdam, Netherlands
Rhino Plug-in Development for design automation and digital fabrication

2007 Coop Himmelb(l)au, Vienna, Austria
Architectural Designer / Project Coordinator
Conceptual Design for International Architectural Design Competitions including:
Museum of Contemporary Art & Planning Exhibition, Shenzhen, China
Hotel at Adam Clark Square, Budapest, Hungary
Tower at Suk Al Thalath Al Gadeem, Tripoly, Libya
House of Music, Jutland, Denmark
Hanoi Municipal Office Complex, Hanoi, Vietnam
Eli and Edythe Broad Art Museum, Michigan, USA
Project Coordination and Design Development for
Busan Cinema Complex, Busan, South Korea

2006 Cline Bettridge Bernstein Lighting Design, New York, NY, USA
Architectural Lighting Designer

2006 The Bitzro Architectural Lighting Design, Seoul, South Korea.
Intern Lighting Designer

1998 - 2001 Seohan Construction & Engineering Co. LTD., Daegu, South Korea
Project Manager / Construction Engineer for
Seoul K.N.H.C Residential Complex Project (111,944 sqft, 25-stories, 5 residential buildings, and 3 row-rise commercial buildings, reinforced concrete frame construction) Feb. 1999 ~ Aug. 2001
Junior Project Manager / Construction Engineer for
Daegu Sungsan Middle School Project (21,743 sqft, 4-stories, reinforced concrete frame construction) Aug. 1998 ~ Feb. 1999

FUNDING EXPERIENCE

2016 August Rhode-Barbarigos, L. (PI) and Park, J. (Co-PI). *Active Tensegrity Structures for Space Applications*. NASA Florida Space Research Program ($21,742)

2013 May Avalon Travel Grant, School of Architecture and Planning. MIT ($600)

HONORS & EXHIBITIONS

2014 Exhibition, *SuperStudio, ARC 609 Upper Level Design Studio: Reframing Digital Design and Fabrication: Exoskeletal Houses,* the Miami Center for Architecture and Design

2010 Exhibition. *Hybrid Simulation* Machinic Processes: Architecture Biennale Beijing 2010 Oct. 15 ~ 31.Beijing, China

2009 Exhibition, MIT Mobile Experience Lab for *Interactive Electrochromic Window.* Milano Architecttura Design Edilizia Expo 2009 MIT Mobile Experience Lab. Feb. 4 ~ 5, Milano Italia

2008 Architectural Competition Finalist. Coop Himmelb(l)au for *Horizontal Sky* Project. At Khor Dubai. Wharfage. UAE

2007 Architectural Competition Winner. Coop Himmelb(l)au for *Museum of Contemporary Architecture & Planning*. Shenzhen. China

2007 Architectural Competition Finalist Coop Himmelb(l)au for *Hotel at Budapest* Project. Budapest. Hungary

2007 Architectural Competition Finalist. Coop Himmelb(l)au for *Eli and Edyth Broad Art Museum* Project. Lansing, Michigan, USA

2005 James Templeton Kelly Thesis Prize Faculty Nomination Harvard University GSD.

2005 StudioWorks Harvard University GSD. Selected Outstanding Graduation Thesis. Advisor: Prof. Michelle Addington

2003 StudioWorks Harvard University GSD. Selected Outstanding Student Works, Studio Instructor: Prof. Ron Witte

2002 StudioWorks Harvard University GSD. Selected Outstanding Student Works, Studio Instructor: Prof. Joe MacDonald

RESEARCH & PUBLICATION EXPERIENCE

2015 Finalist (one of five teams) *George R. Brown Convention Center Lighting Design Competition* ($1.3 Mil.). Houston. USA

2014 Park, J and Nagakura, T. A Thousand BIM: A rapid value-simulation approach to developing a BIM tool for supporting collaboration during schematic design. *International Journal of Architectural Computing.* Issue 1, Vol. 12.

2013 Park, J. Programming Sketches: a bricolage approach to teaching computer programming in design education. *The 2nd International Conference for Design Education Researchers*. Oslo. Norway

2013 Park, J and Nagakura, T., A Thousand BIM: A rapid value-simulation approach to developing a BIM tool for supporting collaboration during schematic design. *Computer Aided Architectural Design Research in Asia Conference* (18th: 2013: Singapore)

2012 Goulthrope, M. and Park, J. *HypoSurface.* Electric Version. Detail Design and Development

2010 Telhan, O., Casalegno, F., Park, J., Kotsopoulos, S., & Yu, C. Interaction Design with Building Façade Presented at *the TEI'10 Fourth International Conference on Tangible, Embedded, and Embodied Interaction*. MA, USA

Working Project

2017 Park, J. *Computational Design Thinking with UML and Python* (320-page, book)

TEACHING EXPERIENCE

School of Architecture University of Miami

2017 Spring ARC 363 Environmental Building Systems II: Lighting and Acoustics (UG)
ARC 609 Upper Level Design Studio: Embedded Medical Furniture (G/UG)
Co-teaching with Prof. Deborah Franqui

2016 Fall ARC 585 Making without Boundaries: Mathematical Arts (G/UG)
ARC 663 Environmental Building Systems II: Lighting and Acoustics (G)

2016 Spring ARC 585 Making without Boundaries: Bio-inspired Furniture Making (G/UG, in collaboration with a furniture making course by Prof. Matheson Austin)
ARC 363 Environmental Building Systems II: Lighting and Acoustics (UG)

2015 Fall ARC 609 Upper Level Design Studio: Embedded Medical Furniture (G/UG)
Donnie Garcia (a studio student) received the Upper Level Design Award
ARC 663 Environmental Building Systems II: Lighting and Acoustics (G)

2015 Summer ARC 609 Upper Level Architectural Design Studio: Assistive Technology (G/UG, newly developed course)

2015 Spring ARC 610 Architecture Degree Design Project (Master of Architecture Thesis, co-teaching with Prof. Elizabeth Plater-Zyberk and Prof. Veruska Vasconez)
ARC 363 Environmental Building Systems II: Lighting and Acoustics (UG)

2015 Fall ARC 586 Digital Design and Fabrication (UG/G, newly developed course)

2015 Fall ARC 563 Environmental Building Systems II: Lighting and Acoustics (G, newly developed course)

2014 Summer ARC 609 Upper Level Architectural Design Studio: Miami Eco-scape (G/UG, newly developed course in collaboration with Prof. Eric Firley)

2014 Spring ARC 609 Upper Level Architectural Design Studio: Reframing Digital Design and Fabrication - Exoskeletal Houses (G/UG, newly developed course)

Massachusetts Institute of Technology

2012 Fall	4.553 Programming Sketches: Designing Nature. Instructor (G/UG)
2012 Spring	4.554 Programming Conceptions. Instructor (G/UG)
2011 Fall	4.553 Programming Sketches. Instructor (G/UG, newly developed course)
2011 Spring	4.502/564 Design Scripting. Teaching Assistant for Prof. Takehiko Nagakura
2010 Fall	4.503/562 Advanced Visualization. Teaching Assistant for Prof. Takehiko Nagakura
2010 Spring	4.502/564 Design Scripting. Teaching Assistant for Prof. Takehiko Nagakura
2009 Fall	4.560 Geometric Modeling. Teaching Assistant for Prof. Takehiko Nagakura
2009 Spring	MAS.551J Design Without Boundaries. Course Collaborator for Prof. William Mitchell and Director Federico Casalegno. MIT Media Lab. School of Architecture and Planning

LECTURE, PRESENTATION, AND REVIEW EXPERIENCE

2016	Technical Program Committee, *2017 2nd International Conference on Information in Business and Technology Management*. January 17-19, 2017, Penang, Malaysia.
2016	Program Committee, *The 6th International Conference on the Internet of Things (IoT 2016).* November 7-9, 2016, Stuttgart, Germany.
2016	Presentation, *Human-Building Interaction: Human-Centered Building Energy Optimization*, International Energy Agency Energy in Building and Communities (IEA-EBC) Annex 60, College of Engineering, University of Miami
2016	Presentation, *Human-Machine Collaboration*, World Information Architecture Day 2016, School of Communication, University of Miami
2015	Lecture, *Computational Design*, Department of Computer Science, College of Arts and Sciences University of Miami
2015	Master of Urban Design Thesis Review Critique, School of Architecture University of Miami
2014	Lecture, *Interactive Architecture*, Department of Interactive Media, School of Communication University of Miami
2014	Lecture, *Design* | *Machine* | *Learning*, School of Architecture University of Miami.
2014	Keynote Speech, *Places and Spaces: Capstone Visualization Lecture.* School of Architecture
2012	Final and Mid-term Review Critique, Architectural Design Studio, Boston Architectural College
2010	Conference Presentation, *Simulation Studies for Connected Sustainable Architecture*, *2nd International Conference on Computational Sustainability.* June 28-30, Massachusetts Institute of Technology, Cambridge
2004	Final Review Critique, Career Discovery Design Studio, Harvard University Graduate School of Design

SERVICE AND ADMINISTRATIVE EXPERIENCE

2016 Oct. 31 - Nov. 3	Revit and 3DS Max Modeling and Rendering Workshop, School of Architecture University of Miami
2015 - current	Master of Science in Architecture, Concentration in Healthcare Design, School of Architecture University of Miami, Advisory Board Member
2015 - current	Master of Science in Architecture, Concentration in Computational and Embedded Technology Program, School of Architecture University of Miami, Coordinator
2015 - current	University of Miami Academic Computing Advisory Committee
2015 - current	School of Architecture University of Miami, Computing Committee
2015 - current	The School of Architecture University of Miami, Website Committee
2015 - current	Master of Architecture and Master of Science in Architecture, Admission Committee
2015 Nov. 18	Rendering Workshop II - Advanced, School of Architecture University of Miami
2015 Nov. 11	Rendering Workshop I - Introduction, School of Architecture University of Miami

2015 April, 16	Rendering Workshop II - Advanced, School of Architecture University of Miami
2015 April, 9	Rendering Workshop I - Introduction, School of Architecture University of Miami
2014 - current	University of Miami The Center for Computational Science (CCS) Fellow Steering Committee
2014 - current	Digital Design Workshops School of Architecture University of Miami, Organizer: Supporting students and faculty members regarding their digital design and fabrication projects by individual consulting and making online tutorials for 3D modeling, rendering, and digital fabrication (3D Printing and CNC Milling).
2014 Dec. 4	Rendering Workshop II - Advanced, School of Architecture University of Miami
2014 Nov. 20	Rendering Workshop I - Introduction, School of Architecture University of Miami
2014 April. 5	Google Sketch Up Workshop, School of Architecture University of Miami
2014 Mar. 29	Rhino 3D Workshop, School of Architecture University of Miami
2014 Mar. 22	Autodesk 3DS Max Workshop, School of Architecture University of Miami
2014 Mar. 1	Autodesk Revit Workshop, School of Architecture University of Miami

Thesis Advise	**University of Miami**
2016 – current	Amar Oloui (Ph.D Candidate, Civil Engineering) Zhengrong Hu (M.S.Arch), Samantha Morel (M.S. Arch. Eng.) Clarisse Lopez (B.Arch)
2016	Haochi Chang and Junya Huang (M.Arch) Ariela Cassinelli (M.S.Arch)
2015	Jenerra Albert, William Babey, Tianchi Ding, Yeszhan Duisebay, Shushanik Ghazaryan, Sansheng Gu, James Harris, Brenna Johnson, Yi Johnson, Ekaterina Koroleva, Yihan Liu, Emma May, Yue Pan, Shalinie Persaud, Adam Raiffe, Elena Roth, Angelica Tavarez, Benjamin Winship, Hiwot Woudeneh, Xuwen Xing, Ge Yang, and Bowen Zhang (M.Arch)

SKILLS

Programming	Java, C, C++, C#, VB6, VB.NET, Python, Processing, Rhinoscript, MaxScript, MEL(Maya Embedded Language), Grasshopper
Database	Hadoop, R, PHP, SQL/MySQL
Hardware	Eagle, AVR, Microcontroller, Arduino, G-Programming Language
CAD/CAM	Revit, Vasari, Rhinoceros, 3DS Max, AutoCad, Ecotect, Inventor, Solidworks, Catia, Digital Project, Sketch Up, Maya
Graphic/Web	Flash, Dreamweaver, Photoshop, Illustrator, CorelDraw, InDesign

PROFESIONAL REGISTRATION

2009	LEED Accredited Professional. No. 10434040. USA
1998	Architectural Engineer. No. 98202010531G. Licensed in South Korea
1998	Electrical Engineer Fire Protection. No. 98207040844S. Licensed in South Korea

PERSONAL ACTIVITES

1995 - current	Independent Cello Practice
2004	Zurich Evangelische Reformierte Kirchgemeind Choir, Cello, Zurich, Switzerland
1993 - 1998	Swimming Club Member, Hongik University, Seoul
1995	Hongik University Amateur Orchestra Member, Cello, Hongik University, Seoul