

# JESSICA KAMINSKY

## *Curriculum Vitae*

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Civil & Environmental Engineering  
121H More Hall  
352700  
Seattle, WA 98195

Phone: 206.221.3058  
Fax: 206.543.1543  
Email: jkaminsk@uw.edu  
ORCID: 0000-0002-1340-7913

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## EDUCATIONAL HISTORY

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University of Colorado, Boulder  
PhD Civil Engineering  
December 2013

Dissertation: Social Sustainability of Sanitation Infrastructure in Developing Communities

Rice University, Houston, TX  
BS Civil Engineering  
May 2004

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## EMPLOYMENT HISTORY

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University of Washington  
Seattle, WA, USA  
Assistant Professor

2014 – Present

University of Colorado, Boulder  
Boulder, CO, USA  
Research Assistant

2010 – 2013

CH2M HILL  
Sydney, NSW, Australia  
Staff Engineer III, International Practice Lead

2008 - 2010

CH2M HILL  
Chicago, IL, USA  
Staff Engineer II

2004 - 2008

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## AWARDS AND HONORS

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2017 *Outstanding Teacher Award*, Department of Civil & Environmental Engineering, University of Washington

American Society of Civil Engineers ExCEED Teaching Fellowship Workshop, June 2014

Best Poster, 2013, Engineering Project Organization Conference

Science to Achieve Results (STAR) Graduate Fellowship, 2011-2013, USEPA

Departmental Fellowship, 2010-2011, University of Colorado, Boulder

Robert P. Shubinski Award, Chi Epsilon/ASCE, Rice University, 2004

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## PUBLICATIONS

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### *Refereed archival journal publications*

#### *\*advised student*

1. Walters, J., and **Kaminsky, J.**, and Gottschamer, L. (2018). "A Systems Analysis of Factors Influencing Household Solar PV Adoption in Santiago, Chile." *Sustainability*. 10(4), 1257; doi: 10.3390/su10041257.
2. Walters, J., **Kaminsky, J.**, and Huepe, C. (2018). "Factors Influencing Household Solar Adoption in Santiago, Chile." *Journal of Construction Engineering & Management*. 144(6), DOI: 10.1061/(ASCE)CO.1943-7862.0001483.
3. **Kaminsky, J.** (2018). "National Culture Shapes Private Investment in Transportation Infrastructure Projects Around the Globe." *Journal of Construction Engineering and Management*. 144(2), DOI: 10.1061/(ASCE)CO.1943-7862.0001416.
4. **Kaminsky, J.** (2017). "Culturally Appropriate Organization of Water and Sewerage Projects Built Through Public Private Partnerships." *PLoS ONE*. 12(12), e0188905. <https://doi.org/10.1371/journal.pone.0188905>
5. **Kaminsky, J.**, Faust, K. (2017). "Transitioning from a Human Right to an Infrastructure Service: Water, Wastewater, & Displaced Persons in Germany." *Environmental Science & Technology*. DOI: 10.1021/acs.est.7b03594
6. \*Hacker, M., **Kaminsky, J.** (2017). "Cultural Preferences for the Methods and Motivation of Sanitation Infrastructure Development." *Journal of Water, Sanitation, and Hygiene for Development*. 7(3) 407-415; DOI: 10.2166/washdev.2017.188
7. **Kaminsky, J.** and Jordan, E. (2017). "Qualitative Comparative Analysis for WASH Research and Practice." *Journal of Water, Sanitation and Hygiene in Development*. 7(2) 196-208; DOI: 10.2166/washdev.2017.240.
8. \*Allison, L. and **Kaminsky, J.** (2017). "Safety Communication Networks: Females in Small Work Crews." *Journal of Construction Engineering and Management*, 143(8), 10.1061/(ASCE)CO.1943-7862.0001344.
9. Faust, K. and **Kaminsky, J.** (2017). "Building Water & Wastewater System Resilience To Disaster Migration: Utility Perspectives." *Journal of Construction Engineering and Management*. 143(8), 10.1061/(ASCE)CO.1943-7862.0001352.
10. **Kaminsky, J.** (2016). "Cultured Construction: Global Evidence of the Impact of National Values on Piped-to-Premises Water Infrastructure Development." 50(14) *Environmental Science & Technology*. DOI: 10.1021/acs.est.6b01107
11. **Kaminsky, J.** (2016). "Institutionalizing Infrastructure: Photo Elicitation of Cultural Cognitive Knowledge." *Construction Management and Economics*. 33(11-12) pp 942-956. DOI: 10.1080/01446193.2016.1167927
12. \*Marshall, L., **Kaminsky, J.** (2016). "When Behavior Change Fails: Evidence for Building WASH Strategies on Existing Motivations." *Journal of Water, Sanitation and Hygiene in Development*. 6 (2) pp 269-275. DOI: 10.2166/washdev.2016.148
13. Lucko, G., and **Kaminsky, J.** (2016). "Construction Engineering Conference and Workshop 2014: Setting an Industry-Academic Collaborative Research Agenda." *Journal of Construction Engineering and Management*, 142(4) 10.1061/(ASCE)CO.1943-7862.0001088, 04015096.
14. **Kaminsky, J.** (2016). "Cultured Construction: Global Evidence of the Impact of National Values on Renewable Electricity Infrastructure Choice." *Environmental Science & Technology*, 50(4), 2108–2116. DOI: 10.1021/acs.est.5b05756.

15. **Kaminsky, J.** (2015). "Cultured Construction: Global Evidence of the Impact of National Values on Sanitation Infrastructure Choice." *Environmental Science & Technology*, 49(12), 7134–7141. DOI: 10.1021/acs.est.5b01039.
16. **Kaminsky, J.** (2015). "The Fourth Pillar of Infrastructure Sustainability: Tailoring Civil Infrastructure to Social Context." *Construction Management and Economics*, 33(4), 299–309. DOI: 10.1080/01446193.2015.1050425. [Editor's Choice Article]
17. **Kaminsky, J.** and Javernick-Will, A. (2015). "Theorizing the Internal Social Sustainability of Sanitation Organizations." *Journal of Construction Engineering and Management*, 10.1061/(ASCE)CO.1943-7862.0000933 , 04014071.
18. **Kaminsky, J.**, and Javernick-Will, A. (2014). "The Internal Social Sustainability of Sanitation Infrastructure: A Set Theoretic Approach." *Environmental Science and Technology*, 48(17), 10028-10035. DOI: 10.1021/es501608phttp://pubs.acs.org/doi/abs/10.1021/es501608p.
19. **Kaminsky, J.**, and Javernick-Will, A. (2013). "Contested Factors for Sustainability: Construction and Management of Household On-Site Wastewater Treatment Systems." *Journal of Construction Engineering and Management*, 139(12), A4013004.

#### **Articles in press**

1. **Kaminsky, J.** and Faust, K. (in press). "Infrastructure Epistemologies: Water, Wastewater & Displaced Persons in Germany." *Construction Management and Economics*.  
<https://doi.org/10.1080/01446193.2018.1462499>.

#### **Other publications**

1. **Kaminsky, J.** and Zerjav, V. (2017). "Special Issue Editorial." 6(2), 62-63. *Engineering Project Organization Journal*. DOI: 10.1080/21573727.2016.1271493

#### **Conference proceedings**

##### **Fully refereed publications**

1. Hacker, M., **Kaminsky, J.**, Faust, K. "Implementation of Housing Regulations in Temporary Accommodations for Displaced Persons: A German Case Study". *Construction Research Congress*, New Orleans, LA, 2018.
2. Araya, F., Faust, K., **Kaminsky, J.** "Permanent vs. Temporary Infrastructure Solutions: Hosting communities' Perceptions toward Methods of Provision of Water Services to Displaced Persons in Germany." *Construction Research Congress*, New Orleans, LA, 2018.
3. Araya, F.; Faust, K.; **Kaminsky, J.** "Public Perceptions Toward the Impact of Displaced Persons in Germany on Water and Wastewater Systems". In *Leadership in Sustainable Infrastructure*; ASCE: Vancouver, BC Canada, 2017.
4. Faure, J.; Faust, K.; **Kaminsky, J.** "Rapid Population Increase and Urban Housing Systems: Legitimization of Centralized Emergency Accommodations for Displaced Persons"; Engineering Project Organization Society: South Lake Tahoe, CA, 2017.
5. Hacker, M.; **Kaminsky, J.**; Faust, K. "Legitimization of Water and Wastewater Utilities' Role in Urban Emergency Response for Displaced Persons"; Engineering Project Organization Society: South Lake Tahoe, CA, 2017.
6. Hacker, M.; **Kaminsky, J.**; Faust, K. "Constructing Emergency Accommodation for Displaced Persons in Urban Contexts: A Government Perspective". In *Leadership in Sustainable Infrastructure*; ASCE: Vancouver, BC Canada, 2017.
7. **Kaminsky, J.** and Walters, J. "Cultured Construction: Risk Attitudes & Global Infrastructure Technology Choice." *Construction Research Congress*, San Juan, Puerto Rico. June 2016.
2. Allison, L., **Kaminsky, J.** "Onsite Wastewater Treatment Management Systems." *Construction Research Congress*, San Juan, Puerto Rico. June 2016.
3. **Kaminsky, J.** "Relating Hofstede's Cultural Dimensions & National Sanitation Infrastructure Using Fuzzy Sets." *Engineering Project Organization Conference*, Cle Elum, WA., July 2016.

4. **Kaminsky, J.** “Cultural Impacts on the Global Diffusion of Renewable Electricity.” *Engineering Project Organization Conference*, Edinburgh, Scotland, July 2015.
5. Allison, L., and **Kaminsky, J.** “Culture in Construction.” International Construction Specialty Conference, Vancouver, BC, Canada. June 2015.
6. **Kaminsky, J.** “Photo Elicitation Methods in Engineering Research.” *Engineering Project Organization Conference*, Winter Park, CO, USA, July 2014.
7. **Kaminsky, J.** “Mapping WASH Sustainability Frameworks to Legitimacy Theory.” *Construction Research Congress*, Atlanta, GA, USA, May 2014.
8. **Kaminsky, J.**, and Javernick-Will, A. “Sanitation System Legitimacy in Bangladesh.” *Engineering Project Organization Conference*, Winter Park, CO, USA, July 2013.
9. **Kaminsky, J.**, and Javernick-Will, A. “Causes for Sustainable Maintenance and Operation of On-site Sanitation Systems.” CRC, Purdue, IN, USA, May 2012.
10. **Kaminsky, J.**, and Javernick-Will, A. “Expected Outcomes of a Construction Career: Gender Identity and Engineers Without Borders-USA.” CRC, Purdue, IN, USA, May 2012.
11. **Kaminsky, J.**, and Javernick-Will, A. “Sanitation Networks in Developing Communities.” EPOC, Estes Park, CO, USA, July 2011.
12. **Kaminsky, J.** “Saving Lives in Developing Communities Using Multi-Attribute Decision Analysis.” OzWater, Melbourne, VIC, Australia, 2009.
13. Zornes, G., and **Kaminsky, J.** “An Introduction to Engineers Without Borders and its Impact on Employee Recruitment, Retention, and Success.” OzWater, Melbourne, VIC, Australia, 2009.
14. Zornes, G., and **Kaminsky, J.** “With Corporate Support, Consulting Engineers Contribute to Sustainable Change and International Development.” WaTER Conference, University of Oklahoma, 2009.
15. Sreenivasan, A., and **Kaminsky, J.** “Systematic Approach of Determining State-Wide High Crash Locations Case Study: State of Illinois.” ITE, Chicago, IL, USA, 2007.

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## OTHER SCHOLARLY ACTIVITY

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### Invited lectures and seminars

*\*presenter*

1. **\*Kaminsky, J.** University of California, Davis, Institute of Transportation Studies Seminar. “National Culture and Private Investment in Transportation Infrastructure.” April 2017.
2. **\*Kaminsky, J.** University of Colorado, Boulder, WASH Symposium. Invited Panelist: “Aspirations, Shame, and Apathy: Navigating Social Dimensions of WASH.” March 2017.
3. **\*Faust, K., Kaminsky, J., Faure, J., and Hacker, M.** University of Illinois at Urbana-Champaign, Champagne, IL. “A Government Perspective to Germany’s Response to the Refugee Crisis: Challenges, Successes, and Priorities.” March 2017.
4. **\*Kaminsky, J.** Construction Research Congress, San Juan, Puerto Rico. Invited Panelist: “CRC 2016 Prospective and Junior / Underrepresented Minorities and Women Faculty Panel Session.” June 2016.
5. **\*Kaminsky, J.** UW Earth Day. “Sustainable Energy Infrastructure: Applying Research for Environmental Advocacy”. April 2016.
6. **\*Kaminsky, J.** University of Washington. Biological Anthropology Seminar Series. “Cultured Construction.” January 2016.
7. **\*Kaminsky, J.** University of Washington. UW Engineers Without Borders. “Cultured Construction and EWB.” January 2016.
8. **\*Kaminsky, J.** University of Colorado, Boulder. Engineering for Developing Communities lecture series. “The Social Sustainability of Infrastructure.” November 2015.

9. \***Kaminsky, J.** Michigan State University, School of Planning, Design and Construction & MSU Office for Inclusion and Intercultural Initiatives. "Diversity in Construction Management." March 2015.
10. \***Kaminsky, J.** Ontario Onsite Wastewater Association Annual Conference and Tradeshow, Niagara Falls, Ontario, Canada. "The Global Importance of Onsite Sanitation." March 2015.
11. \***Kaminsky, J.** Washington Traffic Safety Commission Workshop, UW STAR Lab. "Work Zone Safety and Social Network Analysis." March 2015.
12. \***Kaminsky, J.** Engineering Project Organization Conference PhD Seminar, Winter Park, CO, USA. "The First Year on the Tenure Track." July 2014.
13. \***Kaminsky, J.** Colorado School of Mines Humanitarian Engineering Lecture Series, Golden, CO, USA. "Careers in Humanitarian Engineering." December 2013.

### Presentations given at conferences

#### \*presenter

1. \*Hacker, M., **Kaminsky, J.**, Faust, K. "Implementation of Housing Regulations in Temporary Accommodations for Displaced Persons: A German Case Study". *Construction Research Congress*, New Orleans, LA, 2018.
2. \*Araya, F., Faust, K., **Kaminsky, J.** "Permanent vs. Temporary Infrastructure Solutions: Hosting communities' Perceptions toward Methods of Provision of Water Services to Displaced Persons in Germany." *Construction Research Congress*, New Orleans, LA, 2018.
3. \*Faust, K., **Kaminsky, J.**, Faure, J., and Hacker, M. "Centralized Accommodations for Displaced Persons". *Healthy Buildings 2017 Europe*, Lublin, Poland, July 2-5, 2017
4. \*Araya, F.; Faust, K.; **Kaminsky, J.** "Public Perceptions Toward the Impact of Displaced Persons in Germany on Water and Wastewater Systems". In *Leadership in Sustainable Infrastructure*; ASCE: Vancouver, BC Canada, 2017.
5. Faure, J.; \*Faust, K.; **Kaminsky, J.** "Rapid Population Increase and Urban Housing Systems: Legitimization of Centralized Emergency Accommodations for Displaced Persons"; Engineering Project Organization Society: South Lake Tahoe, CA, 2017.
6. \*Hacker, M.; **Kaminsky, J.**; Faust, K. "Legitimization of Water and Wastewater Utilities' Role in Urban Emergency Response for Displaced Persons"; Engineering Project Organization Society: South Lake Tahoe, CA, 2017.
7. \*Hacker, M.; **Kaminsky, J.**; Faust, K. "Constructing Emergency Accommodation for Displaced Persons in Urban Contexts: A Government Perspective". In *Leadership in Sustainable Infrastructure*; ASCE: Vancouver, BC Canada, 2017.
8. \***Kaminsky, J.**, Faust, K., Hacker, M., Faure, J. "Disaster Migration and Resiliency of the Built Environment". *2017 New Frontiers in Construction Conference*, Seattle, WA, March 16, 2017
9. \*Allison, L. and **Kaminsky, J.** "Safety Communication Networks: Women in Small Work Crews". *2017 New Frontiers in Construction Conference*, Seattle, WA, March 16, 2017. [poster]
10. \*Faust, K., **Kaminsky, J.**, Faure, J., and Hacker, M. *ASCE Continuing Education Conference*, Austin, TX. "Disaster Migration and the Built Environment: Germany's Response to the Refugee Crisis." February 2017.
11. \***Kaminsky, J.** and Walters, J. "Cultured Construction: Risk Attitudes & Global Infrastructure Technology Choice." *Construction Research Congress*, San Juan, Puerto Rico. June 2016.
12. \*Allison, L., **Kaminsky, J.** "Onsite Wastewater Treatment Management Systems." *Construction Research Congress*, San Juan, Puerto Rico. June 2016.
13. \***Kaminsky, J.** "Relating Hofstede's Cultural Dimensions & National Sanitation Infrastructure Using Fuzzy Sets." *Engineering Project Organization Conference*, Cle Elum, WA., July 2016.
14. \***Kaminsky, J.** "Cultural Impacts on the Global Diffusion of Renewable Electricity." *Engineering Project Organization Conference*, Edinburgh, Scotland, July 2015.
15. \*Allison, L., and **Kaminsky, J.** "Culture in Construction." International Construction Specialty Conference, Vancouver, BC, Canada. June 2015.

16. **\*Kaminsky, J.** “Photo Elicitation Methods in Engineering Research.” *Engineering Project Organization Conference*, Winter Park, CO, USA, July 2014.
17. **\*Kaminsky, J.** “Mapping WASH Sustainability Frameworks to Legitimacy Theory.” *Construction Research Congress*, Atlanta, GA, USA, May 2014.
18. **\*Kaminsky, J.**, and Javernick-Will, A. “Sanitation System Legitimacy in Bangladesh.” *Engineering Project Organization Conference*, Winter Park, CO, USA, July 2013.
19. **\*Kaminsky, J.**, and Javernick-Will, A. “Causes for Sustainable Maintenance and Operation of On-site Sanitation Systems.” *Construction Research Congress*, Purdue, IN, USA, May 2012.
20. **\*Kaminsky, J.**, and Javernick-Will, A. “Expected Outcomes of a Construction Career: Gender Identity and Engineers Without Borders-USA.” *Construction Research Congress*, Purdue, IN, USA, May 2012.
21. **\*Kaminsky, J.**, and Javernick-Will, A. “Sanitation Networks in Developing Communities.” *Engineering Project Organization Conference*, Estes Park, CO, USA, July 2011.
22. **\*Kaminsky, J.** “Saving Lives in Developing Communities Using Multi-Attribute Decision Analysis.” *OzWater*, Melbourne, VIC, Australia, 2009.

**Professional society memberships**

Member, ASCE (#9820564)	2014 - present
Engineers Without Borders	2004 - present
Member, ACS (# 30793156)	2016 - present

**Other**

- Invited Reviewer, Environmental Science & Technology
- Invited Reviewer, Journal of Construction Engineering and Management
- Invited Reviewer, Engineering Project Organization Journal
- Invited Reviewer, Automation in Construction
- Invited Reviewer, Journal of Professional Practice in Engineering Education
- Invited Reviewer, Construction Management and Economics
- Invited Reviewer, Construction Research Congress
- Invited Reviewer, International Construction Specialty Conference
- Invited Reviewer, Engineering Project Organization Conference

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**UNDERGRADUATE & GRADUATE STUDENTS**

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**Chaired Doctoral Degrees**

Student Name	Level of Supervision	Thesis/Paper Title	Completed
Leigh Allison	advisor	in progress	
Miriam Hacker	advisor	in progress	
Elyse O’C. Lewis	co-advisor	in progress	

**Chaired Masters Degrees**

Student Name	Level of Supervision	Thesis/Paper Title	Completed
Leigh Allison	advisor	n/a	2015
Michiya Kitayama	advisor	n/a	2018
Zhi Chen	advisor	n/a	2018
Dhrupad Rupwate	advisor	n/a	2018

**Other significant student supervision**

<b>Student Name</b>	<b>Level of Supervision</b>	<b>Thesis/Paper Title</b>	<b>Completed</b>
Mania Orand, UW Human Centered Design	External PhD committee member, GSA	Design for Solo Travellers	2017
Laura Kohler, CU Boulder	External PhD committee member	Statistical Modeling of On-site Wastewater Treatment System Life Cycle Performance and Risk	2016
Hoda Homayouni, UW Construction Management	External PhD committee member, GSA	Achieving Higher Energy Efficiency in High-Performance Buildings Using Elements of Project Team Integration: A Set Theoretic Approach	2015
Lia Marshall, UW School of Environmental and Forest Sciences	MS committee member	An Analysis of Stakeholder Perceptions and Insights on Delivering Socially Sustainable Rural Water Services in Low-Income Countries	2015

**Undergraduate research supervision**

<b>Student Name</b>	<b>Level of Supervision</b>	<b>Topic</b>	<b>Completed</b>
Samantha Modabber	undergraduate research	Disaster Migration and Utilities	in progress
Katarina Kubinieć*	undergraduate research	Disaster Migration and Utilities	in progress
Chin Tang	undergraduate research	Seattle Solar & Risk	2016
Lauren Phillips	undergraduate research	Seattle Solar & Risk	2017
Fausto Figueroa	undergraduate research	Chilean Solar	2017
Alexis Den Herder	undergraduate research	Jobsite Communication & Safety	2015
Henry Moen	undergraduate research	Global Sanitation Coverage Statistics	2014

\*Mary Gates Undergraduate Research Scholarship, 2017

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DOCUMENTATION OF TEACHING EFFECTIVENESS

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**Courses Taught & Student Evaluations**

Course	Title	Quarter	Credit Hrs	Enrollment	Item 1*	Item 2*	Item 3*	Item 4*	Combined Median*
CEE 420	Engineering with Developing Communities	Spring 2017	3	44	4.4	4.5	4.7	4.6	4.6
CEE 498X	The Activist Engineer	Winter 2017	1	18	4.8	4.6	4.9	4.9	4.8
CEE 307	Construction Engineering	Winter 2017	5	74	4.2	4.0	4.6	4.5	4.4
CEE 420	Engineering with Developing Communities	Spring 2016	3	40	4.5	4.2	4.6	4.3	4.5
CEE 307	Construction Engineering	Fall 2015	5	58	3.7	3.6	4.0	3.8	3.7
CEE 420	Engineering with Developing Communities	Spring 2015	3	24	3.6	3.5	4.4	4.3	3.9
CEE 599 C	Special Topics: Questionnaire Design	Fall 2014	3	7	3.8	4.3	4.6	4.6	4.4
CEE 498B	Engineering with Developing Communities	Spring 2014	3	12	4.9	4.9	4.9	5.0	4.9

*\*Adjusted medians, per standard UW course evaluations*

**Supervision of independent study (design projects and research).**

**Independent Study**

Course	Title or Student Name	Quarter	# of Students (Total Credit Hrs)
CEE 599	Yihong Zou, Earthwork Educational Game	Winter 2017	1 (2)
CEE 499	Katarina Kubiniec, Disaster Migration and Utilities	Fall 2016	1 (3)
CEE 499	Riley Link, Rainwater at UW	Spring 2016	1 (1)
CEE 499	Yihong Zou, Sustainable Development in China	Winter 2016	1 (1)
CEE 499	Ganga Subdi and Yihong Zou, Global Water Treatment	Summer 2015	2 (1)
CEE 599	Miriam Hacker, Global Water Coverage Statistics	Spring 2014	1 (2)



**List of other teaching contributions**

CEE 420 Honors Project, McKenzie Fockler, Spring 2018  
CEE 307 Honors Project, Brandon McNerney, Fall 2016  
Curriculum development for *Engineering with Developing Communities*  
Curriculum development for *The Activist Engineer*

**Other supporting documents**

NETI-1 Teaching Workshop, June 2015  
American Society of Civil Engineers ExCEED Teaching Fellowship Workshop, June 2014

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SERVICE

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**Departmental service**

Faculty Affairs Committee	2018 - present
Search Committee	2016 - 2017
Graduate Education Committee	2014 - present
Search Committee	2014 - 2015

**Professional society and other service**

Special Issue Co-Editor, Engineering Project Organization Journal, 2017  
Technical Co-Chair, Engineering Project Organization Conference 2016  
Environmentally Sustainable Design and Construction Track Chair, Construction Research Congress, 2016  
ARCOM Conference Scientific Committee, 2016, 2017, 2018.  
Technical Committee Member, Engineering Project Organization Conference, 2015, 2016.  
Sustainability Track Chair, International Construction Specialty Conference, 2015.  
Technical Committee Member, International Construction Specialty Conference, 2015, 2016.