

AMY A. KIM

Curriculum Vitae

Civil and Environmental Engineering
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EDUCATIONAL HISTORY

Texas A&M University, College Station, TX

Ph.D., Civil Engineering

May 2014

“A Comparative Analysis of Predicting Energy Savings from Energy Service Projects”

Illinois Institute of Technology, Chicago, Illinois

M.S., Civil Engineering

December 2008

“Performance of MBE/DBE/WBE Construction/CM Firms in Transportation Projects”

University of Illinois, Urbana-Champaign, Illinois

B.S., Architectural Studies

May 2001

EMPLOYMENT HISTORY

University of Washington

Seattle, WA, USA

Assistant Professor, Civil and Environmental Engineering, 2014 – present

Primera Engineers

Chicago, Illinois, USA

Project Engineer, 2007-2009

DLA Architects, Ltd.

Itasca, Illinois, USA

Architect, 2006-2007

Earth Tech (now part of AECOM)

Oakbrook, Illinois, USA

Architect, 2001-2005

AWARDS AND HONORS

Husky Green Award, 2019, University of Washington

Student Poster Award, 2017, Center for Education and Research in Construction New Frontiers in Construction Conference (2nd place)

Outstanding Faculty Mentor Award, 2015, University of Washington Department of Civil & Environmental Engineering
Student Paper Award, 2015, CSCE International Construction Specialty Conference (1st place)
New Scholar Program Fellow, 2014, Construction Industry Institute
Civil Engineering Teaching Fellowship for Doctoral Candidates, 2012, Texas A&M University
Urban/Beavers Fellowship, 2012, Texas A&M University
Williams Brothers Construction Fellowship, 2012, Texas A&M University
Outstanding Graduate Student Award, 2012, Texas A&M University
Greenbuild International Conference Multimedia Visual Competition, 2011, USGBC (2nd place)
Williams Brothers Construction Fellowship, 2011, Texas A&M University
Peter C. Forster Fellowship, 2009, Texas A&M University
Primera Engineers Education Scholarship, 2008, Primera Engineers
Regional Chapter Scholarship, 2007, Construction Management Association of America Chicago
Dean's Fellowship, 2006, Illinois Institute of Technology
Outstanding Service Award, 2004, Construction Specification Institute

AFFILIATIONS AND OTHER APPOINTMENTS

Affiliated Faculty, The Henry M. Jackson School of International Studies, Southeast Asia Center, University of Washington. 2018 – present.

PUBLICATIONS

¹ Graduate students for whom I am primary advisor

² Post-docs for whom I am major advisor

³ Other students for whom I advised

IF: journal impact factor for 2017/2018 from Journal Citation Reports

GS: Google Scholar citations as of October 1, 2019

Refereed archival journal publications

1. Kim, A., Reed, D., Choe, Y., Wang, S²., & Recart, C. ¹ New Building Cladding System Using Independent Titled BIPV Panels with Battery Storage Capability. *Sustainability* 11(20), 5547 (2019) [DOI: 10.3390/su11205546](https://doi.org/10.3390/su11205546) [IF: 2.592. GS: 0.]
2. Kim, A., Sunitiyoso, Y., & Medal, L. ¹ Understanding decision making of building's energy efficiency retrofits at a higher education institution. *Energy and Buildings* 199, pp. 197-215. (2019) [DOI: 10.1016/j.enbuild.2019.06.044](https://doi.org/10.1016/j.enbuild.2019.06.044) [IF: 4.495. GS: 0.]
3. Kim, A., Wang, S², McCunn, L., Prozuments, A.¹, Swanson, K., & Lokan, K. Commissioning the Acoustical Performance of an Open Office Space Following the Latest Healthy Building Standard: A Case Study. *Acoustics* 1(3), pp. 473-492. (2019) [DOI:10.3390/acoustics1030027](https://doi.org/10.3390/acoustics1030027) [IF: Not available. GS: 0.]
4. Hessami, A., Savafa, V., Kim, A., & Ford, D. Evaluating planning strategies for prioritizing projects in sustainability improvement programs. *Construction Management and*

- Economics* pp.1-13. (2019) [DOI: 10.1080/01446193.2019.1608369](https://doi.org/10.1080/01446193.2019.1608369) [IF: Not available; CiteScore: 2.09. GS: 0.]
5. [Kim, A.](#), Wang, S², Kim, J., & Reed, D. Indoor/outdoor Environmental Parameters and Window-opening Behavior: A Structural Equation Modeling Analysis. *Buildings* 9(4), 94. (2019) [DOI: 10.3390/buildings9040094](https://doi.org/10.3390/buildings9040094) [IF: Not available; CiteScore: 2.26. GS: 0.]
 6. [Kim, A.](#), Wang, S², & McCunn, L. Building Value Proposition for Interactive Lighting Systems in the Workplace: Combining Energy and Occupant Perspectives. *Journal of Building Engineering* 24, pp.100752. (2019) [DOI: 10.1016/j.jobe.2019.100752](https://doi.org/10.1016/j.jobe.2019.100752) [IF: 2.378. GS: 1.]
 7. Bramono, N. ¹, [Kim, A.](#), & Berawi, M. A Preliminary Framework for Expediting Energy Efficiency Retrofits (EERs) Using Alternative Financing in Indonesian Cities. *CSID Journal of Infrastructure Development* 20(1), pp.50-61. (2019) [DOI: 10.32783/csijd.v2i1.36](https://doi.org/10.32783/csijd.v2i1.36) [IF: Not available. GS: 0.]
 8. Sadatsafavi, H., [Kim, A.](#), Anderson, S., & Bishop, P. Scenario Planning Application in the US Highway Transportation Industry. *Journal of Infrastructure Systems* 25(2), pp. 05019002-1-12. (2019) [DOI: 10.1061/\(ASCE\)IS.1943-555X.0000474](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000474) [IF: 1.356. GS: 0.]
 9. Kosonen, H. ¹, [Kim, A.](#), Gough H., Mikola, A., & Vahala, R. A Comparative Study on Rapid Wastewater Treatment Response to Refugee Crisis. *Global Challenges* 3(1), pp. 189-199. (2018) [DOI: 10.1002/gch2.201800039](https://doi.org/10.1002/gch2.201800039) [IF: Not available. GS: 0.]
 10. [Kim, A.](#), Sadatsafavi, H., Medal, L. ¹, & Ostergren, M. Impact of Communication Sources for Achieving Campus Sustainability. *Resources, Conservation & Recycling* 139, pp.366-376. (2018) [DOI: 10.1016/j.resconrec.2018.08.024](https://doi.org/10.1016/j.resconrec.2018.08.024) [IF: 7.044. GS: 2.]
 11. McCunn, L., [Kim, A.](#), & Feraco, J. ³ Reflection on retrofit: Organizational commitment, perceived productivity and controllability in a building lighting project in the United States. *Energy Research & Social Science* 38, pp. 154-164. (2018) [DOI: 10.1016/j.eress.2018.02.002](https://doi.org/10.1016/j.eress.2018.02.002) [IF: 5.525. GS: 6.]
 12. Kosonen, H. ¹ & [Kim, A.](#) Mental Model Approach to Wastewater Treatment Plant Project Delivery During Emergency Response. *Journal of Construction Engineering and Management* 144(6), pp. 05018005-1-11. (2018) [DOI: 10.1061/\(ASCE\)CO.1943-7862.0001488](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001488) [IF: 2.201. GS: 1.]
 13. [Kim, A.](#), McCunn, L., & Lew, J. ³ Successful Change-Management Practices for Retrofit Projects: A Case Study. *Journal of Management in Engineering* 33(4), pp. 05017001-1-8. (2017) [DOI: 10.1061/\(ASCE\)ME.1943-5479.0000519](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000519) [IF: 2.282. GS: 2.]
 14. [Kim, A.](#), Sadatsafavi, H., Anderson, S., & Bishop, P. Preparing for the Future of Transportation Construction: Strategies for State Transportation Agencies. *Journal of Management in Engineering* 33(3), pp. 04016045-1-11. (2017) [DOI: 10.1061/\(ASCE\)ME.1943-5479.0000494](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000494) [IF: 2.282. GS: 4.]
 15. Wang, S. ³, [Kim, A.](#), & Johnson, E. Understanding the Deterministic and Probabilistic Business Cases for Occupant Based Plug Load Management Strategies in Commercial Buildings. *Applied Energy* 191, pp. 398-413. (2017) [DOI: 10.1016/j.apenergy.2017.01.082](https://doi.org/10.1016/j.apenergy.2017.01.082) [IF: 8.426. GS: 5.]
 16. Kosonen, H. ¹ & [Kim, A.](#) Advancement of behavioral energy interventions in commercial buildings. *Facilities* 35(5/6), pp. 367-382. (2017) [DOI: 10.1108/F-04-2016-0044](https://doi.org/10.1108/F-04-2016-0044) [IF: Not available; CiteScore: 1.47. GS: 4.]

17. Wang, S.³, Kim, A., & Reed, D. Embedded Distribution Systems for Enhanced Energy Resilience. *Journal of Solar Energy Engineering – Transaction of the ASME* 139(1), pp. 011005 (2017) [DOI: 10.1115/1.4035063](https://doi.org/10.1115/1.4035063) [IF: 1.367. GS: 3.]
18. Sadatsafavi, H., Kim, A., & Soucek, M.K. Impact of Roles and Affiliations on End-Users' Acceptance of ERP Implementation in a Large Transportation Agency. *Journal of Management in Engineering* 32(6), pp. 05016018 -1-11. (2016) [DOI: 10.1061/\(ASCE\)ME.1943-5479.0000458](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000458) [IF: 2.282. GS: 1.]
19. Kim, A., Sadatsafavi, H., & Soucek, M.K. Effective Communication Practices for Implementing ERP for a Large Transportation Agency. *Journal of Management in Engineering* 32(3), pp. 04015049-1-11. (2016) [DOI: 10.1061/\(ASCE\)ME.1943-5479.0000415](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000415) [IF: 2.282. GS: 5.]
20. Kim, A., Anderson, S., & Haberl, J. Current Industry Methods of Quantifying Energy Service Projects: Key Findings and Lessons Learned. *Journal of Architectural Engineering* 22(2), pp. 04015015-1-11. (2016) [DOI: 10.1061/\(ASCE\)AE.1943-5568.0000191](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000191) [IF: Not available; CiteScore: 0.98. GS: 2.]
21. Kim, A., Haberl, J., & Anderson, S. Comparison between Current Industry Methods and an Energy Simulation Model for Quantifying Energy Service Projects. *Journal of Architectural Engineering*, 22(2), 04015016-1-12. (2016) [DOI: 10.1061/\(ASCE\)AE.1943-5568.0000192](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000192) [IF: Not available; CiteScore: 0.98. GS: 2.]
22. Kim, A., & Arditi, D. Performance of MBE/DBE/WBE Construction firms in Transportation Projects. *Journal of Construction Engineering and Management*, 136(7), 768-777. (2010) [DOI: 10.1061/\(ASCE\)CO.1943-7862.0000182](https://doi.org/10.1061/(ASCE)CO.1943-7862.0000182) [IF: 2.201. GS: 14.]
23. Kim, A., & Arditi, D. Performance of minority firms providing construction management services in the US transportation sector. *Construction Management and Economics*, 28(8), pp. 839-851. (2010) [DOI: 10.1080/01446193.2010.483331](https://doi.org/10.1080/01446193.2010.483331) [IF: Not available; CiteScore: 2.09. GS: 13.]

Conference proceedings and other non-journal articles (fully refereed)

1. Recart, C.¹, Kim, A., & Dossick, C. Measurements and Verification (M&V) Guidelines for Weatherization Plus Health Program. *ASCE- Construction Research Congress*. Tempe, Arizona. March, 2020.
2. Horn, E.¹, Kim, A., & Dodd, M. Pursuing Positive Water Quality Outcomes in a Healthy & Sustainable Built Environment. *ASCE- Construction Research Congress*. Tempe, Arizona. March, 2020.
3. Medal, L.¹ & Kim, A. Context-Driven Factors for Implementing Energy Efficiency Retrofit in a Portfolio of Buildings. *ASCE- Construction Research Congress*. Tempe, Arizona. March, 2020.
4. Prozuments, A.¹, Kim, A. & Borodinecs, A. Evaluation of the Building Stock Thermal Performance Under Various Building Code Compliance Scenarios: The Case of Latvia. *ASCE- Construction Research Congress*. Tempe, Arizona. March, 2020.
5. Sadatsafavi, H., Kim, A., Anderson, S., and Bishop, P. Using Scenario Planning for Identifying Major Future Trends and Their Implications for State Transportation Agencies. *International Conference on Sustainable Infrastructure*. New York, NY. October, 2017.
6. Sadatsafavi, H., Shepley, M., Kim, A., & Huynh, H.³ How Do Green Healthcare Facilities Perform Financially When Compared to Non-Green Hospitals Overtime? Results from a

- National Database. *International Conference on Sustainable Infrastructure*. New York, NY. October, 2017.
7. Medal, L.¹ & Kim, A. Synthesizing the Heuristic Rules of Prioritizing Energy Resource Conservation Measure in Portfolio of Buildings. *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
 8. Kosonen¹ & Kim, A. Managing Wastewater During Refugee Crisis – Comparing the Lessons Learned from Finland and Jordan. *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
 9. Kosonen¹ & Kim, A. Rainwater System to Concrete Laboratory – An Interdisciplinary Approach to Sustainability Education. *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
 10. Coffland, M.¹, Kim, A., Sadatsafavi, H., & Uber, M. Improved Data Storage for Better Safety Analysis and Decision Making in Large Construction Management Firms. *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
 11. Kosonen, H.¹ & Kim, A. Towards a Holistic Perspective on Environmentally Sustainable Behavior: A Method for Linking Travel Attitudes with Electricity Consumption Data. *Construction Research Congress*. San Juan, Puerto Rico. June, 2016.
 12. Kosonen, H.¹ & Kim, A. Quantifying Plug Load Energy Use in a LEED Gold Building – Lessons Learned in the Installation Phase. *Construction Research Congress*. San Juan, Puerto Rico. June, 2016.
 13. Kim, A., Wang, S.³, & Reed, D. Thermal Comfort Assessment through Measurements in a Naturally Ventilated LEED Gold Building. *5th International/11th Construction Specialty Conference*. Vancouver, Canada. June, 2015.
 14. Kosonen, H.¹ & Kim, A. The Feasibility of Plug-load Monitoring and Energy-saving Interventions in Residential and Office Buildings on the University of Washington Campus. *5th International/11th Construction Specialty Conference*. Vancouver, Canada. June, 2015.
 15. Yeon, J., Walewski, J., and & Kim, A. IPRA Tool Compatibility Test for the International Nuclear Power Plant Construction. *51st ASC Annual International Conference*. College Station, Texas. September, 2015.
 16. Kim, A., Faghihi, V., Hessami, A., & Ford, D. Designing Perpetual Sustainability Improvement Programs for Built Infrastructures. *30th International Conference of the System Dynamics Society*. St. Gallen, Switzerland. July, 2012

Conference proceedings and other non-journal articles (refereed by abstract only)

None.

Complete books written

None.

Chapters in edited books

None.

Books edited

None.

Journal issues edited

None.

Patents

None.

Papers submitted

1. Reed, D. & Kim, A. Interdisciplinary Approach to Building Functionality for Weather Hazards. [IF: 2.564]
2. Kim, A., Wang, S.², McCunn, L. & Sadatsafavi, H. Impact of Office Modernization on Environmental Satisfaction: A Naturalistic Field Study. [CiteScore: 2.14]

Abstracts, letters, non-refereed papers, technical reports

Reports

1. Kim, A., & Wang, S.², Medal, L.¹, & Sadatsafavi, H. *Linear Scheduling Evaluation and Best Practices Development Phase I Report*. Prepared for Washington State Department of Transportation. August 2019.
2. Kim, A., & Wang, S.³ *Bellevue City Hall - Fitwel Certification*. Prepared for the City of Bellevue. April, 2018.
3. Kim, A., & Wang, S.³ *Bellevue City Hall Indoor Air Quality Assessments*. Prepared for the City of Bellevue. July, 2017.
4. *Phase II Special Report for Task 7.1: Prepare for Visioning Workshop to the NCHRP on Project NCHRP 20-83(03) Long-Range Strategic Issues Affecting Preservation, Maintenance, and Renewal of Highway Infrastructure*. Prepared for the NCHRP 20-83(03) Panel Committee. June, 2014.
5. Anderson, S., Kim, A., Sadatsafavi, H., Quiroga, C., Overman, J., Choi, K., Goodrum, P., Taylor, T., & Li, Y. *Effective Project Scoping Practices to Improve On-time and On-budget delivery of Highway Projects*. Prepared for the NCHRP 08-88 Panel Committee. June, 2013.
6. *Phase II Special Report for Task 6: Prepare Transportation-Area White Paper Visions to the NCHRP on Project NCHRP 20-83(03) Long-Range Strategic Issues Affecting Preservation, Maintenance, and Renewal of Highway Infrastructure*. Prepared for the NCHRP 20-83(03) Panel Committee. April, 2013.
7. *Phase I Interim Report to the National Cooperative Highway Research Program (NCHRP) on Project NCHRP 20-83(03) Long-Range Strategic Issues Affecting Preservation, Maintenance, and Renewal of Highway Infrastructure*. Prepared for the NCHRP 20-83(03) Panel Committee. June, 2014.

Other significant research dissemination

OTHER SCHOLARLY ACTIVITY

Invited lectures and seminars

1. Cost Risk Estimating Management (CREM) Community of Practice Meeting. *Linear Scheduling Tools and Performance Metrics Assessment*. Washington State Department of Transportation, Vancouver, WA. June 12, 2019.
2. Fulbright Joint-Research Seminar. *Decision Making in Building Retrofits for Energy Efficiency*. Institut Teknologi Bandung. Jakarta, Indonesia. February 6, 2019.
3. Naval Facilities Engineering Command Seminar. *UW Energy Security/Resilience Presentation*. US Navy. Everett, WA. October 12, 2018.
4. Center for Sustainable Infrastructure Development Seminar Series. *Better Health through Better Building*, University of Indonesia. Jakarta, Indonesia. March 15, 2018.
5. Campus Engineering & Operations. *Lighting retrofits in the UW Tower*. University of Washington. Seattle, WA. March 2, 2018.
6. Center for Sustainable Infrastructure Development Seminar Series. *Future Green Buildings in the Context of Smart Cities*. University of Indonesia. Jakarta, Indonesia. March 20, 2017.
7. King County Sustainable Cities Roundtables. *Healthy building certification and standards*. Bellevue, WA. February 15, 2018.
8. Center for Sustainable Infrastructure Development – Focus Group Workshop. *Green Building – Global Perspective*. University of Indonesia. Jakarta, Indonesia. March 21, 2017.
9. 2nd NIAC Workshop on Urban Science & Engineering. *Understanding the Impact of Human Decision-making and Behavior on Sustainable Infrastructure Management*. Seattle, WA. February 2, 2016.

Presentations given at conferences (presenter names in bold)

1. **Kim, A.**, Medal, L.¹, Wang, S.², & Larson, T. “Indoor and Outdoor Concentration of Particulate Matter in an Airport Terminal Building: A study at Soekarno-Hatta International Airport in Indonesia.” *Healthy Buildings 2019 Asia*. Changsha, China. October, 2019.
2. **Kim, A.**, McCunn, L., Wang, S.², & Prozuments, A.¹ “Psychoacoustical Research Pertaining to the Healthy Workspace.” *International Workshop on Putting Sustainability into Convergence: Connecting Data, People, and Systems*. Central Region, Singapore. January, 2019.
3. Bramono, N.¹, **Kim, A.**, & Berawi, M. A Preliminary Framework for Expediting Energy Efficiency Retrofits (EERs) Using Alternative Financing in Indonesian Cities. *International Conference of Infrastructure and Sustainable Urban Development*. Jakarta, Indonesia. November, 2018.
4. **Wang, S.**², Kim, A., & Reed, D. “Risk reduction through building energy resiliency.” *Lloyd’s Day at Rice University*. Houston, TX. October, 2018.
5. Medal, L.¹, **Kim, A.**, Mohammed, A., & Miraj, P., “Understanding global adoption potentials for healthy building rating systems - an international perspective.” *The 2018 Health in Buildings for Today and Tomorrow: Making Connections Conference*. Bethesda, MD. July, 2018.
6. **Wang, S.**², Kim, A., Kim, J., & Reed, D. “Predictive modeling of window opening behavior of occupants in small office space.” *The 2018 Health in Buildings for Today and Tomorrow: Making Connections Conference*. Bethesda, MD. July, 2018.
7. **Wang, S.**², Prozument, A.¹, Atienza, C.¹, Huy, H.¹, & Kim, A., “Monitoring the indoor air exposure on construction workers during an office interior modernization program.” *The 2018 Health in Buildings for Today and Tomorrow: Making Connections Conference*. Bethesda, MD. July, 2018.

8. **Kim, A.** & Wang, S², “Implication of the measurement and verification process of the latest healthy building standards.” *The 2018 Health in Buildings for Today and Tomorrow: Making Connections Conference*. Bethesda, MD. July, 2018.
9. McCunn, L., **Kim, A.**, & Feracor, J.³, “Office building occupants’ response to an advanced human-centered, technology-drive lighting system.” *The 2018 Health in Buildings for Today and Tomorrow: Making Connections Conference*. Bethesda, MD. July, 2018
10. **Reed, D.**, Kim, A. & Wang, S². “Using Building Functionality Metrics for Performance & Resilience Assessment of Energy Infrastructure.” *Engineering Mechanics Institute Conference 2018*. Cambridge, MA. May-June, 2018.
11. **Atienza, C.**¹, Wang, S.², & Kim, A. “Investigation of Indoor Environment Quality (IEQ) during Construction and Renovation in the UW Tower.” *UW Undergraduate Research Symposium*. Seattle, WA. May, 2018.
12. **Kim, A.** & Medal, L.¹, Review of Sustainability Strategies of U.S. Universities and Federal Buildings.” *The Association for the Advancement of Sustainability in Higher Education Conference*. San Antonio, TX. October, 2017.
13. Wang, S.³, Kim, A., & **Johnson, E.** Analyzing the ROI of Conducting Occupant Energy Saving Intervention Using Deterministic and Probabilistic Approaches.” *Behavior, Energy & Climate Change Conference*. Sacramento, CA. October, 2017.
14. **Kosonen, H.**¹, Gough, H., Kim, A., & Abu-Dalo, M. “Exploring Stakeholder Decision Practices During Azraq Wastewater Treatment Plan Startup.” *First International Conference on Water Management in Arid Land & Semi-arid Land*. Irbid, Jordan. October, 2017.
15. **Kosonen, H.**¹ & Kim, A. “Improving Decision Practices at Wastewater Treatment Plants During Crisis.” *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
16. **Kosonen, H.**¹ & Kim, A., “Rainwater system to concrete laboratory-An interdisciplinary approach to sustainability education.” *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
17. **Medal, L.**¹ & Kim, A. “Synthesizing the Heuristic Rules of Prioritizing Energy Resource Conservation Measure in Portfolio of Buildings.” *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
18. **Coffland, M.**¹, Kim, A., Sadatsafavi, H., & Uber, M. “Improved Data Storage for Better Safety Analysis and Decision Making in Large Construction Management Firms.” *6th CSCE-CRC International Construction Specialty Conference*. Vancouver, Canada. May, 2017.
19. **Wang, S.**³, Kim, A., & Johnson, E. "Analyzing the ROI of Conducting Occupant Energy Saving Intervention Using Deterministic and Probabilistic Approaches." *Production and Operations Management Society (POMS) 28th Annual Conference*. Seattle, WA. May, 2017.
20. **Kosonen, H.**¹ & Kim, A. “Improving Decision Practices at Wastewater Treatment Plants During Crisis” *New Frontiers in Construction Conference*. Seattle, WA. March, 2017.
21. **Medal, L.**¹ & Kim, A. “Prioritizing Energy Efficiency Investment in Buildings.” *New Frontiers in Construction Conference*. Seattle, WA. March, 2017.
22. **Gough, H. L.**, Kosonen, H.¹, Callahan, C., Awawdeh, A., Abu-Ashour, J., Abu-Dalo, M., & Kim, A. “Wastewater treatment at a Syrian refugee camp: Impacts of shifting operational scenarios on system performance.” *Gordon Research Conference, Environmental Sciences: Water*. Holderness, NH. June, 2016.
23. **Kosonen, H.**¹, & Kim, A. “Towards a Holistic Perspective on Environmentally Sustainable Behavior: A Method for Linking Travel Attitudes with Electricity Consumption Data.” *Construction Research Congress*. San Juan, Puerto Rico. June, 2016.

24. **Kosonen, H.¹**, & Kim, A. “*Quantifying Plug Load Energy Use in a LEED Gold Building – Lessons Learned in the Installation Phase.*” *Construction Research Congress*. San Juan, Puerto Rico. June, 2016.
25. **Kim, A., Lew, J.³**, Swanson, T., Bybee, S., Eknoian, J., Kennard, S., & Quarfoth, G. “Applying Sustainability Practices to Lighting Retrofits in the UW Tower.” *UW’s Annual Environmental Stewardship Committee Meeting*. Seattle, WA. April, 2016.
26. **Kosonen, H.¹** & Kim, A. “The Feasibility of Plug-load Monitoring and Energy-savings Interventions in Office Buildings” *SustainableUW Festival (Husky Highlight: Energy and Innovation)*. Seattle, WA. October, 2015.
27. **Lew, J.³** & Kim, A. “Value-driven Property Investment Strategy for Indoor Lighting in the UW Tower.” *SustainableUW Festival*. Seattle, WA. October, 2015
28. **Kim, A., Wang, S.³**, & Reed, D. “Thermal Comfort Assessment Through Measurements in a Naturally Ventilated LEED Gold Building.” *5th International/11th Construction Specialty Conference*. Vancouver, Canada. June, 2015.
29. **Kosonen, H.¹** & Kim, A. “The Feasibility of Plug-load Monitoring and Energy-saving Interventions in Residential and Office Buildings on the University of Washington Campus.” *5th International/11th Construction Specialty Conference*. Vancouver, Canada. June, 2015.
30. **Kim, A., Wang S.³**, & Reed, D. “Analysis of the Indoor Environment Quality for a LEED Gold Commercial Building.” *Annual Conference on Environmental, Occupational, and Population Health*. Blaine, WA. January, 2015.
31. **Kim, A., Sadatsafavi, H., Soucek, K., & Anderson, S.** “An Integrated Approach to Implementing Enterprise Resource Planning Systems for a Large Transportation Agency. *Transportation Research Board 94th Annual Meeting*. Washington, D.C. January, 2015.
32. Kim, A., **Wang, S.³**, & Reed, D. “Indoor Environment Quality Assessment.” *SustainableUW Festival*. Seattle, WA. October, 2014.

Professional society memberships

- American Institute of Architects, 2001-2006, 2015-2017
- American Society of Civil Engineers, 2015-present
- American Society of Heating, Refrigerating and Air Conditioning Engineers, 2012-2016
- Construction Management Association of America, 2006-2009
- Construction Specification Institute, 2001-2006
- Illuminating Engineering Society, 2015-2016
- International Facility Management Association, 2017-present
- Transportation Research Board, 2012-present
- U.S. Green Building Council, 2007-present

Referee / Reviewer

Publication	Reviews Completed	Years Active
Building Simulation	1 article	2019
Energy Efficiency	1 article	2018
Energy Research and Social Science	2 articles	2016
Facilities	1 article	2019
International Journal of Environment and Waste Management	1 article	2018

International Journal of Sustainability in Higher Education	1 article	2019
Journal of Management in Engineering	9 articles	2016-2019
Transportation Research Board / Transportation Research Record	16 articles	2015-2019
Journal of Computing in Civil Engineering	2 articles	2015-2017
Journal of Construction Engineering and Management	1 article	2018

GRADUATE STUDENTS

Chaired Doctoral Degrees

Student	Dissertation Title	Completed (Year)	Current Employer
Heta Karoliina Kosonen	<i>Pathways toward Rapid Wastewater Treatment Response during the Global Refugee Crisis</i>	(2018)	UNICEF

Current Doctoral Students

Student	My Role	Status	Title or Topic
Erin Horne	Co-chair (w/Gundula Proksch)	Started 2019 Fall	<i>Food-Water-Energy Nexus in Buildings</i>
Novi Triadi Iman Bramono ¹	Chair	Started 2019 Fall	<i>Healthy Building IAQ during PNW Wildfires</i>
Carolina Andrea Recart ²	Co-chair (w/Carrie Dossick)	Pre-qualifying exam	<i>Building Performance Measurement of Weatherization Plus Health for Low Income Family Homes</i>
Lysandra Amante Medal ¹	Chair	Passed qualifying exam 2017	<i>Prioritizing Energy Conservation Measures for a Portfolio of Buildings</i>

¹PhD funded 100% by the Indonesia government through Indonesia Endowment Fund for Education

²PhD funded 100% by Fulbright through Equal Opportunities Fulbright – CONICYT Scholarship

Chaired Masters Degrees

Student	My Role	Finish Date	Thesis / Project Title	First Employer
Patricia Hunhold	Chair	Summer 2019	Non-thesis based	-
Shih-Chi Liu	Chair	Summer 2018	Non-thesis based	Hathaway Dinwiddie Construction
Bitu Astaneh Asl	Co-Chair (w/Carrie)	Spring 2018	<i>Value Proposition of COBie at University of</i>	Continued to PhD (w/Carrie Dossick)

	Dossick)		Washington	
Lysandra Amante Medal ¹	Chair	Spring 2017	Non-thesis based	Continued to PhD

Current Masters Students

Student	My Role	Status	Thesis / Project Title
Uzma Siddiqi, PE	Chair	Fall 2019	Non-thesis based (with intention of pursuing PhD)

Other significant student supervision

Ph.D. Committees

- Julian Yamamura (Graduated Fall 2018)
- Miriam Hacker (Graduated Fall 2018)
- Aleksejs Prozuments (Riga Technical University, Anticipated graduation year 2020, co-chair with Anatolijs Borodinecs)

Graduates

- Erin Horn, graduate researcher (Assessing Healthy Building Water), 2019
- Shuoqi Wang, graduate researcher (Assessing the Built Environment and Energy Savings), 2014-2017 (Continued as post-doc from 2017-present)
- James Lew/Feracor, graduate researcher (Indoor Lighting Retrofit), 2015-2017

Visiting Scholar

- Yos, Sunitiyoso, PhD (visiting scholar at UW/Fulbright, 2018 Fall quarter)

Visiting Students

- Aleksejs Prozuments (visiting Ph.D. student at UW/Valle Scholar, 2017-18)
- Michael Taborn, University of Michigan (visiting MS student at UW, 2015)

Undergraduates

- Colleen Hong, Washington State Academic RedShirt Program Cohort advisor (Indoor Air Quality Assessment in the UW Tower), 2019 – present
- Jannah Bongato, Washington State Academic RedShirt Program Cohort advisor, 2019 – present
- Rebecca Lilliquist, undergraduate research advisor (Indoor Air Quality Assessment in the UW Tower), 2019 – present
- Maria Carla Beatriz Marigmen, undergraduate capstone advisor (Analyzing Sports Facilities Operations), 2018 Winter, Spring quarters
- Casiano Atienza, Washington State Academic RedShirt Program Cohort advisor (Indoor Air Quality Assessment in the UW Tower), 2016 – 2018
- Hyu Huynh, undergraduate research advisor (Performance of LEED-certified Residence Halls on Operation and Maintenance Cost), 2016-2017

RESEARCH ACTIVITIES

Funded Research

Funding Agency	Title	Your role with other PI's and	Dates (start -
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		co-PI's	finish)
WSDOT	<i>Linear scheduling evaluation and best practices development</i>	PI	4/2018–6/2021
UW - Global Innovation Fund	<i>Bridging STEM disciplines and Southeast Asian Studies</i>	PI	1/2019-12/2019
U.S. Department of Education	Southeast Center Title VI grant – Study Abroad to Indonesia	Center fund	9/2018-9/2021
NSF	<i>RAPID: Well and Profitable during Pacific Northwest Fires: modeling I-O air pollution measured by fine and ultra-fine particulate matters</i>	PI	9/2018-08/2020
City of Bellevue	<i>Healthy Building (Fitwel) Certification for the City Hall Building</i>	PI	6/2017-12/2017
City of Bellevue	<i>Volatile Organic Compounds (VOC) and Particulate Matter (PM) Assessment in the City Hall Building</i>	PI	6/2017-12/2017
UW - Global Innovation Fund	<i>Integrated solutions for the built environment: A global perspective (Indonesia)</i>	PI	1/2017-4/2018
NSF	<i>RAPID: Avoiding Secondary Disasters: Wastewater Treatment Design and (Re)construction during Large-Scale Disaster Response</i>	Co-PI	8/2015-12/2016
UW-Green Seed	<i>Value-driven Property Investing Strategy for the UW Campus – A Lighting Example</i>	PI	2/2015-6/2016
Texas A&M Research Foundation	<i>Long Range Strategic Issues Affecting Preservation, Maintenance, and Renewal of Highway Infrastructure</i>	PI	2/2014-4/2014

Un-sponsored research

Developing Conceptual Design of Transit Oriented Development through Added Value (United States Agency for International Development), project collaboration with University of Indonesia). 2019 – present.

Impact of changed workplace design on Indoor Environmental Quality (IEQ) and employee performance and satisfaction. 2016 – present.

Measurement of Air, Water, Light, and Comfort levels in a LEED Gold Building following the WELL/Fitwel healthy building standard. 2016 – present.

DOCUMENTATION OF TEACHING EFFECTIVENESS

Courses Taught

CEE 307: Construction Engineering
CEE 429: Sustainability in Building Infrastructure
CEE 441: Transportation and Construction Capstone
CEE 599: Sustainable and Healthy Building in Global Context

CESI 504: Buildings, LEED and Energy Use

Supervision of independent study (design projects and research)

Course	Title or Student Name	Quarter	# of Students (Total Credit Hrs)
CEE 498	Rempp, Kiley <i>Linear scheduling model in transportation project</i>	SU 2019	1(1)
CEE 499A	Long, Guan <i>Utilization of passive ventilation and daylight strategies in LEED rating system</i> Nicole, Wong <i>The progression of LEED's Water efficiency credits: Balancing water efficiency and water quality</i>	SP 2019	2(2)
CEE 600	Horn, Erin <i>Building premise plumbing – healthy water</i>	WN 2019	1(2)
CEE 498	Rempp, Kiley <i>Stakeholder engagement and agreement during multimodal transportation planning process</i>	SP 2018	1(3)
CEE 601 B	Liu, Shih-Chi <i>Internship debrief report at the Hathaway Dinwiddie Construction Company</i>	SU 2017	1(2)
CEE 499A	Lee, Anna <i>Project prioritization within generation operations and engineering division at the Seattle City Light</i>	SP 2017	1(3)

List of other teaching contributions

New Courses Developed

CEE 429: Sustainability in Building Infrastructure

CEE 599: Sustainable and Healthy Building in Global Context

CESI 504: Buildings, LEED and Energy Use

Other supporting documents

None.

Teaching Awards, Nominations for Teaching Awards

None.

SERVICE

Departmental Service

Faculty advisor, American Public Works Association (APWA) student chapter, 2018 – present.
Member, Undergraduate Education Committee, 2018 – present.

Member, Faculty Affairs Committee, 2016 – 2018.
Member, Environmental Engineering Faculty Search Committee, 2014-2015.
Member, Departmental Affairs Committee, 2014 – 2016.

College Service

Faculty mentor, UW STARS (State Academic RedShirt) students, 2016 – present.

University Service

Member, UW Green Building Standard Committee, 2016 – 2019.
Member, UW Sustainability, Plan Management Team, 2019-present.
College of Engineering representative, UW Environmental Stewardship Committee, 2019-present.
Team lead, UW Tower Fitwel Certification Team, 2018-present.

Professional society and other service

Transportation Research Board

- Standing Committee on Construction Management (AFH10). Member (2014 – present).

Journal Editorship

- ASCE Journal of Management in Engineering. Member of editorial board (2017-present)
- CSID Journal of Infrastructure Development. Member of editorial board (2018 – present)
- Frontiers in Built Environment. Special guest editor (2019 - present)

National Institute of Health

- Health in Building Roundtable. Scholar (2018-present)

Community Service

Policymaker Engagement

1. Washington State Department of Commerce. *Building Efficiency and Resilience*. Olympia, WA. June 14, 2018.
2. Washington State Department of Commerce. *Building Efficiency Opportunities in the State of Washington*. Olympia, WA. April 19, 2018.
3. Bellevue School District, Office of Capital Projects. *Jing Mei Elementary School IAQ Study*. Bellevue, WA. September 29, 2017.
4. City of Bellevue, Department of Resource Conservation. *Initial assessment of indoor air quality at the Bellevue City Hall*. Bellevue, WA. June 26, 2017.
5. City of Bellevue, Department of Resource Conservation. *Quantifying the ROI for Plug Load Behavior Interventions in Bellevue City Hall*. Bellevue, WA. March 16, 2017.
6. Office of Sustainability and Environment. *Recent Research Efforts in Energy Use in Commercial Buildings*. City of Seattle. October 2, 2014.
7. US Department of Housing and Urban Development. *Recent Research Efforts in Energy Use in Residential Buildings*. Seattle, WA. August 1, 2014.

Industry Engagement

1. Turner Construction. *Emerging Trends in Sustainable Buildings and LEED rating system*. March 23, 2017. Jakarta, Indonesia.
2. Sinar Mas Group. *Emerging Trends in Sustainable Buildings, Implications for Green Property Development in Indonesia*. March 22, 2017. South Tangerang, Indonesia.
3. T-Mobile, Corporate Real Estate. *Factors Influencing Audio Visual Technology Adoption: A Case Study at T-Mobile*. March 28, 2017. Bellevue, WA.

4. Amazon.com Inc., Corporate Real Estate, *Recent Research Efforts in Implementation of Retrofit Strategies for Portfolio of Buildings*. June 24, 2016. Seattle, WA.

Non-profit Engagement

1. The Perkins School. Volunteer for designing and advising owners on installing a rainwater catchment system for Living Building Challenge modular unit. Seattle, WA. 2014 Fall.

International, national or governmental service

- Panel member, Transportation Research Board-National Cooperative Highway Research Program Synthesis Project (2018-present)
- Member, International Energy Agency, Energy in Buildings Communities Programme Annex 79: Occupant Behaviour-centric Building Design and Operation (October 2019-September 2023)
- Member, U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Pilot Committee (January 2019 - December 2019)
- Review panelist for National Science Foundation (NSF): Environmental Engineering (2019)