

# Hyoungh-June Park, MArch, MS, PhD

Associate Professor  
School of Architecture + University of Hawai'i at Manoa

2410 Campus Road/ Room 301H / Honolulu / HI 96822  
Email: hjpark@hawaii.edu / TEL: 808 956 8707

## EDUCATION

- Apr., 2005      **Ph. D. in Architecture**, University of Michigan, Ann Arbor, MI  
*Dissertation: A Quantification of Proportionality Aesthetics in Morphological Design*
- Jun., 1997      **Master of Science in Architecture Studies concentrated on Design & Computation**  
Massachusetts Institute of Technology, Cambridge, MA  
*Thesis: Formalization, Data Abstraction, and Communication*  
Graduated with MIT Compton Award
- Apr., 1995      **Master of Architecture in Design**, University of Michigan, Ann Arbor, MI  
Graduated with AIA Alumni Society Award for Distinguished Design

## ADMINISTRATION EXPERIENCE

- Aug., 2017-  
Present      **Director of Graduate Programs,**  
**School of Architecture, University of Hawai'i at Manoa**
- Jan., 2014-  
July, 2015      **Chair of Undergraduate Program,**  
**School of Architecture, University of Hawai'i at Manoa**
- 2011 - 2013      **Chair of NAAB Preparation Committee,**  
**School of Architecture, University of Hawai'i at Manoa**  
Led the school's preparation for successful 2012 NAAB Accreditation visit and the school achieved a full six year term of accreditation

## TEACHING EXPERIENCE

- Aug., 2013  
- present      **Associate Professor, School of Architecture, University of Hawai'i at Manoa**  
Teaches Core CAAD courses, Design Studios, Advanced Elective Courses, and Doctoral Student Advising.
- Aug., 2006  
- Jul., 2013      **Assistant Professor, School of Architecture, University of Hawai'i at Manoa**

## RESEARCH EXPERIENCE

- Sep., 2013  
-Present      **Co-Director of Design Futures Lab.**
- Sep., 2012  
-Present      **Principal Investigator, Samkoo Hawaii, LLC.**  
Investigates "The Optimization of a Smart Building Design and Its Management Solutions on View of Cost Effectiveness for Building Users" supported by Extramural Research Fund Award from Samkoo Hawaii, LLC.

- Sep., 2012  
-Present      **Co-Principal Investigator, University of Hawai'i**  
Explores "Development of a Futures Scenario Based Computational Model for Design Planning" supported by "Technology, Innovation, and Society (TIS)" Research Award , University of Hawaii
- Aug., 2009  
-Present      **Principal Investigator, University of Hawaii**  
Develops a performance-oriented design process in the design of Intelligent Kinetic Skins for Sustainable Architecture
- Aug., 2009  
- Aug., 2010      **Co-Investigator, University of Hawaii**  
Developed & submitted **2011 Solar Decathlon Design Project** supported by US Department of Energy
- May, 2009  
-May, 2010      **Co-Investigator, Graduate School of Culture Technology, KAIST**  
Developed **VECSiD** (Visual Exploration of Cultural Study in Design) project for a comparative pattern study between Spain and Korea
- Dec., 2007  
- May, 2009      **Principal Investigator, University of Hawai'i**  
Develops a method of mass-customization in the design of 4,000 bus stops in Honolulu. supported by University of Hawai'i Research Relations Fund
- Dec., 2007  
- May, 2009      **Principal Investigator, University of Hawai'i**  
Explores Morphological Transformations of Body Movements with Genetic Algorithms in the design of a kinetic structure, supported by special fund for innovative scholarship and creative work from University Research Council at University of Hawaii

#### SELECTED PEER REVIEWED PUBLICATIONS

- 2017      **Park H-J**. 2017. Ratios from the Intersections of 10 + 1 Proportionalities. *Nexus Network Journal* **19**(1): 145 – 154.
- 2016      **Park, H-J** and Kassa, B., 2016. A Tale of Two Cities: A Cost-driven Design Optimization in Addis Ababa & Honolulu. *Proceedings of the 21st International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2016)* / Melbourne, Australia. 23-32
- 2014      **Park, H-J**, Yeh, R., and Ahlers, R. 2014. A FUTURE SCENARIOS BASED COMPUTATIONAL FRAMEWORK FOR CAMPUS PLANNING. *Proceedings of the 19th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2014)* / Kyoto, Japan. 419-428
- Park, H-J**, and Chen, J. 2014. A COST-DRIVEN DESIGN OPTIMIZATION FRAMEWORK. *Proceedings of the 19th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2014)* / Kyoto, Japan. 957-958
- 2013      Lee J-H, **Park H-J**, Lim S, Kim S-J. 2013. A formal approach to the study of the evolution and commonality of patterns. *Environment and Planning B: Planning and Design* **40**(1) 23 – 42.
- Suh, Junghwa K. and **H-J Park** .2013. Daylighting as a Synthesis Tool in the Early Stage of an Urban-Scape Design. *Proceedings of the 18th International Conference on*

- Computer-Aided Architectural Design Research in Asia (CAADRIA 2013)* / Singapore, 189-198
- 2012 Kato, K., and **Park, H-J** “Toward a Performance-oriented Architecture: An integrated design approach to a real time responsive structure,” selected as Best Paper Award at *2012 Computer Aided Architecture Design Research in Asia (CAADRIA)*. Chennai, India, 59 – 68.
- 2011 **Park, H-J**, and Burry, J. (eds) *2011 International Journal of Architectural Computing (IJAC)* -“New Frontier.” Volume 9, Number 1.
- Park, H-J**. 2011. A Parametric Design Strategy for 4,000 Bus Stops. *CAAD Futures 2011 [Proceedings of the 14th Biennial International Conference on Computer Aided Architectural Design Futures]*. Liege, Belgium. 265-278.
- Kim, J-W, and **Park, H-J**. 2011. Design of a transformable disaster shelter with the computational implementation of Korean joinery system. *The Proceedings of 2011 Computer Aided Architecture Design Research in Asia (CAADRIA)*, New Castle, Australia. 61-70.
- 2010 **Park, H.J.** and Park, Y.K. 2010. Revitalization of Environmental Sustainability hidden in Yeongyeongdang. *Journal of Asian Architecture and Building Engineering (JAABE)* Vol.9 No.2 November 2010, 291-298.
- Park, H.-J.** and J.-H. Lee. 2010. Exploring Integrated Design Strategies for the Optimal Use of BIM. *Architectural Research* Vol.12, No.2, *Architectural Institute of Korea*. 9-14.
- Dave, B., Li, A. I., Gu, N., and **Park, H.-J.** (eds.): *New Frontiers: Proceedings of the 15th International Conference on Computer-Aided Architectural Design Research in Asia CAADRIA 2010*, Association for Research in Computer-Aided Architectural Research in Asia (CAADRIA).
- Chellappa, J. and **Park, H.J.**, 2010. BIM + HEALTHCARE: On the view of the renovation of a primary healthcare project. *CAADRIA 2010 [Proceedings of the 15th International Conference on Computer Aided Architectural Design Research in Asia]*. Hong Kong. 293-302
- 2009 **Park, H.J.** , 2009. BODY + SPACE: Exploring Morphological Transformations of Body Movements in the Design of a Transformable Structure. *CAADRIA 2009 [Proceedings of the 14th International Conference on Computer Aided Architectural Design Research in Asia]* Yunlin, Taiwan. 85-92
- 2008 **Park, H.J.** , 2008, Parametric Variations of Palladio’s Villa Rotonda. *International Journal of Architectural Computing*. Issue 02, Volume 06, 145-169
- Park, H.J.** ,2008. EVOLUTION + BIM: The Utilization of Building Information Modelling at an Early Design Stage. *CAADRIA 2008 [Proceedings of the 13th Conference on Computer Aided Architectural Design Research in Asia]* Chiang Mai (Thailand) . 552-559

## INVITED PUBLICATIONS

- 2016 ~ Present **Park, H.J.**  
“Artificial Intelligence”. Urban Design Focus: 2017.6 (Seoul, Korea)  
“Urban Resilience”. “Urban Design Focus: 2017.4 (Seoul, Korea)  
“Mapping Futures(s)”. Urban Design Focus: 2017.2 (Seoul, Korea)  
“Liquidation I”. Urban Design Focus: 2016.12 (Seoul, Korea)  
“Technology & City”. Urban Design Focus: 2016.10 (Seoul, Korea)

## AWARDS, HONORS, AND PATENT

- 2014 **Board of Regent’s Medal for Excellence in Teaching**, University of Hawaii  
2014 **Travel Grant**, University Research Council (URC), University of Hawaii at Manoa,  
2012 **Best Paper Award** at 2012 CAADRIA Conference at Chennai, India  
(Co-authored with Kody Kato)  
2012 **“Technology, Innovation, and Society” Grant Award**, University of Hawaii at Manoa,  
Honolulu  
2012 **Patent Pending**: Provisional Patent Application 61/687,400 titled “System and Method  
for Performance-Oriented Architecture (Co-inventor with Kody Kato)  
2012 **Elmer E. Botsai Professional Practice and Research Award (\$3,500)**, School of  
Architecture, University of Hawaii at Manoa, Honolulu  
2011 **Travel Grant**, University Research Council (URC), University of Hawaii at Manoa,  
2009 **Travel Grant**, URC, University of Hawaii at Manoa, 2009  
2007 **University of Hawai’i Research Relations Fund Award**, University of Hawaii at  
Manoa, Honolulu  
2007 **Special fund for innovative scholarship and creative work**, University of Hawaii at  
Manoa, Honolulu

## INVITED PRESENTATION

- 2016 **Park, H.J.** “Oh Ye of Little Faith,” Seoul Biennale of Architecture and Urbanism, May 9,  
2016.  
2009 **Park, H.J.** and Garcia, A., “BODY+SPACE,” Pecha Kucha Night 7.0 in Honolulu,  
December 11, 2009. The footage of the interview in the event can be found at  
<http://vimeo.com/8458375>.  
2009 **Park, H.J.** VECSiD (Visual Exploration of Cultural Style in Design) Workshop held in  
KAIST, Korea from September 24 ~ 25 as a co-investigator, 2009  
2008 **Park, H.J.** “Alberti’s Dream - Current Trend in Digital Architecture,” at University of  
Seoul, Seoul, Korea, March 26, 2008  
2007 **Park, H.J.** Panel presentation for “Digital technology in architecture and its future”  
session in the 7th International Symposium on Asia Pacific Architecture at the University  
of Hawaii, June 13 ~16, 2007.

## WORKSHOP PARTICIPATION

2009 Generative Component Workshop supported by Bentley System on October 2, 2008.

## EDITOR, PAPER REVIEWER AND INTERNATIONAL CONERENCE COMMITTEE

- 2009~ Present **International Review Committee**, Computer Aided Architectural Design Research in Asia (CAADRIA)
- 2017 **Scientific Committee** – International Paper Review Panel (invited), 2017 ECAADE (Education and research in Computer Aided Architectural Design in Europe) at Rome, Italy
- 2017 **Paper Reviewer, Nexus Network Journal** (Architecture and Mathematics)
- 2017 **Paper Reviewer, IASDR** (International Association of and Societies of Design Research) conference to be held on October 31 – November 3, 2017 at University of Cincinnati, Cincinnati, USA
- 2015 **Scientific Committee** – International Paper Review Panel (invited), CAAD Futures 2015 at MASP, Sao Paulo, Brazil
- 2013 **Scientific Committee** – International Paper Review Panel (invited), CAAD Futures 2013 at Tongji University, Shanghai, China
- 2012 **Paper Reviewer, PRACTICAL BIM 2012 Conference**, University of Southern California, Los Angeles
- 2011 **Paper Reviewer, IASDR** (International Association of and Societies of Design Research) conference to be held on October 31 – November 4, 2011 at TU Delft, Delft, Netherlands
- 2011 **Co-Editor, International Journal of Architectural Computing (IJAC)**
- 2009 ~ 2010 **Co-Editor, The Proceedings of 15th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA)**, Hong Kong, April, 2010
- 2010 **Paper Reviewer, ASME 2010 International Design Engineering Technical Conferences (IDETC) and Computers and Information in Engineering Conference (CIE)**, Montreal, April, 2010
- 2009 ~ 2010 **Paper Selection Committee**, Association for Computer Aided Design in Architecture (CAADRIA), 2009 ~ 2010
- 2009 **Paper Reviewer, IASDR** (International Association of and Societies of Design Research) conference held on 18-22 October, 2009 in Seoul, Korea
- 2008 **Paper Reviewer**, Korean Studies, International journal of Center for Korean Studies at University of Hawaii at Manoa.

## DOCTORAL STUDENT ADVISING

### Committee Chair

- Molina, Kalani, "A Computational Application of Urban Network Analysis on Walkability in Design Decision Making," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2017)
- Nishimoto, Maile, "A Design Methodology for Early Education Facility Prototypes in Hawaii," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2017)
- Simafranca, Christian, "Decision Support System for Development of Current and future Accessory Dwelling Units: A Bottom-Up Approach to Affordable Housing ,," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2017)
- Morimoto, Michelle, "Music of Architecture: Notes on Experiencing the Convergence Between Music and the Built Environment," Chair: Hyoung-June Park (Doctor of Architecture awarded in December, 2016)
- Ahlers, Rebecca, "A Method of Adaptive Reuse Site Preselection," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2015)
- Cravalho, Nainoa, "Revitalization of Dead Space Through the Usage of Interactive Interventions," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2015)
- Suh, Jungwha, "Daylighting in Building Patterns of Urban-scape," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2013)
- Casa, Bewketu, "A Computational Approach to Large-scale Housing Development: Design Optimization of Low-cost Housing for Urban Ethiopia," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2013)
- Peterson, Ty, "Architectural Rendering: Fundamental Principles of Digital Image Presentation," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2012)
- Chung, Kyungjoon, "Adaptive Biodynamics in Architecture: Design of a prototype for an immersive sun shading system ,," Chair: Hyoung-June Park (Doctor of Architecture awarded in December, 2011)
- Kato, Kody, "Toward a Performance-Oriented Architecture: An integrated design approach to a real time responsive structure," Chair: Hyoung-June Park (Doctor of Architecture awarded in December, 2011)
- Garcia, Ardison, "Sound Aesthetic: A Form of Narrative," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2011)
- Kim, Jason, "APPLICATION OF DIGITAL CATALOG USING PARAMETRIC MODIFICATION: Morphological variations in design through the traditional Korean joinery ,," Chair: Hyoung-June Park (Doctor of Architecture awarded in December, 2010)
- Chellappa, Jennifer, "BIM + Healthcare - Utilizing Building Information Modeling in Healthcare Design," Chair: Hyoung-June Park (Doctor of Architecture awarded in December, 2009)

Park, Young-Kyu, "Revitalization of environmental sustainability hidden in the 19th century traditional Korean residence, Yeongyeongdang ," Chair: Hyoung-June Park (Doctor of Architecture awarded in May, 2008)

## **Committee**

Niimoto, James, "Space and the Physical Environment through Paper Folding," Degree Awarded in spring 2011, Chair: Spencer Leineweber, Committee: Hyoung-June Park

Fu, Yishan "Movement+Efficient+Quality Space," Degree Awarded in spring 2011, Chair: Amy Anderson, Committee: Hyoung-June Park

Nip, Joyce "The Remaking of a Community Center," Degree Awarded in spring 2011, Chair: Pu Miao, Committee: Hyoung-June Park

Maly, Alex, "Mutable Objects, Spatial Manipulation, And Performance Optimization," Degree Awarded in fall 2010, Chair: Amy Anderson, Committee: Hyoung-June Park

Chung, Kanoa, "(Re)Defining and (Re)Constructing the Social Parametric of the Hawaiian Home: A Culturally Sustainable Community Housing Initiative" Degree Awarded in summer 2009, Chair: Amy Anderson, Committee: Hyoung-June Park

## **SERVICE**

### **Department**

2016 ~ Present **Chair of Architecture Faculty Senate**, School of Architecture (SoA)  
**Scholarship Committee** – School of Architecture (SoA)  
**School Policy Committee** – School of Architecture (SoA)

2013 ~ 2015

2016 ~ Present **Architecture Personal Committee (APC)** – School of Architecture (SoA)

2007 ~ present **Portfolio Review Committee**, School of Architecture (SoA)

2015 ~ Present **Teaching Excellence Convener** – School of Architecture (SoA)

2011 ~ 2013 **Secretary of Faculty Senate**, School of Architecture (SoA)

2010 ~ present **NAAB Preparation Committee**, School of Architecture (SoA)

2011 ~ present **Strategic Planning Committee, Lecture Committee, and SoA Journal Committee**, School of Architecture (SoA)

2010 ~ 2011 **SoA Journal Committee, All-School Charette Committee, and Portfolio Review Committee**, School of Architecture (SoA)

2009 ~ 2010 **Curriculum Committee**, School of Architecture (SoA)

**Global Programs Committee**, School of Architecture (SoA)

2007 ~ 2009 **Digital Design and Fabrication Committee**, School of Architecture (SoA)

**Faculty Research Committee**, School of Architecture (SoA)

### **University**

2011 ~ 2013 **Manoa Faculty Senate** – University of Hawaii at Manoa (UHM)

2016 ~ Present

- 2016 ~ Present    **Committee of Administration and Budget (CAB)** – University of Hawaii at Manoa (UHM)  
**Graduate Council** – University of Hawaii at Manoa (UHM)  
**All Campus Council of Faculty Senate Chairs (ACCFSC)** - University of Hawaii System
- 2012 ~ 2014      **Committee on Research and Graduate Education (CORGE)** – University of Hawaii at Manoa (UHM)
- 2013 ~ Present    **Member**, Center for Korean Study (CKS), University of Hawaii at Manoa (UHM)  
2008 ~ 2013      **Associate Member**, Center for Korean Study (CKS)

**Community**

- 2013~ Present    **Affordable Housing Think Tank** – Senator Suzanne Chun Oakland, Hawaii

**MEMBERSHIPS/ AFFILIATIONS**

- Associate Member of the American Institute of Architects (**Associate AIA**)
- Association of College Schools of Architecture (**ACSA**)
- Association of Computer-Aided Architectural Design Research in Asia (**CAADRIA**)

**SKILLS**

- Scripting:** Maya Embedded Language (MEL), GRASSHOPPER, PROCESSING, Action Script for Flash MX, Q Script for QuickTime, SMIL, XML, HTML, JavaScript
- Building Information Modeling:** Autodesk Revit 8~2017, Archicad 10
- Programming Language:** LISP, AutoLISP, Java, C and C++, MATLAB
- 3D Modeling:** Maya, Rhinoceros 3D, 3D MAX, AutoCAD 12 - 2010, Solidworks, Sketch-up, Form Z,
- Interactive Multimedia:** FinalCut Pro, Flash 3 ~ Flash MX 2004 Professional
- Computation & Statistics :** MATLAB, SPSS
- Image Processing:** Photoshop 5-CS6, Illustrator 8-CS6, Freehand 8-9, Quirkexpress
- VRML:** Inventor, Open GL