

## **JONATHAN KIM**

### **Current Position**

Ph.D. candidate at University of Illinois at Urbana-Champaign  
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### **Education**

Ph.D. candidate in Architecture, University of Illinois at Urbana-Champaign  
M.A.E in Sustainable Architectural Engineering, Hanyang University, Seoul, Korea, 2010  
B.S in Architectural Engineering, Hanyang University, Seoul, Korea, 2008

### **Professional Experience**

Building energy research engineer, WooWon M&E, Seoul, 2010 - 2014

### **Teaching Experience**

Teaching assistance, ARCH341 Environmental Technology I, 2015-2018

### **Publications**

#### **Journal Articles**

Development of an energy evaluation methodology to make multiple predictions of the HVAC&R system energy demand for office buildings, *Energy and Buildings* 80(2014) 169~183, 2014.

Development of an HVAC&R Systems Energy Evaluation Methodology and Simulation Program for Office Buildings, *Korean Journal of Air-Conditioning and Refrigeration* V25 N.7, 2013.

System Impact Assessment for Energy Consumption Characteristic of Office Building HVAC&R Systems, *Journal of the Architectural Instituted of Korea Planning & Design* V28 N.11, 2012.

#### **Conference Proceedings**

Renewable Energies Optimizing Modelling in Sustainable Buildings, International Conference on Sustainable Building Asia, 2010

The Development and Verification of Renewable energies Optimization Simulation for

Sustainable Buildings, KIAEBS Conference, 2010  
Effects of Ventilation System on Energy Consumption in Apartments, KIAEBS Conference, 2009.  
Building Energy Saving Analysis for 2030 Green Design building Energy Code for Seoul, SAREK Conference, 2011.  
Indoor Air Environment Control Technology of Joseon Palaces, KIAEBS Conference, 2009.  
The field measurement on Airtightness of Royal palaces, KIAEBS Conference, 2008.

### **Research projects**

#### **Hanyang University, Seoul, 2008-2010**

Development and Application of a Simulation Program to Optimize Renewable Energy for Sustainable buildings, Hanyang Univ, 2010, MD Thesis.  
Indoor Air Environment Control Technology of Joseon Palaces, Cultural Heritage Administration, 2009.  
Effects of Ventilation System on Energy Consumption in Apartments, Ministry of Education, 2009.

#### **WooWon M&E, Seoul, 2010-2014**

2030 Green design building codes for Seoul, Seoul City Government, 2011.  
HVAC&R Low Energy Solution Set, SamSung Construction, 2012.  
K-MEG Energy Grid, Korea Ministry of Commerce, 2013.  
Energy Saving for Large Buildings in Seoul City, Seoul City Government, 2013.

### **Awards**

Best Graduate Thesis Award, Hanyang University, 2008  
Best Presentation Award, WooWon INC, 2011

### **Affiliations**

Member, Architectural Institute of Korea (AIK)  
Member, Society of Air-Conditioning and Refrigerating engineers of Korea (SAREK)  
Member, Korean Institute of Architectural Sustainable environment and Building Systems (KIAEBS)