

# Dongwoo 'Jason' Yeom Ph.D.

College of Architecture and Design  
Lawrence Technological University  
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## Education

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- 2008 – 2014     **Ph.D. in Architecture, Ajou University**  
Dissertation: *A Study on the Sustainability Improvement Model for G-SEED*  
(Green Standard for Energy and Environmental Design / Korean Green Building Certification System)
- 2006 – 2008     **M.S. in Architecture, Ajou University**  
Thesis: *A Study on the Establishment of Weight for Sustainability Assessment Indicators and Test Scoring for Super High-rise Residential Complexes*
- 1999 – 2006     **B.S. in Architecture, Ajou University**

## Academic / Professional Work Experiences

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- *Academic Work Experience*

- 2018 Jan. – Present     **Assistant Professor**, College of Architecture and Design, Lawrence Technological University, MI, USA
- 2016 – 2017     **Postdoctoral Researcher**, Building Science, School of Architecture, University of Southern California, CA, USA
- 2015 – 2016     **Postdoctoral Researcher**, Department of Architecture, California State Polytechnic University Pomona, CA, USA
- 2014     **Researcher**, Engineering Research Institute, Ajou University, Korea
- 2006 – 2014     **Research Assistant**, ESSA Lab (Environmentally Sound and Sustainable Architecture), Department of Architecture, Ajou University, Korea

- *Professional Work Experience*

- 2013 – 2014     **Private Practice**, Korea
- Designed sustainable housing for a single family (GFA: 166 m<sup>2</sup>)
  - Construction approved, but not built
- 2011 – 2012     **Design/Build Supervisor**, ESSA Lab, Ajou University, Korea
- Developed sustainable design features, and supervised constructions of seven full-scale experimental mockups for the research projects
  - Conducted monitoring experiments, and published multiple papers

- 2010 – 2011     **Founding Associate**, G.I.P Corp., Korea
- Start-up company for green home & building design and construction
  - Conducted green home design, client meeting, and patent progression
- 2000 – 2002     **KATUSA** (Korean Augmentation to the U.S. Army), **National Military Service**
- 8th U.S. Army: CEMS (Communication and Electronics Maintenance Shop), HHC, 304th SIG BN, 1st SIG BG
  - Served as an administrator and a Battalion Senior KATUSA

## Patent

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- 2010             Inventors: Hong, J., Lee, J., **Yeom, D.** & Kim, M. “Unit Panel by Eco Material and Eco House thereof”, Registration #: 10-0994783-0000

## Publications (H-Index: 6, Citations: 102 as of Jan. 2019)

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### Peer-reviewed International Journal (\*: Corresponding author)

- *Published*

- 2019             Choi, J. & **Yeom, D.** “Development of the data-driven thermal comfort prediction model as a function of human physiological responses in a built environment”, *Building and Environment*, *accepted in Jan, 2019*
- 2017             **Yeom, D.**, Choi, J. & Zhu, Y. “Investigation of Physiological differences between Immersive Virtual Environment and Indoor Built Environment in a building”, *Indoor and Environment*, Online published in Sep 19, 2017
- 2017             **Yeom, D.** & La Roche, P. “Investigation on the Cooling Performance of Green Roof with a Radiant Cooling System”, *Energy and Buildings*, 149, pp.26-37, 2017
- 2017             Choi, J. & **Yeom, D.** “Study of Data-driven Thermal Sensation Prediction Model as a Function of Local Body Skin Temperatures in a Built Environment”, *Building and Environment*, 121, pp.130-147, 2017
- 2017             Choi, J. & **Yeom, D.** “Investigation of the Relationship between Thermal Sensation of Local Body Areas and the Whole Body in an Indoor Built Environment”, *Energy and Buildings*, 149, pp.204-215, 2017
- 2017             Ahn, E., **Yeom, D.** & Lee, K. “Experimental Research on the Indoor Environment Performance of Complex Natural Insulation Material: Carbonized Rice Hull and Rice Hull”, *Journal of Asian Architecture and Building Engineering*, 16(1), pp.239-246, 2017
- 2016             Yin, C., **Yeom, D.** & Lee, K. “Study on the Indoor Environmental Performance of Complex Insulation Material”, *Indoor and Built Environment*, Published online before print, September 21, 2016, doi: 10.1177/1420326X16670450

- 2015 **Yeom, D.** & Lee, K. "Study on the Improvement of Korean Green Building Certification Criteria", *Journal of Asian Architecture and Building Engineering*, 14(1), pp.129-136, 2015
- 2015 Lee, K. & **Yeom, D.\*** "Experimental Research on Temperature and Humidity Control Performance of Hwang-toh Finishing", *Indoor and Built Environment*, 24(1), pp.63-72, 2015
- 2014 Lee, K. & **Yeom, D.\*** "Experimental Research on the Indoor environment Control of Natural Insulation Materials: Carbonized Rice Hull and Straw bales", *Indoor and Built Environment*, 24(6), pp.729-739, 2014
- 2013 Lee, K., **Yeom, D.\*** Kim, E., "Experimental Research in the Correlation of Temperature, Humidity, and CO<sub>2</sub> Level of a Rice Hull Insulated Indoor Environment", *Journal of Asian Architecture and Building Engineering*, 12(2), pp.221-228, 2013
- 2012 Lee, K. & **Yeom, D.\*** "Comparative Research of Residents' satisfaction Level in KGBCC-Certified Apartments in Korea", *Journal of Asian Architecture and Building Engineering*, 11(1), pp.55-62, 2012
- 2012 Lee, K., **Yeom, D.** Lee, B., "Study on the Temperature and Humidity Control Performance of Hwang-toh Finish", *Applied Mechanics and Materials*, Vol. 204-208, pp.3652-3659, 2012
- 2011 Lee, K. & **Yeom, D.\*** "Comparative Study for Satisfaction Level of Green Apartment Residents", *Building and Environment*, 46, pp.1765-1773, 2011
- 2009 Lee, K. & **Yeom, D.\*** "Comparative Research of Residents' Satisfaction Level between Green Building-Certified Apartment Complexes and General Apartment Complexes in Korea", *Journal of Asian Architecture and Building Engineering*, 8(2), pp.423-430, 2009

**Peer-reviewed Domestic (Korean) Journal** (\*: Corresponding author)

▪ *Published*

- 2016 **Yeom, D.** & Lee, K. "Study on the Assessment Indicators for the Sustainability Improvement of G-SEED", *Journal of Architectural Institute of Korea*, 32(9), pp.49-58, 2016
- 2015 Park, K., **Yeom, D.** & Lee, K. "Experimental Research on the Temperature and Humidity Control Performance of Cellulose", *Journal of Architectural Institute of Korea*, 31(7), pp.13-20, 2015
- 2015 Lee, H., **Yeom, D.** & Lee, K. "The Research on the Indoor Temperature control of Green Roof by Solid Vegetation Epiphytic Board", *Journal of Korea Institute of Ecological Architecture and Environment*, 15(3), pp.93-99, 2015

- 2015 **Yeom, D.** & Lee, K. "A Study on the Improvement of G-SEED Management System", *Journal of Architectural Institute of Korea*, 31(3), pp.13-22, 2015
- 2012 Lee, K. & **Yeom, D.\*** "Study on the Temperature and Humidity Control Performance of Hwang-toh Finish", *Journal of Korea Institute of Ecological Architecture and Environment*, 12(6), pp.99-106, 2012
- 2012 Kim, E., **Yeom, D.** & Lee, K. "An Experimental Study on the Thermal Performance of Rice Hull Insulation for Rural Green Home", *Journal of Architectural Institute of Korea*, 28(8), pp.45-54, 2012
- 2011 Kwon, H., **Yeom, D.** & Lee, K. "A Study on the Effect and Improvement Directions of KGBCC based on the Comparison of Green Residents Satisfaction", *Journal of Korea Institute of Ecological Architecture and Environment*, 11(5), pp.79-90, 2011
- 2009 Lee, K. & **Yeom, D.\*** "The Research on the Improvement Direction of KGBCC by Residents' Satisfaction Level in KGBCC Certified Apartment", *Journal of Architectural Institute of Korea*, 25(12), pp.41-51, 2009
- 2008 Lee, K. & **Yeom, D.\*** "A Study on the Establishment of Weight for Sustainability Assessment Indicators and Test Scoring for Super High-rise Residential Complexes", *Journal of Architectural Institute of Korea*, 24(3), pp.23-32, 2008

## Conference Proceedings

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### Peer-reviewed International Conference (\*: Corresponding author)

#### ▪ Published

- 2018 La Roche, P., Rodriguez, L. & **Yeom, D.** "Green Roofs for Cooling in Different Climates", *Proceedings of 13<sup>th</sup> Conference on Advanced Building Skins*, October 1-2, Bern, Switzerland, 2018
- 2017 Choi, J., **Yeom, D.** "Local body skin temperature-driven thermal sensation prediction model for a building environmental control", *Proceedings of Healthy Building 2017 Asia*, September 2-5, Tainan City, Taiwan, 2017
- 2017 Almodovar, J., La Roche, P. & **Yeom, D.** "Thermal assessment of different configurations of roof ponds for passive cooling", *Proceedings of PLEA2017 Edinburgh, Edinburgh, U.K.*, pp.3483-3490, 2017
- 2016 La Roche, P., Almodovar, J. & **Yeom, D.** "Cooling with Water and Green Roofs: Passive systems to improve thermal comfort", *Proceedings of Façade Tectonics 2016 World Congress*, Los Angeles, U.S., 2016
- 2016 **Yeom, D.** & La Roche, P. "Experimental Research on the Cooling Performance of Green Roof with Radiant Cooling System", *Proceedings of PLEA2016 Los Angeles*, Los Angeles, U.S., pp.806-812, 2016

- 2016 Almodovar, J., La Roche, P. & **Yeom, D.** “Experimental Investigation of the Cooling Effects of a Water to Air Heat Exchanger Combined with a Green Roof”, *Proceedings of PLEA2016 Los Angeles*, Los Angeles, U.S., pp.479-485, 2016
- 2012 Lee, K., **Yeom, D.** & Lee, B. “Study on the Temperature and Humidity Control Performance of Hwang-toh Finish”, *Proceedings of International Conference on Civil, Architectural and Hydraulic Engineering (ICCAHE)*, Zhangjiajie, China, 2012
- 2009 Lee, K. & **Yeom, D.\*** “Comparative Study for Satisfaction Level of Green Apartment Residents”, *Proceedings of Green Tech, Eco Life & Sustainable Architecture for Cities of Tomorrow (GEST2009)*, Seoul, Korea, pp.603-610, 2009
- 2008 Lee, K. & **Yeom, D.\*** “A Study on the Characteristics of Residential Complexes certified with Korea Green Building Certification Criteria”, *Proceedings of Sustainable Building 2008 Melbourne*, pp.1932-1939, 2008
- 2007 **Yeom, D.** & Lee, K. “A Study on the Assessment Indicator and the Improvement Level Analysis for the Assessment of Super High Rise Residential Complexes”, *Proceedings of Sustainable Building 2007 Seoul*, pp.119-124, 2007

**Peer-reviewed Domestic (Korean) Conference** (\*: Corresponding author)

▪ *Published*

- 2016 Lee, D., **Yeom, D.** & Lee, K. “Experimental Research on the Indoor Environment of the Traditional and Low-Energy Han-ok in Summer”, *Proceedings of Autumn Conference of Architectural Institute of Korea*, 36(2), pp.1176-1177, 2016
- 2016 Kim, D., **Yeom, D.** & Lee, K. “Study on the Passive Window Application for the Green Remodeling”, *Proceedings of Spring Conference of Korea Institute of Ecological Architecture and Environment*, 16(1), pp.76-77, 2016
- 2013 Ahn, E., **Yeom, D.** & Lee, K. “The Research on the Indoor Environment Performance Evaluation of the Mock-up with Rich Hull and Charred Rice Hull Mix Insulated Wall”, *Proceeding of Autumn Conference of Architectural Institute of Korea*, 33(2), pp.13-14, 2013
- 2012 Lee, K., Baek, Y. & **Yeom, D.\*** “The Research on the Humidity Control Performance Evaluation of the Mock-up with Ecological and General Finishes”, *Proceeding of Spring Conference of Architectural Institute of Korea*, 32(1), pp.57-58, 2012
- 2012 Lee, K., Lee, H. & **Yeom, D.\*** “The Research on the Humidity Control Performance Evaluation of the Mock-up with Strawbale and Charred Rice Hull Insulation”, *Proceeding of Spring Conference of Architectural Institute of Korea*, 32(1), pp.59-60, 2012
- 2011 Kim, E., **Yeom, D.** & Lee, K. “An Energy Simulation and Efficiency of rural Green Home Mock-Up”, *Proceeding of Autumn Conference of Architectural Institute of Korea*, 31(2), pp.13-14, 2011

## Grant and Contract

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- 2018 – Present     **Lawrence Technological University**
- Human sensing-implemented indoor heating and cooling system control  
(Pending Approval)*
- Role: Principle Investigator
  - ASHRAE Undergraduate program equipment grant
  - Conduct human experiments as a student assignment in the HVAC course
- Investigation on the Indoor Environment Control by Physiological Human Signals  
(Funded by Lawrence Technological University)*
- Role: Principal Investigator
  - Faculty research SEED grant
  - Conduct human experiments to verify the relationship between indoor thermal environment and human physiological responses
- Users' Behavior and Environment Analysis in the A. Taubman Complex Building  
(Funded by Lawrence Technological University, Collaboration with Albert Kahn Associates, Inc.)*
- Role: Principal Investigator
  - Conduct comparative analysis on the post occupancy evaluation (POE) and physical environment monitoring results
- User's Behavior and Emotional Responses in the office with the electrochromic Window system  
(Funded by View Inc.)*
- Role: Sub-contractor (Human Building Integration Lab, University of Southern California)
  - Conduct comparative POE on the office with the electrochromic window
- IoT integrated façade design: Human-sensing Implemented Active Shading Control for Occupants' Health and Productivity  
(Submitted, but not funded)*
- Role: Principal Investigator
  - AIA Upjohn Research Initiative Award
- Building IoT: Human-sensing Integrated Indoor Thermal Environment Control for Occupants' Health and Building Performance – Focused on the Senior Group  
- Focused on the senior group  
(Submitted, but not funded)*
- Role: Principal Investigator
  - ARCC Research Incentive Award (Architectural Research Centers Consortium)
- 2016 – 2017     **University of Southern California**
- Human-Building Integration: Occupant Eye Pupil Size-Driven Lighting Control As a Sustainable Indoor Environmental Control Strategy in a Built Environment  
(Funded by EPA – Environmental Protection Agency)*
- Role: Research Collaborator
  - EPA's P3 (People, Prosperity and the Planet) student design competition
  - Participated in the research methods development and application documentation

*Energy modeling and analysis for the Los Angeles county public works –  
Development of sustainable infrastructure guidelines*

*(Funded by AECOM)*

- Role: Researcher
- Analyzed California building code (Title 24), developed energy models, and established sustainable design strategies for four building types

*User-Centered Integrated Building Environmental Control Using Human Bio-Signals for Environmental Sustainability and Well-being*

*(Submitted, but not funded)*

- Role: Research Collaborator
- *AIA Upjohn Research Initiative Grants*
- Participated in the research methodology development and application documentation

*Investigation on the indoor environment control by physiological human Signals: Immersive virtual environment and indoor environment*

*(Sponsored by Ajou University, Korea)*

- Role: Researcher
- Postdoc research project
- Conducted human subjects experiment, analyzed the physiological and survey data, and published journal papers

2015 – 2016      **California State Polytechnic University Pomona**

*Investigation on the cooling performance of the Green Roof with Radiant system*

*(Sponsored by Dongeun Landscape Co.)*

- Role: Researcher
- Postdoc research project
- Developed hybrid green roof with radiant cooling system, built and monitored green roof test cells, and published journal paper

2006 – 2017      **Ajou University (selective)**

*A research on the environmental performance evaluation model for green remodeling building*

*(Funded by the National Research Foundation of Korea (NRF), 2015 - 2017)*

- Role: Researcher
- Developed research methodology, and managed the application documentation
- Conducted energy simulation and analyzed monitoring experiment results

*A research on the establishment of green spec and green code for green home*

*(Funded by NRF, 2011 – 2014)*

- Role: Research Assistant
- Developed research methodology and preliminary green spec / green code, and managed overall application process and documentation
- Developed, built, and monitored full-scale mockups and published the results

*Development of standard model for rural green home*

*(Funded by Ministry of Agriculture, Food and Rural Affairs (MAFRA), 2010 – 2013)*

- Role: Research Assistant
- Developed a rural green home prototype, and verified its performance in the mockups

*Development of low carbon and energy-saving new town*

*(Funded by Ministry of Land, Transport and Maritime Affairs (MLTM), 2010)*

- Role: Research Assistant
- Developed design guideline and standard for public housing in new town

*Development of eco envelope for low carbon home*

*(Funded by Ministry of Education and Science Technology (MEST), 2009 – 2010)*

- Role: Research Assistant
- Developed automated shading system and performed monitoring experiments

*Development for 3Z (Zero)-House (Living Machine)*

*(Funded by NRF, 2008 – 2011)*

- Role: Research Assistant
- Developed design concept and strategies, participated in the construction of full scale mock-up, and performed monitoring experiment

*Development of performance Assessment and monitoring technology for multi residential complex*

*(Funded by MLTM, 2006 – 2011)*

- Role: Research Assistant
- Developed performance assessment indicators for residential complex

## **Awards and Scholarships**

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2016	<b>Superior Presentation Winner</b> , Spring Conference of Korea Institute of Ecological Architecture and Environment, Korea
2016	<b>Postdoc Grant</b> , \$25,000, Ajou University, Korea
2015	<b>Postdoc Grant</b> , \$30,000, Dongeun Landscape Co., Korea
2013	<b>Best Paper Award Winner</b> , Journal of Asian Architecture and Building Engineering (JAABE), Japan
2013	<b>Superior Presentation Winner</b> , Autumn Conference of Architectural Institute of Korea, Korea
2008 – 2011	<b>Ph.D. Graduate Scholarship</b> , Granted by Ajou University, Korea
2006 – 2008	<b>M.S. Graduate Scholarship</b> , Granted by Ajou University, Korea
2003 – 2005	<b>Ajou Scholarship</b> , Granted by Ajou University, Korea
2002	<b>ARMY Achievement Medal (AAM)</b> , 304 <sup>th</sup> SIG BN, 1 <sup>st</sup> SIG BG, 8 <sup>th</sup> US Army



## Teaching Experience

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- *Lawrence Technological University*

2018– Present    **Assistant Professor**

ARC5423, *Ecological Issues*

- Spring 2019 (Enrollment: 52)
- Graduate seminar course
- Contents: Natural and cultural context for ecological building design

ARC4126, *Comprehensive Design - Lab*

- Spring 2019 (Enrollment: 39)
- Undergraduate architectural design studio - Lab
- Lab: Technical research, computation, and documentation, focusing on the system integration in the architectural design

ARC4116, *Integrative Design Studio 5*

- Fall 2018 (Enrollment: 39)
- Undergraduate architectural design studio
- Project: *Clinical and recreation center for Bittersweet Farms: Architectural design for the people with the Autism*

ARC3423, *HVAC and Water Systems*

- Spring & Fall 2018 (Enrollment 27 & 29)
- Undergraduate lecture & lab course
- Lecture: Fundamental principles and applications of building systems
- Lab: Integrated system design, related simulation program practice, and thermal comfort experiments

ARC4443, *Acoustics, Electrical and Illuminations Systems*

- Spring 2018 (Enrollment: 31), Fall 2018 (1:1 directed study), Spring 2019 (Enrollment: 48)
- Undergraduate lecture & lab course
- Lecture: Fundamental principles and applications of building systems
- Lab: Integrated system design, related simulation program practice, and shading system design and performance experiments

- *Ajou University*

2017

**Lecturer**

ARCH422, *Green Residential Complex Design*

- Fall 2017 (Enrollment 12)
- Undergraduate lecture course
- Lecture: Design strategies and practice for the green residential complex, considering Korean green building and LEED certification category

- *California State Polytechnic University Pomona*

2015

**Guest Instructor**

*ARC203, Architectural Design studio*

- Fall 2015 (Enrollment 15)
- Undergraduate architectural design studio
- Project: *Student Education Facility in Joshua Tree National Park*
- Conducted desk critique, participated in the final review as a reviewer, and co-evaluated students' final project

*ARC402, Architectural Design studio*

- Spring 2015 (Enrollment 15)
- Undergraduate architectural design studio
- Project: *Sustainable Residential Complex Design*
- Conducted desk critique, participated in the final review as a reviewer, and co-evaluated students' final project

- *Ajou University*

2013

**Lecturer**

*ARCH422, Green Residential Complex Design*

- Fall 2013 (Enrollment 50)
- Undergraduate lecture course
- Contents: Design strategies and practice for the green residential complex based on the Korean green building certification and LEED certification category

2006 – 2011

**Graduate Student Instructor**

- Multiple undergraduate *Architectural design studio*
- Multiple undergraduate *Green residential complex design class*
- Multiple undergraduate *Ecological architecture*

## **Invited / Guest Lecture**

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2018

**Invited Lecturer**

*Human-sensing Implemented Building System Control*

- Detroit Center for Design + Technology (DCDT), Detroit, MI
- Faculty Brown Bag Series

2017

**Guest Lecturer**

*Sustainable building design and human building integration*

- Ajou University, Korea
- ARCH635, Advanced Architectural Environment & Psychology
- Graduate lecture course

- 2017 **Guest Lecturer**  
*Zero energy building - Concept, design strategies and case studies*
- Soongsil University, Korea
  - EE6730, Topics in Renewable Energy
  - Graduate lecture course (Electrical engineering major)
- 2017 **Guest Lecturer**  
*Building energy simulation practice (Design Builder)*
- University of Southern California, Los Angeles, CA
  - ARCH615, Advanced Topics in Environmental Controls
  - Graduate lecture course
- 2016 **Guest Lecturer**  
*Advanced research methodology*
- University of Southern California, Los Angeles, CA
  - ARCH515, Advanced Environmental System
  - Graduate lecture course
  - Had a follow-up discussion session about students' thesis
- 2016 **Guest Lecturer**  
*Sustainable building design strategies*
- University of Southern California, Los Angeles, CA
  - ARCH576, Sustainable Design for Healthy Indoor Environments Contents
  - Graduate lecture course
  - Had a follow-up discussion session about students' term project
- 2014 **Invited Speaker**  
*Korean Green Building Certification system: The Possibility of Sustainability Assessment*
- LES (Land & Environment Sustainability) Forum and Future Space Research Group Joint Seminar, Korea
- 2012 **Field Instructor**  
*Green Home Construction Field Practice*
- Land and Environment Sustainability Forum (LES Forum) summer workshop
  - Supervised 40 forum members to build an experiment house structure
- 2011 – 2012 **Field Instructor**  
*Ecological Home Construction Field Practice*
- Ajou University, Korea
  - ARCH315, Ecological architecture
  - Supervised 30 undergraduate students to build a rammed earth house

## Services

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- *Internal (Lawrence Technological University)*

2019            **Faculty Sponsor**, Presidential Undergraduate Research Award (\$1,000)

2018 – Present   **Search Committee**, Interior Design faculty

**Campus Affair Committee**, Member

**Intelligent Connected System Institute**, Member

- *External*

2019            **Peer reviewer**, Journal: Building and Environment

2018 – 2019   **Peer reviewer**, ARCC 2019 Conference, Toronto, Canada

2018            **Peer reviewer**, Journal: Energy and Building

2018            **Peer reviewer**, PLEA2018 Conference, Hong Kong, China

2017 – 2018   **Peer reviewer**, ARCC-EAAE 2018 International Conference, Philadelphia, U.S.

2016 – 2017   **Peer reviewer**, ARCC 2017 Conference, Salt Lake City, U.S.

2016            **Peer reviewer**, Journal: Architectural Science Review

2015 – 2016   **Organizing Committee & Scientific Committee**

                    PLEA2016 Los Angeles Conference, Los Angeles, U.S.

2015 – 2016   **Designer & System Consultant**

                    Developed overall design and affordable heating/cooling system for the community center in Cerro Azul, Tecate, Mexico

2013            **Community Planning Tutor**

- *Suwon Community Renaissance* Project, Korea

- Consulted about green community improvement strategies and granted \$30,000 for implementation by the winning ‘Top 8 town’ among 37 towns

2013            **Peer reviewer**, Journal: Building and Environment

## Professional Preparation / Training

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2018            **Faculty Grant Writing Workshop Series**

- *Hosted by the Provost’s Office*

- Lawrence Technological University, Southfield, MI

- Training session about how to prepare grant proposal and search funding opportunities

- *Day 1: Successful Grant Applications: Experiences from the Senior Faculties*

- *Day 2: Submission Process and Key Factors for Successful Proposal*

- *Day 3&4: Different Programs in NSF and Components of Successful NSF Proposal*

- 2018 **Faculty Teaching Development Workshop Series**
- *Hosted by the Center for Teaching and Learning (CTL)*
  - Lawrence Technological University, Southfield, MI
  - Training session about teaching methodology, course design, communication with students, and other teaching-related issues
    - *Student Entitlement: Truth, Fiction or Some of Both?*
    - *Managing Unconscious Bias on Campus: Where do we start?*
- 2017 **Scientist and Engineers Early-Career Development: SEED 2017 Workshop**
- *Hosted by KSEA (Korean-American Scientists and Engineers Association)*
  - KSEA Headquarter, Vienna, VA
  - Received the travel fellowship
  - Training session about how to prepare grant proposal and search funding opportunities
    - *Getting the Most Out of Oneself: Self-promotion, Communication skills, Resume Building & Effective Presentation*
    - *Career Development: Tenure-track Faculty in Academia or Candidates*
- 2016 – 2017 **Faculty Teaching Development Workshop Series**
- *Hosted by the Center for Excellent in Teaching (CET)*
  - University of Southern California, Los Angeles, CA
  - Training sessions about teaching methodology, course design, communication with students, and other teaching-related issues
    - *Course Design for Student Success: Supporting Diverse Student Populations*
    - *Tips on How to Manage Distracted Behavior in the Classroom: Student Perspective*
    - *Active Learning Meet-Up: Turning a Guest Speaker into an Active-Learning Opportunity*
    - *Course Design for Student Success: Minimizing Cheating*
- 2016 **Scientist and Engineers Early-Career Development: SEED-WEST 2016 Spring Workshop**
- *Hosted by KSEA (Korean-American Scientists and Engineers Association)*
  - KSEA Silicon Valley chapter, San Jose, CA
  - Received the travel fellowship
  - Training sessions about job searching, grant proposal, funding opportunities, and career development
    - *Research Opportunities and Team Work by Seta Bogosyan (NSF)*
    - *Collaboration Opportunities between U.S.A and Korea*
    - *How to Build a Successful Career*
    - *Career Advancement, Job Search & Hiring Process*
    - *Job Interview and Presentation Skills in Academia*

## **Membership / Certification**

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- 2018 – Present **ASHRAE**, The American Society of Heating, Refrigerating and Air-conditioning Engineers
- 2018 – Present **SBSE**, Society of Building Science Educators
- 2018 – Present **BTES**, Building Technology Educator’s Society
- 2016 – Present **KSEA**, Korean-American Scientists and Engineers Association
- 2014 – Present **LEED GA**, U.S. Green Building Council (USGBC)
- 2011 – Present **KIEAE**, Korea Institute of Ecological Architecture and Environment
- 2007 – Present **AIK**, Architectural Institute of Korea

## **Technical Skills**

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### **Building performance related tools**

- Design Builder, Sefaira, PHPP, E-quest, HEED, Climate Consultant, Therm, Honeybee, Comfen, U-Wert

### **Architectural design and graphic tools**

- Autodesk Revit, Autodesk AutoCAD, Autodesk Enscape, Rhino Ceros, Grasshopper, Sketch-up, Adobe Photoshop, Adobe Illustrator

### **Data analysis and Statistical tools**

- Mini-Tab, SPSS, WEKA, PsychoPy, MS Office