

# AMY A. KIM

*Curriculum Vitae*

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Civil and Environmental Engineering  
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## EDUCATIONAL HISTORY

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Texas A&M University (TAMU), College Station, Texas

PhD, Civil Engineering

May 2014

Dissertation: *A Comparative Analysis of Predicting Energy Savings from Energy Service Projects*

Illinois Institute of Technology (IIT), Chicago, Illinois

Master of Science, Civil Engineering

December 2008

Thesis: *Performance of MBE/DBE/WBE Construction/CM Firms in Transportation Projects*

University of Illinois, Urbana-Champaign, Illinois

Bachelor of Science, Architectural Studies

May 2001

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## EMPLOYMENT HISTORY

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University of Washington

Seattle, WA, USA

Assistant Professor, 2014 - present

Texas A&M Transportation Institute (TTI)

College Station, TX, USA

Researcher Assistant, 2013-2014

Texas A&M University

College Station, TX, USA

Researcher Assistant, 2009-2013

Primera Engineers

Chicago, Illinois, USA

Fulltime Project Engineer, 2007-2009

DLA Architects, Ltd.

Itasca, Illinois, USA

Fulltime Architect, 2006-2007

Earth Tech (now part of AECOM)

Oakbrook, Illinois, USA

Fulltime Architect, 2001-2005

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## AWARDS AND HONORS

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1. Poster Award (2nd), 2017, Center for Education and Research in Construction New Frontiers in Construction Conference, Seattle, WA
2. 2015 Outstanding Faculty Mentor Award, 2015, University of Washington Department of Civil & Environmental Engineering
3. Best Paper Award, 2015, CSCE International Construction Specialty Conference Vancouver, BC
4. New Scholar Program Fellow, 2014, Construction Industry Institute (CII)
5. Civil Engineering Teaching Fellowship for Doctoral Candidates, 2012, TAMU
6. Urban/Beavers Fellowship, 2012, TAMU
7. Williams Brothers Construction Fellowship, 2012, TAMU
8. TAMU Department of Civil Engineering Outstanding Graduate Student Award, 2012, TAMU
9. Greenbuild International Conference Multimedia Visual Competition (2nd), 2011, USGBC
10. Williams Brothers Construction Fellowship, 2011, TAMU
11. Peter C. Forster (Clark Construction) Fellowship, 2009, TAMU
12. Primera Engineers Education Scholarship, 2008, Primera Engineers
13. Construction Management Association of America (CMAA) Chicago Regional Chapter Scholarship, 2007, CMAA
14. IIT Dean's Fellowship, 2006, IIT
15. Construction Specification Institute (CSI) Outstanding Service Award, 2004, CSI

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## AFFILIATIONS AND OTHER APPOINTMENTS

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The Henry M. Jackson School of International Studies, Southeast Asia Center, affiliated with the program and listed as core faculty (2018 - present)

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## PUBLICATIONS

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### Refereed archival journal publications

1. Bramono, N., **Kim, A.**, and Berawi, M. (11/1/2018 accepted). A Preliminary Framework for Expediting Energy Efficiency Retrofits (EERs) Using Alternative Financing in Indonesian Cities. *CSID Journal of Infrastructure Development*
2. Sadatsafavi, H., **Kim, A.**, Anderson, S., and Bishop, P. (09/04/2018, accepted). Scenario Planning Application in the Transportation Industry – Case Study of the United States Highway Transportation Industry. *Journal of Infrastructure Systems*
3. Kosonen, H., **Kim, A.**, Gough, H., Mikola, A., and Vahala, R. (2018). A comparative study on rapid wastewater treatment response to refugee crisis. *Global Challenges*, p.1800039.
4. **Kim, A.**, Sadatsafavi, H., Medal, L., and Ostergren, M. (2018) Communication Strategies for Achieving Campus Sustainability. *Resources, Conservation & Recycling*, V139, 366-376. <https://doi.org/10.1016/j.resconrec.2018.08.024>

5. McCunn, L., **Kim, A.**, and Feracor, J. (2018). Reflection on retrofit: Organizational commitment, perceived productivity and controllability in a building lighting project in the United States. *Energy Research & Social Science*, V38, 154-164. <https://doi.org/10.1016/j.erss.2018.02.002>
6. Kosonen, H., and **Kim, A.** (2018). Mental models approach to wastewater treatment plant project delivery during emergency response. *Journal of Construction Engineering and Management*, V144(6), [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001488](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001488)
7. **Kim, A.**, McCunn, L., and Lew, J. (2017). Successful Change-Management Practices for Retrofit Projects: A Case Study. *Journal of Management in Engineering*, V33 (4), 05017001-1-8. [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000519](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000519)
8. **Kim, A.**, Sadatsafavi, H., Anderson, S., and Bishop, P. (2017). Preparing for the Future of Transportation Construction: Strategies for State Transportation Agencies. *Journal of Management in Engineering*, 33(3), 04016045-1-11. [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000494](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000494)
9. Wang, S., **Kim, A.**, and Johnson, E. (2017). Understanding the Deterministic and Probabilistic Business Cases for Occupant Based Plug Load Management Strategies in Commercial Buildings. *Applied Energy*, 191, 398-413. <https://doi.org/10.1016/j.apenergy.2017.01.082>
10. Kosonen, H., and **Kim, A.** (2017). Advancement of behavioral energy interventions in commercial buildings. *Facilities*, 35(5/6), 367-382. <https://doi.org/10.1108/F-04-2016-0044>
11. Wang, S., **Kim, A.**, and Reed, D. (2017). Embedded Distribution Systems for Resilient, Sustainable Buildings. *Journal of Solar Energy Engineering*, 139(1), 011005.
12. Sadatsafavi, H., **Kim, A.**, and Soucek, M. (2016). "Impact of Roles and Affiliations on End-Users' Acceptance of ERP Implementation in a Large Transportation Agency." *Journal of Management in Engineering*, 32(6), 05016018. [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000458](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000458)
13. **Kim, A.**, Anderson, S., and Haberl, J. (2016). "Current Industry Methods of Quantifying Energy Service Projects: Key Findings and Lessons Learned." *Journal of Architectural Engineering*, 22(2), 04015015. [https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000191](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000191)
14. **Kim, A.**, Haberl, J., and Anderson, S. (2016). "Comparison between Current Industry Methods and an Energy Simulation Model for Quantifying Energy Service Projects." *Journal of Architectural Engineering*, 22(2), 04015016. [https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000192](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000192)
15. **Kim, A.**, Sadatsafavi, H., and Soucek, K. (2015). "Effective Communication Practices for Implementing ERP for a Large Transportation Agency." *Journal of Management in Engineering*, 32(3), 04015049. [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000415](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000415)

16. **Kim, A.**, and Arditi, D. (2010). "Performance of minority firms providing construction management services in the US transportation sector." *Construction Management and Economics*, 28(8), 839-851. <http://dx.doi.org/10.1080/01446193.2010.483331>
17. **Kim, A.**, and Arditi, D. (2010). "Performance of MBE/DBE/WBE Construction firms in Transportation Projects." *Journal of Construction Engineering and Management*, 136(7), 768-777. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0000182](https://doi.org/10.1061/(ASCE)CO.1943-7862.0000182)

### Conference proceedings and other non-journal articles

- *Fully refereed publications*

1. Reed, D., **Kim, A.**, and Wang, S. (2018, May). *Forward and inverse modeling for performance and resilience assessment of civil structures*. Paper presented at ASCE's Engineering Mechanics Institute, Cambridge, MA.
2. Sadatsafavi, H., **Kim, A.**, Anderson, S., and Bishop, P. (2017). In Soibelman, L. and Pena-Mora, F. (Eds.), *Proceedings of the International Conference on Sustainable Infrastructure 2017: Policy, Finance, and Education, Using Scenario Planning for Identifying Major Future Trends and Their Implications for State Transportation Agencies* (pp.237-249). New York, NY.
3. Sadatsafavi, H., Shepley, M., **Kim, A.**, and Huynh, H. (2017, October). *How Do Green Healthcare Facilities Perform Financially When Compared to Non-Green Hospitals Overtime? Results from a National Database*. Paper presented at the ASCE International Conference on Sustainable Infrastructure, New York, NY. Retrieved from: <http://ascelibrary.org/doi/abs/10.1061/9780784481196.014>
4. Kosonen, H., Gough, H., **Kim, A.**, and Abu-Dalo, M. (2017, October) *Exploring Stakeholder Decision Practices During Azraq Wastewater Treatment Plan Startup*. Paper presented at the First International Conference on Water Management in Arid Land & Semi-arid Land, Irbid, Jordan.
5. Medal, L. and **Kim, A.** (2017, June). *Synthesizing the Heuristic Rules of Prioritizing Energy Resource Conservation Measure in Portfolio of Buildings*. Paper presented at the 6th International/11th Construction Specialty Conference, Vancouver, British Columbia.
6. Coffland, M., **Kim, A.**, Sadatsafavi, H., and Uber, M. (2017, June). *Improved Data Storage for Better Safety Analysis and Decision Making in Large Construction Management Firms*. Paper presented at the 6th International/11th Construction Specialty Conference, Vancouver, British Columbia.
7. Kosonen, H. and **Kim, A.** (2016, June). *Towards a Holistic Perspective on Environmentally Sustainable Behavior: A Method for Linking Travel Attitudes with Electricity Consumption Data*. Paper presented at the Construction Research Congress, San Juan, Puerto Rico. Retrieved from <https://doi.org/10.1061/9780784479827.130>
8. Kosonen, H. and **Kim, A.** (2016, June). *Quantifying Plug Load Energy Use in a LEED Gold Building – Lessons Learned in the Installation Phase*. Paper presented at the Construction Research Congress, San Juan, Puerto Rico. Retrieved from <https://doi.org/10.1061/9780784479827.124>

9. **Kim, A.**, Wang, S., Reed, D. (2015, June) *Thermal Comfort Assessment through Measurements in a Naturally Ventilated LEED Gold Building*. Paper presented at the 5<sup>th</sup> International/11<sup>th</sup> Construction Specialty Conference, Vancouver, British Columbia, doi: 10.14288/1.0076478
10. Kosonen, H. and **Kim, A.** (2015, June) *The Feasibility of Plug-load Monitoring and Energy-saving Interventions in Residential and Office Buildings on the University of Washington Campus*. Paper presented at the 5<sup>th</sup> International/11<sup>th</sup> Construction Specialty Conference, Vancouver, British Columbia, doi: 10.14288/1.0076491
11. Yeon, J., Walewski, J., and **Kim, A.** (2015, April) *IPRA Tool Compatibility Test for the International Nuclear Power Plant Construction*. Paper presented at the Associated Schools of Construction 51st Annual International Conference, College Station, Texas. Retrieved from <http://ascpro0.ascweb.org/archives/cd/2015/paper/CPGT386002015.pdf>
12. Walewski, J., Anderson, S., Yeon, J., and **Kim, A.** (2013, January). *Risk Framework for Next Generation Nuclear Power Plant Construction*. Paper presented at 5th International Conference on Construction Engineering and Project Management (ICCEPM), Anaheim, California.
13. **Kim, A.**, Faghihi, V., Hessami, A., and Ford, D. (2012, July). *Designing Perpetual Sustainability Improvement Programs for Built Infrastructures*. Paper presented at the 30th International Conference of the System Dynamics Society, St. Gallen, Switzerland. Retrieved from <https://www.systemdynamics.org/conferences/2012/proceed/papers/P1278.pdf>
14. Walewski, J. and **Kim, A.** (2011, June). *Tomorrow's University Graduate: Construction Industry Needs and Curriculum Enhancement*. Paper presented at the American Society of Engineering Education (ASEE) Annual Conference & Exposition, Vancouver, British Columbia. Retrieved from <https://peer.asee.org/18442>

#### **Abstracts, letters, non-refereed papers, technical reports**

1. **Kim, A.** and Wang, S. (2018, April). *Bellevue City Hall - Fitwel Certification*. Confidential report to the City of Bellevue.
2. **Kim, A.** and Wang, S. (2017, July). *Bellevue City Hall Indoor Air Quality Assessment*. Confidential report to the City of Bellevue.
3. Texas Transportation Institute (2014, June). *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*. Confidential report to NCHRP 20-83(03) Panel Committee.
4. Texas Transportation Institute (2013, April). *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*. Confidential report to NCHRP 20-83(03) Panel Committee.

5. Anderson, S., **Kim, A.**, Sadatsafavi, H., Quiroga, C., Overman, J., Choi, K., Goodrum, P., Taylor, T., and Li, Y. (2013, June). *Effective Project Scoping Practices to Improve On-time and On-budget delivery of Highway Projects*. Confidential report to NCHRP 08-88 Panel Committee.
6. Texas Transportation Institute (2011, July). *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*. Confidential report to NCHRP 20-83(03) Panel Committee.

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## OTHER SCHOLARLY ACTIVITY

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### **Invited lectures and seminars.**

1. US Navy, *Annual NAVY Energy & Recycling Fair*, Naval Station Everett, 2018 October
2. US Navy, *UW Energy Security/Resilience Presentation*, Naval Station Everett, 2018 October
3. WA Department of Commerce, Energy Academy ED Talk, *Building Efficiency and Resilience*, 2018 June
4. WA Department of Commerce, Energy Academy ED Talk, *Building Efficiency Opportunities in State of Washington*, 2018 April
5. Center for Sustainable Infrastructure Development at University of Indonesia in Jakarta, *Better Health through Better Building*, 2018 March
6. University of Washington Campus Engineering & Operations, *Lighting retrofits in the UW Tower*, 2018 March
7. King County Sustainable Cities Roundtables, *Healthy building certification and standards*, 2018 February
8. University of Washington Campus Engineering & Operations, *Integrating facility research into practice*, 2017 November
9. Bellevue School District, *Jing Mei Elementary School IAQ Study*, 2017 September
10. City of Bellevue Department of Resource Conservation, *Initial assessment of indoor air quality at the Bellevue City Hall*, 2017 June
11. University of Washington College of Engineering, *ENGR 498L: Topics in Construction, Energy, Infrastructure and Sustainability*, 2017 April
12. College of Engineering at University of Indonesia in Jakarta, *Future Green Buildings in the Context of Smart Cities*, 2017 March
13. Center for Sustainable Infrastructure Development at University of Indonesia in Jakarta, *Emerging Trends in Sustainable Buildings: Realizing Sustainable Construction Industry*, 2017 March

14. Sinar Mas Group in South Tangerang Indonesia, *Emerging Trends in Sustainable Buildings, Implications for Green Property Development in Indonesia*, 2017 March.
15. Turner Construction in Jakarta Indonesia, *Emerging Trends in Sustainable Buildings and LEED rating system*, 2017 March
16. City of Bellevue Department of Resource Conservation, *Quantifying the ROI for Plug Load Behavior Interventions in Bellevue City Hall*, 2017 March
17. T-Mobile Corporate Real Estate, *Factors Influencing Audio Visual Technology Adoption: A Case Study at T-Mobile*, 2017 March
18. University of Washington College of Engineering, *ENGR 598A: Preparing for Academic Careers in Engineering*, 2016 November
19. University of Washington and PNNL, *Smart Cities Discussion*, 2016 November
20. University of Washington Civil and Environmental Engineering, *Preparing for CEE's Career Fair and Interviews with Companies*, 2016 October
21. T-Mobile Corporate Real Estate, *Recent Research Efforts in Implementation of Retrofit Strategies for Portfolio of Buildings*, 2016 July
22. Amazon Corporate Real Estate, *Recent Research Efforts in Implementation of Retrofit Strategies for Portfolio of Buildings*, 2016 June
23. City of Bellevue Department of Resource Conservation, *Quantifying the ROI for Plug Load Behavior Interventions in Commercial Buildings*, 2016 June
24. University of Washington College of Built Environment PhD Colloquium, *Job Market/CV Development for first year PhD students*, 2015 May
25. University of Washington, *UW's West Campus Utility Plant (WCUP) Sustainability Workshop/Charrette*, 2015 January
26. University of Washington Campus Engineering and Operations, *UW's Smart Grid Research Opportunities*, 2014 December
27. UW Civil and Environmental Engineering and Tsinghua Delegation, *Green Buildings in the Context of Smart Cities*, 2014 September
28. US Department of Housing and Urban Development, *Recent Research Efforts in Energy Use in Residential Buildings*, 2014 August
29. City of Seattle Office of Sustainability and Environment, *Recent Research Efforts in Energy Use in Commercial Buildings*, 2014 October

**Presentations given at conferences.**

1. **Wang, S.**, Kim, A., and Reed, D. Risk reduction through building energy resiliency. Poster presented at Lloyd's Day at Rice University: "The Smart and Resilient City". 2018 Oct 4, Houston, Texas
2. Medal, L., **Kim, A.**, Mohammed, A., and 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, 2018 July
3. **Wang, S.**, Kim, A., Kim, J., and 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, 2018 July
4. **Wang, S.**, Prozument, A., Atienza, C., Huy, H., and 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, 2018 July.
5. **Kim, A.**, and Wang, S., "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, 2018 July.
6. McCunn, L., **Kim, A.**, and Feracor, J., "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, 2018 July.
7. **Atienza, C.**, Wang, S., and Kim, A., "Investigation of Indoor Environment Quality (IEQ) during Construction and Renovation in the UW Tower", UW Undergraduate Research Symposium, Seattle, WA, 2018 May.
8. **Kim, A.**, and Medal, L., "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, 2017 October.
9. Wang, S., Kim, A., and **Johnson, E.** "Analyzing the ROI of Conducting Occupant Energy Saving Intervention Using Deterministic and Probabilistic Approaches", *Behavior, Energy & Climate Change Conference*, Sacramento, CA, 2017 October.
10. **Kosonen, H.**, Gough, H., Kim, A., and 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, 2017 October.
11. **Kosonen, H.**, and Kim, A., "Improving Decision Practices at Wastewater Treatment Plants During Crisis", *6th International/11th Construction Specialty Conference*, Vancouver, British Columbia, 2017 June.
12. **Kosonen, H.**, and Kim, A., "Rainwater system to concrete laboratory-An interdisciplinary approach to sustainability education", *6th International/11th Construction Specialty Conference*, Vancouver, British Columbia, 2017 June.



13. **Medal, L.**, and Kim, A., “Synthesizing the Heuristic Rules of Prioritizing Energy Resource Conservation Measure in Portfolio of Buildings”, *6th International/11th Construction Specialty Conference*, Vancouver, British Columbia, 2017 June.
14. **Coffland, M.**, Kim, A., Sadatsafavi, H., and Uber, M., “Improved Data Storage for Better Safety Analysis and Decision Making in Large Construction Management Firms”, *6th International/11th Construction Specialty Conference*, Vancouver, British Columbia, 2017 June.
15. **Wang, S.**, Kim, A., and 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, Washington, 2017 May.
16. **Kosonen, H.**, and Kim, A., “Improving Decision Practices at Wastewater Treatment Plants During Crisis” *New Frontiers in Construction Conference*, Seattle, 2017 March.
17. **Medal, L.**, and Kim, A., “Prioritizing Energy Efficiency Investment in Buildings”, *New Frontiers in Construction Conference*, Seattle, 2017 March.
18. **Gough, H. L.**, Kosonen, H.<sup>2</sup>, Callahan, C., Awawdeh, A., Abu-Ashour, J., Abu-Dalo, M., and 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, 2016 June.
19. **Kosonen, H.**, and 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, 2016 June.
20. **Kosonen, H.**, and 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, 2016 June.
21. **Kim, A.**, **Lew, J.**, Swanson, T., Bybee, S., Eknoian, J., Kennard, S., and Quarfoth, G., “Applying Sustainability Practices to Lighting Retrofits in the UW Tower”, *UW’s Annual Environmental Stewardship Committee Meeting*, Seattle, WA, 2016 April.
22. **Kim, A.** “Understanding the Impact of Human Decision-making and Behavior on Sustainable Infrastructure Management”, *2<sup>nd</sup> NIAC Workshop on Urban Science & Engineering*, Seattle, WA, 2016 February.
23. **Kosonen, H.**, and Kim, A., “The Feasibility of Plug-load Monitoring and Energy-savings Interventions in Office Buildings”, *SustainableUW Festival (Husky Highlight: Energy and Innovation)*, Seattle, WA, 2015 October.
24. **Lew, J.**, and Kim, A. “Value-driven Property Investment Strategy for Indoor Lighting in the UW Tower”, *SustainableUW Festival*, Seattle, WA, 2015 October.
25. **Kim, A.**, Wang, S., and Reed, D., “Thermal Comfort Assessment Through Measurements in a Naturally Ventilated LEED Gold Building”, *5<sup>th</sup> International/11<sup>th</sup> Construction Specialty Conference*, Vancouver, British Columbia, 2015 June.

26. **Kosonen, H.**, and Kim, A., “The Feasibility of Plug-load Monitoring and Energy-saving Interventions in Residential and Office Buildings on the University of Washington Campus”, *5<sup>th</sup> International/11<sup>th</sup> Construction Specialty Conference*, Vancouver, British Columbia, 2015 June.
27. **Kim, A.**, Wang S., and Reed, D., “Analysis of the Indoor Environment Quality for a LEED Gold Commercial Building”, *Annual Conference on Environmental, Occupational, and Population Health*, Blaine, Washington, 2015 January.
28. **Kim, A., Sadatsafavi, H.**, Soucek, K., and Anderson, S., “An Integrated Approach to Implementing Enterprise Resource Planning Systems for a Large Transportation Agency”, *Transportation Research Board Annual Conference*, Washington DC, 2015 January.
29. Kim, A., **Wang, S.**, and Reed, D., “*Indoor Environment Quality Assessment*”, 2014 SustainableUW Festival, Seattle, Washington, 2014 October.

**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)

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**GRADUATE STUDENTS**

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**Chaired Doctoral Degrees**

<b>Student Name</b>	<b>Dissertation Topic/Title</b>	<b>Completed (Year)</b>	<b>Current Employer</b>
Novi Triadi Iman Bramono	Financing Strategies for Green Building Investments in Southeast Asia	Start Spring 2019	
Carolina Andrea Recart Zapata (Co-chair with Dr. Carrie Dossick)	Weatherization Plus Health	In progress	
Lysandra Amante Medal	Prioritizing Energy Conservation Measures for a Portfolio of Buildings Passed Qualifying Exam (2017 Summer)	In progress	
Heta Kosonen	Mental Models Approach to Wastewater Treatment Plant Project Delivery During Emergency Response	(2018)	UNICEF

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**RESEARCH ACTIVITIES**

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- Bridging STEM disciplines and Southeast Asian Studies
- Linear scheduling evaluation and best practices development - Synthesis study
- Well and Profitable during Pacific Northwest Fires: modeling I-O air pollution measured by fine and ultra-fine particulate matters
- Healthy Building (Fitwel) Certification for the City Hall Building
- Volatile Organic Compounds (VOC) and Particulate Matter (PM) Assessment in the City Hall Building
- Integrated solutions for the built environment: A global perspective
- Avoiding Secondary Disasters: Wastewater Treatment Design and (Re)construction during Large-Scale Disaster Response
- Value-driven Property Investing Strategy for the UW Campus
- Impact of changed workplace design on IEQ and employee performance and satisfaction in office buildings
- Feasibility of conducting a plug load management strategy in commercial office buildings

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## TEACHING

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

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## SERVICE

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### **Departmental service**

1. Environmental Engineering Faculty Search Committee, 2014-2015
2. Departmental Affairs Committee, 2014-2015
3. Departmental Faculty Affairs Committee, 2016-2018
4. Faculty advisor for American Public Works Association (APWA) student chapter 2018-present

### **College service**

1. Faculty mentor for UW STARS (State Academic RedShirt) students, 2016-2018

### **University service**

1. UW Green Building Committee: Contributing member for developing the next generation of UW's Green Building Design Guideline for the UW Capital Project Office, 2016-2018

### **Professional society and other service**

1. Editorial Board Member for ASCE Journal of Management in Engineering (JME), 2017-present
2. Human Centric Lighting Society (Invited) Member, 2016-present
3. Committee on Construction Management: AFH10 Appointment for 2014-2020, 2014, Transportation Research Board (TRB)
4. Editorial Board Member for CSID Journal of Infrastructure Development (JID), 2018-present

5. Health in Buildings Roundtable (HiBR) by National Institute of Health (NIH), (Invited) Member, 2018-present
6. US Green Building Committee (USGBC) LEED Pilot Credit Committee (Invited) Member, January 1, 2019 to December 31, 2019

**Community service**

1. Volunteer for designing and advising owners on installing a rainwater catchment system for Living Building Challenge modular unit at The Perkins School in Seattle Washington, 2014-2015
2. Consulting Miller Hull on healthy building design guidelines for the design of UW's Population Health Building, 2017
3. Consulting City of Bellevue on community engagement for tree canopy preservation through education on potential residential energy use reduction, 2017-2018

**International, national or governmental service**

1. NCHRP Project 20-05 Synthesis project review panel member, 2018-present
2. International Energy Agency (IEA) Energy in Buildings Communities Programme Annex 79: Occupant Behaviour-centric Building Design and Operation, October 2019 - September 2023