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Architecture and Built Environment
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Qualifications

Architecture, PhD
1 Sept 2014 → 31 Dec 2099
Award Date: 1 Sept 2014
1 Aug 2015 → ... Fellow (FHEA), Higher Education Academy (HEA)

Employment

Associate Professor
Architecture and Built Environment
Northumbria University
1 Sept 2014 → present

Research outputs

Finding Generative Rules in Settlements and Houses by Means of an Ideographic Language
Seo, K. W., 1 Jun 2023, In: Nexus Network Journal. 25, 2, p. 367-385 19 p.

The Perception of Urban Regeneration by Stakeholders: A Case Study of the Student Village Design Project in Korea
Kim, J. Y., Kim, J. H. & Seo, K. W., 14 Feb 2023, In: Buildings. 13, 2, 16 p., 516.

Fine-grained parallelism for post-pandemic cities: 12 design strategies for resilient urban planning
Seo, K. W., 29 Sept 2022, In: Planning Malaysia. 20, 3, p. 37-49 13 p.

Children's route choice behaviour: Comparing the actual and metric shortest routes for active school travel
Michail, N., Ozbil Torun, A., Parnell, R. & Seo, K. W., 12 Aug 2022, *Proceedings of the 13th International Space Syntax Symposium 2022*. van Nes, A. (ed.). p. 1-23

Measuring the Cognitive Dimension of Space Integrating the user's perception in the syntactic analysis of a house
Seo, K. W. & Kigawa, T., 20 Jun 2022, *Proceedings 13th International Space Syntax Symposium, SSS 2022*. van Nes, A. & de Koning, R. E. (eds.). Bergen, Norway: Western Norway University of Applied Sciences (HVL), 15 p. 364

Relocating home activities: spatial experiments in Malaysian apartment houses to accommodate the vernacular lifestyle
Seo, K. W., Ghani, M. Z. A. & Sarkom, Y., 4 Mar 2022, In: Journal of Asian Architecture and Building Engineering. 21, 2, p. 311-325 15 p.

Propositions for a Resilient, Post-COVID-19 Future for the AEC Industry
Nassereddine, H., Seo, K. W., Rybkowski, Z., Schranz, C. & Urban, H., 8 Jul 2021, In: Frontiers in Built Environment. 7, p. 1-16 16 p.

Determinant factors of pedestrian volume in different land-use zones: Combining space syntax metrics with GIS-based built-environment measures
Lee, S., Yoo, C. & Seo, K. W., 19 Oct 2020, In: Sustainability (Switzerland). 12, 20, 15 p., 8647.

Social Hierarchy Materialized: Korean Vernacular Houses as a Medium to Transfer Confucian Ideology

Seo, K. W. & Ryoo, S-L., 26 Jan 2020, In: Sustainability. 12, 3, 16 p., 902.

Decoding urban kernel in Japanese port cities by means of space syntax

Kigawa, T. & Seo, K. W., 8 Jul 2019, *Proceedings of the 12th Space Syntax Symposium (12SSS): 8-13 July 2019, Beijing, China*. Beijing: Space Syntax Network, p. 181-191 10 p. 181

Oxcart Route in the City: Tracking the Urbanization Process of an Agricultural Village in Korea

Seo, K. W. & Lee, S., 11 Apr 2019, In: Sustainability. 11, 7, 17 p., 2153.

The impact of dwelling-street Interfaces on the morphology of domestic floor plans

Wir-Konas, A. & Seo, K. W., Jul 2018, *25th ISUF International Conference: Urban Form and Social Context: from traditional to newest demands*. Siberian Federal University

Fossilisation of Rural Streets Within the Modern City

Seo, K. W., 2018, *Computational Studies on Cultural Variation and Heredity*. Lee, J-H. (ed.). Springer, p. 61-71

Improving Urban Retirees' Well-Being by Leisure Activities

Park, S. & Seo, K. W., 29 Sept 2017, In: Journal of Building Construction and Planning Research. 05, 03, p. 99-115

Measuring the Needs for Medical Service in the Retirement Residential Community in Korea

Park, S. & Seo, K. W., 29 Sept 2017, In: Journal of Building Construction and Planning Research. 05, 03, p. 116-127

A configuration generator: Housing as a toolkit for spatial exploration by users

Seo, K. W., Kim, E. Y. & Kigawa, T., Jul 2017, *Proceedings of the 11th International Space Syntax Symposium*. Lisbon: Instituto Superior Técnico - Universidade de Lisboa

Defining domestic access patterns the link between the house and street network in Newcastle upon Tyne

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Finding an ideal model for compact cities with Multipole networks

Kigawa, T. & Seo, K. W., Jul 2017, *Proceedings of the 11th International Space Syntax Symposium*. Lisbon: Instituto Superior Técnico - Universidade de Lisboa

Final Report: Incremental SI(structure-infill) Housing for Low-income Population in Malaysia

Seo, K. W., 1 Oct 2016, (In preparation) Newcastle upon Tyne, UK: British Council. 280 p.

Finding Housing Genotypes by Graph Theory: an Investigation into Malay Houses

Seo, K. W., 1 Oct 2016, *Morphological Analysis of Cultural DNA: Tools for Decoding Culture-Embedded Forms*. Lee, J-H. (ed.). Singapore: Springer, p. 37-47 240 p.

Relocation and place attachment: House design as an enabler of belonging

Costa Santos, S. & Seo, K. W., 22 Jan 2016.

Relocation and Place Attachment: Housing Design as an Enabler of Belonging

Costa Santos, S. & Seo, K. W., 21 Jan 2016, (E-pub ahead of print).

Oxen in the backstreet: Tracing an old rural route within the modern city

Seo, K. W., Choe, D. & Kigawa, T., Jul 2015.

A Truly Asian Home: Accommodation of Traditional Domestic Culture within the Modern Apartment Housing

Seo, K. W., Kigawa, T. & Zaki, S., Apr 2015.

Making a Home: Architectural features

Seo, K. W., 23 Mar 2015, *Routledge Handbook of Families in Asia*. Quah, S. (ed.). London: Taylor & Francis, p. 461-485 529 p.

Distortion of Spatial Size Perception by the Pattern of Object Distribution

Seo, K. W., Oct 2014, In: *KIEAE Journal*. 14, 5, p. 75-80

The Distortion of Road Distance Perception by the Pattern of Object Distribution

Seo, K. W., Aug 2014, In: *KIEAE Journal*. 14, 4, p. 91-96

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Seo, K. W., 5 Jul 2014, *Mimesis: Architectural Imagination and Storytelling*. Seo, K. W. (ed.). Open Book Publishers, p. 384-397

Combining Space Syntax With GIS-based Built Environment Measures in Pedestrian Walking Activity

Lee, S. & Seo, K. W., Oct 2013.

Distilling "Urban Kernel" from the Revival Processes from War Damages in Japanese Local Cities

Kigawa, T., Furuyama, M. & Seo, K. W., Oct 2013.

Interpretable Housing for Freedom of the Body: The Next Generation of Flexible Homes

Seo, K. W. & Kim, C. S., Sept 2013, In: *Journal of Building Construction and Planning Research*. 01, 03, p. 75-81

A Study on the Eco-friendly Planning Methods in Korean Apartment Houses

Kim, Y. K. & Seo, K. W., Aug 2013, In: *Korean Institute of Interior Design Journal*. 22, 4, p. 141-148

A Study on the Evaluation of the Building Energy Efficiency in Accordance with the Shapes of the Apartment Unit Plans

Kim, C. S. & Seo, K. W., Aug 2013, In: *Journal of the Korea Institute of Ecological Architecture and Environment*. 13, 4, p. 55-62

Preface

Kim, Y. O., Park, H. T. & Seo, K. W., 1 Jan 2013, In: 2013 International Space Syntax Symposium.

An Application of Basil Bernstein Theory to the Analysis of Museum Space

Kim, C. S. & Seo, K. W., Dec 2012, In: *Journal of Korean Institute of Culture Architecture*. 40, p. 29-36 8 p.

Integrated daylighting simulation into the architectural design process for museums

Kim, C. S. & Seo, K. W., Dec 2012, In: *Building Simulation*. 5, 4, p. 325-336

DNA of the House: A Hidden Dimension in the Development of Domestic Space in Seoul

Seo, K. W., Mar 2012, In: *Home Cultures*. 9, 1, p. 77-97

A Research on the Spatial Configuration of the Korean Super-high rise Multi-unit Housing after the 1990s

Seo, K. W., Apr 2011, In: *Korean Institute of Interior Design Journal*. 20, 2, p. 139-146

A Remodeling Concept for the Underground Shopping Mall in Seoul

Seo, K. W., Apr 2010, In: *Journal of the Korean Institute of Interior Design*. 19, 2, p. 15-23

Using Space Syntax to Trace the Japanese Urban Renovation from JYOKAMACHI to Modern Cities: What formed the city, the Centre or the Boundary?

Kigawa, T. & Seo, K. W., Jun 2009.

Topological Investigation of the Generative Grammar for the Balcony Access Type Apartment Houses in Seoul
Seo, K. W., Feb 2008, In: Journal of the Korean Housing Association. 19, 1, p. 9-16

Space puzzle in a concrete box: finding design competence that generates the modern apartment houses in Seoul
Seo, K. W., 1 Oct 2007, In: Environment and Planning B: Planning and Design. 34, 6, p. 1071-1084

The Significance of Modern Japanese City Planning: a morphological examination of the land readjustment projects in Korea, Taiwan and Japan
Kigawa, T., Seo, K. W. & Furuyama, M., Jun 2007.

An Analysis of the Apartment House Plans in Seoul by Means of a New Graph-theoretic Method
Seo, K. W., Mar 2007, In: Journal of the Korean Housing Association. 18, 2, p. 121-128

A Meaning of Baroque in terms of Space Syntax
Kigawa, T., Seo, K. W. & Furuyama, M., 15 Nov 2006, In: Journal of Asian Architecture and Building Engineering. 5, 2, p. 269-276

The Law of Conservation of Activities in Domestic Space
Seo, K. W., 15 May 2006, In: Journal of Asian Architecture and Building Engineering. 5, 1, p. 21-28

Topological paths in housing evolution
Seo, K. W., Jun 2003.

Awards

Development of the Incremental SI (Structure and Infill) Housing for Low-income Population in Malaysia
Seo, K. W.
British Council: £133,787.00
1/04/15 → 30/09/16

Projects