

GIOVANNI C. MIGLIACCIO

Chair and Associate Professor, Department of Construction Management
Executive Director, Center for Education and Research in Construction (CERC)
Howard S. Wright Endowed Professorship

University of Washington, Seattle

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A. CONTACT INFORMATION

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Center for Construction Education and Research
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Building 5, 7543 63rd Ave NE

Seattle, WA 98115

B. EDUCATION, PROFESSIONAL LICENSES AND CERTIFICATIONS

Doctor of Philosophy, University of Texas at Austin, USA, 2007

Major: Civil Engineering; Area of Emphasis: Construction Engineering and Project Management

Master of Science, University of Texas at Austin, USA, 2006

Major: Civil Engineering; Area of Emphasis: Construction Engineering and Project Management

Italian Professional Engineer License, Politecnico di Bari, Italy, 2000

Albo dell'Ordine degli Ingegneri (Professional Engineering Board), Taranto, Italy, 2000-present

Laurea di Dottore (Master's level Professional Degree), Politecnico di Bari, Italy, 2000

Major: Architectural Engineering; Areas of Emphasis: Building Systems, Building Design

C. LEADERSHIP, HONORS AND AWARDS

Personal Leadership Assignments, Honors and Awards

- **Executive Directorship, Center for Education and Research in Construction (CERC)**, Spring 2018-present, UW.
- **Associate Directorship, Center for Education and Research in Construction**, Fall 2017-Winter 2018, UW.
- **Affiliate Fellowship, Runstad Department of Real Estate (formerly Runstad Center for Real Estate Studies)**, 2015-present, UW.
- **P.D. Koon Professor in Construction Management**, Endowed Professorship in CM, 2014-present, UW.
- **Construction Industry Institute (CII), New Scholar Program**, Grant to attend 2014 CII Annual Meeting, CII, Indianapolis, IN.
- **ASC Conference 2014 – Best Paper Award** (jointly with *Carrie Dossick and Elizabeth Golden*), 2014 Associated Schools of Construction Annual Conference, ASC, Washington, DC.
- **Construction Industry Institute Poster Competition** (jointly with *Teizer, J., Cheng, T., and Gatti, U.C.*), 2012 CII Annual Meeting, First Place, CII, Baltimore, MD.
- **Transportation Research Board 2012 Minority Fellowship Grant** (as advisor of *Martinez, R. M.*).
- Received the “**Richard and Shirley Tucker Endowed Scholarship**” three times in Construction Engineering and Project Management for achievements in research, and coursework, (2004-2007)

National/International Competitive Awards:

In 2013, the Italian Ministry of Education, University and Research issued an international call titled "[*Messaggeri della Conoscenza*](#)" (i.e. Knowledge Messengers) requesting oversea faculty members to submit proposals to introduce new courses in the curriculum of Italian universities located in certain economically disadvantaged regions. This call received 350 proposals with 113 proposals being selected for implementation. I submitted four proposals of courses in construction engineering and management. All four proposals were selected for funding and implementation, ranking between 25th and 28th place. I implemented my proposals by developing and delivering the courses at the University of Naples, Federico II in Italy in 2014. As part of these projects, the top two students in each of the four courses were funded for a research internship at the University of Washington, which occurred in the 2014-15 academic year.

1. Awardee, *Design and Deliver Course on Project Management for Italian Engineering Students*, International Competition Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department, Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Università e della Ricerca*), 2014, Total Budget = 42,240 Euros.
2. Awardee, *Design and Deliver Course on Construction Contracting for Italian Engineering Students*, Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department, Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Università e della Ricerca*), 2014, Total Budget = 42,240 Euros.
3. Awardee, *Design and Deliver Course on Construction Equipment Management for Italian Engineering Students*, Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department, Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Università e della Ricerca*), 2014, Total Budget = 42,240 Euros.
4. Awardee, *Design and Deliver Course on Advanced Construction Equipment Management for Italian Engineering Students*, Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department, Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Università e della Ricerca*), 2014, Total Budget = 42,240 Euros.

Awards for Students Trainees/Advisees

- **Wonil Lee**, Excellence in Academic Research, Department of Construction Management, University of Washington, (June 10, 2016); The Graduate School Fund for Excellence and Innovation (GSFEI) Graduate Student Travel Grant, University of Washington (Summer 2016); Dr. John Schaufelberger Scholarship Award, Department of Construction Management, University of Washington (Autumn 2015); Department Fellowship, Department of Construction Management, University of Washington (Spring 2017, Spring 2018); Research Assistantship, University of Washington as tuition-waiver and monthly stipend (Autumn 2013-Spring 2016); Doctoral Fellowship, University of Washington as tuition-waiver and monthly stipend (Autumn 2012– Spring 2013)
- **Luigi Capuano, Dalila de Francesco, Luca Di Costanzo, Lucia Falciano, Luigia Iannotta, Gaia Maria Pisani, Ciro Varriale, Nunzio Viscione**, Travel Fellowship, Autumn 2014, [*Messaggeri della Conoscenza*](#)
- **Umberto Gatti**, 2012 CII Annual Meeting, Best Poster Award, Baltimore, MD; 2011 Canadian Graduate Student Colloquium, First Place, CSCE, Ottawa, CA.
- **Rebecca M. Martinez**, Transportation Research Board Minority Fellowship, 2010; Construction Financial Management Association (CFMA) Scholarship, 2009; Sigma Xi, Superior Undergraduate Award for research accomplishments during undergraduate study, 2009; New Mexico Engineering Foundation (NMEF) Scholarship, 2008; Engineering Student of the Year, New Mexico Society of Professional Engineers, 2008; Annual Student Project/Paper Competition (1st place), ITE UNM Student Chapter, 2008
- **Francisco Forns-Samsó, Adam A. Martinez, Su Zhang** CFMA Scholarship

D. ACADEMIC EXPERIENCE

Academic Appointments

01/20 – 3/20	Interim Chair, CM Department, University of Washington
09/19 – 12/19	Associate Chair, CM Department, University of Washington
03/18 – current	Executive Director, CERC, University of Washington
09/14 – current	Associate Professor (tenured), University of Washington
09/17 – 3/18	Associate Director, CERC, University of Washington
08/10–09/14	Assistant Professor (tenure-track), University of Washington
08/07–07/10	Assistant Professor (tenure-track), University of New Mexico
09/06–06/07	Graduate Research Assistant (GRA), Sloan Center for Construction Industry Studies
09/03–08/06	GRA, Center for Transportation Research, the University of Texas at Austin
12/00–03/01	Research Intern, Department of Architecture and City Planning, Politecnico di Bari

Concurrent Academic Appointments

04/14–08/14	Visiting Professor, University of Naples, Federico II, Italy
08/10–12/11	Visiting Assistant Professor, University of New Mexico

Professional Experience

- Consultant, Technical assistance assignments with the GSURR global programs to help develop a capital investment plan for five cities in Turkey, The World Bank, December 2019 (planned).
- Consultant, Technical assistance assignment with the GSURR global programs to help develop a capital investment plan for Kampala, Gulu, Mbale, Fort Portal, Lira and Entebbe, Uganda, The World Bank, September 2017-March 2018.
- Consultant, Technical assistance assignment with the Social Urban Rural and Resilience Global Practice (GSURR) global programs to help develop a capital investment plan for Kampala, Uganda, The World Bank, August 2015-March 2016.
- Project & Field Engineering Consultant, PCL Construction, Seattle, WA, October 2016-May 2017.
- Project & Field Engineering Consultant, PCL Construction, Seattle, WA, July 2015-September 2015.
- Civil Works and Telecom Specialist, IPSE 2000, Milan, Italy, October 2001-June 2002.
- Civil Works Consultant, Nokia Networks, Milan, Italy, March 2001-October 2001.
- Professional Engineering Consultant, Misceo Engineering, Bari, Italy, December 2000-March 2001.
- Civil Works Consultant, Nortel Networks Agent, Noci, Italy, August 2000-December 2000.

E. PUBLICATIONS

Publication Summary Statistics

Number of publications published/accepted/recommended for publication as of 3/30/2020: **96**

Number of Books and Monographs: **Five**

Number of Book Chapters: **Five**

Number of Editorials/Guest Editorials: **One**

Number of Peer-Reviewed Journal Papers: **31**

Number of Peer-Reviewed Conference Papers: **52**

Number of Professional Magazine Articles: **Two**

Number of Research Reports and Deliverables: **23**

Books (Published, Accepted or Recommended for Publication)

1. Muench, S. T., Migliaccio, G.C., Mukherjee, A., Anderson, J. Kaminsky, J. Ashtiani, M. Z., (2019). *Sustainable Highway Construction Practices Guidebook*, NCHRP Report No. 916. Washington, DC: TRB.
2. Schaufelberger, J. and Migliaccio, G.C. (2019). *Construction Equipment Management, 2nd Edition*, Routledge, March 2019.
3. Migliaccio, G. C. and Holm, L.A. (2018). *Introduction to Construction Project Engineering*, Routledge, April 2018.
4. Minchin, E., Migliaccio, G.C., Ptschelinzew, L., Gatti¹, U., Atkins, K., Warne, T., Hostetler, G., and Asiamah., S. (2014). *Design Management Guide for Design-Build and Construction Manager/General Contractor Projects*, NCHRP Report 787. Washington, DC: TRB.
5. Migliaccio, G. C., Knoebel, G., Martinez², R.M., Albert, D., and Hurd, J., (2011). *A Guidebook for Successful, Communication, Cooperation, and Coordination Strategies between Transportation Agencies and Tribal Communities*, NCHRP Report 690. Washington, DC: TRB. ISBN 978-0-309-15563-2.

Books (In Preparation)

1. Migliaccio, G.C. & Shrestha P. P. (co-editors), (2021 expected). *Building a Body of Knowledge in Construction Project Delivery, Procurement and Contracting*. Singapore: World Scientific Publishing (WSP).

Book Chapters (Published, Accepted or Recommended for Publication)

1. Migliaccio, G. C., Lin, K.Y., and Dossick, C. "Learning to Create a Better Built Environment." Chapter in Childs M. and Soetanto, R. (Eds.) (2017) *Online Learning for STEM Subjects: International Examples of Technologies and Pedagogies in Use*, Taylor and Francis.
2. Migliaccio, G. C. and Minchin, R.E. "Design Management of Infrastructure Projects." Chapter in Jefferies M.C. and Rowlinson, S. (Eds.) (2015) *New Forms of Procurement: Public Private Partnerships and Relational Contracting in the 21st Century*, Taylor and Francis.
3. Ahmed, A.A. and Migliaccio, G. C. "Status of PPP implementation in the U.S." Chapter in A. Akintoye, M. Beck, and M. Kumaraswamy (Eds.) (2015), *Public Private Partnerships: A Global Review*. Oxfordshire, UK: Taylor & Francis.

¹ Research associate (early career faculty researcher)

² Master research student

- Gibson, G. E. J., O'Connor, J. T., Migliaccio, G. C., and Walewski, J., (2007). "Key Implementation Issues and Lessons Learned with Design-Build Projects." Chapter 1 in K. R. Molenaar & G. Yakowenko (Eds.), *Alternative Project Delivery, Procurement, and Contracting Methods for Highways* (pp. 1-19). Reston, VA: ASCE (peer-reviewed).
- Migliaccio, G.C., (1996). "Il Promontorio di San Pietro: Progetto della Nuova Porta a Mare e del Recinto del Convento." Chapter in Polito, S. et al., *Bari, la Linea del Mare: Progetti (Bari Waterfront Projects)*; pp.7-13). Bari, Italy: Safra Publisher.

Book Chapters (In Preparation)

- Migliaccio, G. C., and Shrestha, P.P. "Project Delivery Methods." Chapter in Migliaccio, G.C. and Shrestha, P.P. (Eds.) (2021, expected) *Building a Body of Knowledge in Construction Project Delivery, Procurement and Contracting*, WSP.
- Shrestha, P.P. and Migliaccio, G. C., "Procurement Approaches for Design, Construction and Materials." Chapter in Migliaccio, G.C. and Shrestha, P.P. (Eds.) (2021, expected) *Building a Body of Knowledge in Construction Project Delivery, Procurement and Contracting*, WSP.
- Migliaccio, G. C., Shrestha, P.P. and Gibson G.E., "Traditional Contracting Approaches." Chapter in Migliaccio, G.C. and Shrestha, P.P. (Eds.) (2021, expected) *Building a Body of Knowledge in Construction Project Delivery, Procurement and Contracting*, WSP.
- Migliaccio, G. C., and Shrestha, P.P., "Proposed framework and building blocks for a Body of Knowledge in Construction Project Delivery, Procurement and Contracting." Chapter in Migliaccio, G.C. and Shrestha, P.P. (Eds.) (2021, expected) *Building a Body of Knowledge in Construction Project Delivery, Procurement and Contracting*, WSP.

Guest Editorial

- Jayasena, H. S., Siriwardane, M, and Migliaccio, G.C. (2019). "Public-private partnerships: potentials, prospects, pitfalls and precautions." *Built Environment Project and Asset Management*, special issue. Vol. 9, Issue: 2, pp. 170-171.

Peer-Reviewed Articles (Published, Accepted or Recommended for Publication)

- Abdirad, H., Dossick, C., Johnson, B., and Migliaccio, G.C. (2020). "Disruptive Information Exchange Requirements in Construction Projects: Perception and Response Patterns." *Building Research & Information*, DOI: [10.1080/09613218.2020.1750939](https://doi.org/10.1080/09613218.2020.1750939).
- Shang¹, L., and Migliaccio, G.C., (2020). "Demystifying Progressive Design Build: Implementation Issues and Lessons Learned Through Case Study Analysis." *Organization Management & Technology in Construction*, Vol.12, Issue 1, pp. 2095–2108.
- Lee², W., Lin, K.Y., Seto, E., and Migliaccio, G.C. (2020). "A Task-Level Perspective on the Relationships between Job Demands-Resources, Burnout, and Construction Worker Performance." *Safety Science*, Vol.123, pp.104577.
- Lee³, W., and Migliaccio, G.C. (2018). "Temporal Effect of Construction Workforce Physical Strain on Diminishing Marginal Productivity in Task Level." *ASCE Journal of Construction Engineering and Management*, Vol. 144, Issue 9.
- Lee¹, W., Lin, K.Y., Migliaccio, G.C., and Azari⁴, R. (2018). "Training of Low-Literacy and Low-English-Proficiency Hispanic Workers on Construction Fall Fatality." *ASCE Journal of Management in Engineering*, Vol. 34, Issue 2.

¹ Doctoral research student

² Doctoral research student (now early career researcher in government agency)

³ Doctoral research student (now early career researcher in government agency)

⁴ Former doctoral research student (now assistant professor at Illinois Institute of Technology)

6. Lee¹, W., Lin, K.Y., Seto, E., and Migliaccio, G.C. (2017). “Wearable sensors for monitoring on-duty and off-duty worker physiological status and activities in construction.” *Automation in Construction*, Vol. 83, pp. 341-353.
7. Song¹, J., Migliaccio, G.C., Wang, G., Lu, H. (2017). “Exploring the Influence of System Quality, Information Quality, and External Service on BIM User Satisfaction.” *ASCE Journal of Management in Engineering*, Vol. 33, Issue 6.
8. Lee¹, W., Lin, K.Y., Migliaccio, G.C., and Seto, E. (2017). “An evaluation of wearable sensors and their placements for analyzing construction worker's trunk posture in laboratory conditions.” *Applied Ergonomics*, Vol. 66, pp. 424-436.
9. Zhang², S., Bogus, S.M., Lippitt, C.D. and Migliaccio, G.C. (2017). “Empirical Assessment of Using Nighttime Light Satellite Imagery for Adjusting Construction Cost Estimates by Project Location.” *ASCE Journal of Construction Engineering and Management*, Vol. 143, Issue 1.
10. Lee¹, W and Migliaccio, G.C. (2016). “Physiological cost of concrete construction activities.” *Construction Innovation: Information, Process, Management*, special issue on innovations in construction health, safety and environmental research, Vol. 16, Issue 3.
11. Ottesen³, J., Migliaccio, G.C. and Wulfsberg, H.J. (2016). “Contractual Battles for Higher Ground – Case Examples.” *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, Vol. 8, Issue 1.
12. D'Incognito³, M., Costantino, N., and Migliaccio, G.C. (2015). “Actors and barriers to the adoption of LCC and LCA techniques in the built environment,” *Built Environment Project and Asset Management*, special issue on leadership, culture and sustainable built environment, Vol. 5, Issue: 2, pp. 202 – 216.
13. Gatti^{5,4}, U.C., Migliaccio, G.C., and Schneider, S. (2014). “Physiological Condition Monitoring of Construction Workers,” *Automation in Construction*, Vol.4 (August 2014) pp. 227-233.
14. Gatti^{5,6}, U. C., El-Anwar, O., Migliaccio, G.C., and Lin, K.Y. (2014). “Using Discrete-Event Simulation to Quantify the Impacts of DOT's Building Systems Failures on Transportation System Users,” *Transportation Research Record: Journal of the Transportation Research Board*, Issue 2440, pp. 85-93.
15. Zhang⁴, S., Migliaccio G.C., Zandbergen P. and Guindani, M. (2014). “Empirical Assessment of Geographically Based Surface Interpolation Methods for Adjusting Construction Cost Estimates by Project Location,” *ASCE Journal of Construction Engineering and Management*, Vol. 140, Issue 6.
16. Gatti^{5,6}, U.C., Migliaccio, G.C., Bogus, S.M., and Schneider, S. (2014). “An Exploratory Study of the Relationship between Construction Workforce Physical Strain and Task Level Productivity.” *Construction Management and Economics*, special issue on productivity improvement in the construction process, Vol. 32, Issue 6, pp. 548-564.
17. Gatti^{1,2}, U.C., Migliaccio, G.C., and Laird, L. (2014). “Design Management in Design-Build Mega-Projects: The SR 99 Bored Tunnel Case Study.” *ASCE Practice Periodical on Structural Design and Construction*, special issue on construction engineering conference, Vol. 19, 148-158, published online in June 2013, printed copy in 2014.
18. Migliaccio G.C., Zandbergen P., and Martinez⁷, A.A., (2014). “Empirical Comparison of Methods for Estimating Location Cost Adjustment Factors.” *ASCE Journal of Management in Engineering*, published online in June 2013, printed copy 2014.
19. Migliaccio, G.C., Bogus, S., and Cordova-Alvidrez³, A. A., (2014). “Continuous Quality Improvement Techniques for Data Collection in Asset Management Systems – Tecnicas de Mejoria Continua de la

¹ Visiting doctoral research student

² Former master research student (now early career researcher at University of New Mexico)

³ Doctoral research student

⁴ Research associate (early career faculty researcher)

⁵ Doctoral research student

⁶ Research associate (early career faculty researcher)

⁷ Master research student

- Calidad de la Recoleccion de Datos en Sistemas de Gerencia de Capital de Infraestructura.” *ASCE Journal of Construction Engineering and Management*, special bilingual issue on engineering of the Americas, published online in June 2013, printed copy in 2014.
20. Bogus, S., Migliaccio, G.C., and Yin, R.¹, (2013). “Study of the Relationship between Procurement Duration and Project Performance in Design-Build Projects: Comparison between Water/Wastewater and Transportation Sectors.” *ASCE Journal of Management in Engineering*, Vol. 29, Issue 4, pp. 382-391.
 21. Migliaccio, G.C., Guindani, M., D’Incognito², M. and Zhang, L. (2013). “Empirical Assessment of Spatial Prediction Methods for Location Cost-Adjustment Factors.” *ASCE Journal of Construction Engineering and Management*, Vol. 139, Issue 7, pp. 858-869.
 22. Gatti^{1,2}, U. , Migliaccio, G., Bogus, S., Priyadarshini¹, S., and Scharrer³, A. (2013). “Using Workforce’s Physiological Strain Monitoring to Enhance Social Sustainability of Construction.” *ASCE Journal in Architectural Engineering*. Vol. 19, special issue on emerging trends of sustainable engineering, design, and construction, pp. 179–185.
 23. Cheng, T., Teizer, J., Migliaccio, G.C., and Gatti^{1,2}, U.C., (2013). “Automated Task-level Activity Analysis through Fusion of Real Time Location Sensors and Worker’s Thoracic Posture Data.” *Automation in Construction*, Elsevier, Vol. 29, pp. 24-39.
 24. Cheng, T., Migliaccio, G.C., Teizer, J., and Gatti^{1,2}, U.C., (2013). “Data Fusion of Real-Time Location Sensing and Physiological Status Monitoring for Ergonomics Analysis of Construction Workers.” *ASCE Journal of Computing in Civil Engineering*, Vol. 27, Issue 3, pp. 320–335.
 25. Migliaccio, G.C., Bogus, S., and Chen³, A., (2010). “Effect of Duration of Design-Build Procurement on Performance of Transportation Projects.” *Transportation Research Record: Journal of the Transportation Research Board*, December 2010.
 26. Bogus, S., Migliaccio, G.C., and Cordova, A.³, (2010). “Assessment of Data Quality for Evaluations Manual Pavement Distress.” *Transportation Research Record: Journal of the Transportation Research Board*, December 2010.
 27. Martinez³, R.M., Migliaccio, G.C., Dexter, A., and Holley, T., (2009). “Review of Strategies for Enabling Collaboration between Transportation Agencies and Native American Tribes.” *Transportation Research Record: Journal of the Transportation Research Board*, Issue 2119/2009, pp. 113-119.
 28. Hale, D.R., Gibson, G.E., Migliaccio G.C., and Shrestha, P. P., (2009). “Empirical Comparison of Design/Build and Design/Bid/Build Project Delivery Methods.” *ASCE Journal of Construction Engineering and Management*, Vol. 135, Issue 7, pp. 579-587.
 29. Migliaccio, G.C., Gibson, G.E., and O’Connor J.T., (2009). “Procurement of Design-Build Services: Two-Phase Selection for Highway Projects.” *ASCE Journal of Management in Engineering*, Vol. 25, Issue 1, pp. 29-39.
 30. Migliaccio, G.C., Gibson, G.E., and O’Connor J.T., (2008). “Changing Project Delivery Strategy: An Implementation Framework.” *SAGE Journal of Public Works: Management and Policy*, Vol.12, Issue 3, pp. 483-502.
 31. Shrestha, P. P., Migliaccio, G.C., O’Connor, J.T., and Gibson, G.E., (2007). “Benchmarking of Large Design-Build Highway Projects: One-To-One Comparison and Comparison with Design-Bid-Build Projects.” *Transportation Research Record: Journal of the Transportation Research Board*, Issue 1994/2007, pp. 17-25.

¹ Master research student (now senior lecturer at University of Brighton)

² Visiting doctoral research student

³ Undergraduate research student

Articles in preparation/under review by Peer-Reviewed Scholarly Journals

1. Fernandez-Angulo¹, L.R., Migliaccio, G.C., and Gebken, R. (TBD). “Emergent Subcontracting Models in the U.S. Construction Industry.” *Built Environment Project and Asset Management*, in preparation.

Articles in Magazines

1. Migliaccio, G.C. and Stoddard, A. “Transportation Research in Indian Country: Lessons Learned from Recent Projects,” *TR News*, Issue 294, September 2014.
2. Minchin, R. E. and Migliaccio, G.C. “Design Management for Transportation Construction Projects Design-Build and Construction Manager-General Contractor Methods,” *TR News*, Issue 302, March-April 2016.

Articles in Peer-Reviewed Conference Proceedings

1. Fardhosseini, M.S., Habibnezhad, M., Jebelli, H. Migliaccio, G.C., Lee, H.W. and Pucket, J. (2020). “Recognition of Construction Workers’ Physical Fatigue Based on Three-axis Accelerometer Embedded in a Smartphone,” *Proceedings of the 2020 ASCE Construction Research Congress*. Tempe, AZ: ASCE, March 8-10, 2020.
2. Shang², L., and Migliaccio, G.C., (2019). “Progressive Design Build on the UW West Campus Utility Plant.” *Proceedings of Creative Construction Conference 2019*, Budapest, Hungary: CIB, June 29- July 2, 2019.
3. Fernandez-Angulo³, L.R., Migliaccio, G.C., and Gebken, R. (2019). “Emergent Subcontracting Models and Owner Involvement in Selecting Subcontracting Strategies and Participants in the U.S. Construction Industry.” *Proceedings of Creative Construction Conference 2019*, Budapest, Hungary: CIB, June 29- July 2, 2019.
4. Shang³, L., and Migliaccio, G.C., (2019). “Implementing Progressive Design Build, A Case Study: UW West Campus Utility Plant.” *Proceedings of CIB World Building Congress 2019*. Hong Kong, China: CIB, June 17-21, 2019.
5. Minchin, R.E. and Migliaccio, G. (2018) “Best Practices for the Design Process for the Construction-Manager-as-General-Contractor Delivery System;” *ATINER Civil Engineering Conference*. Athens, Greece, June 25-28, 2018.
6. Shang,³ L., Aziz, A.A., and Migliaccio, G.C., (2017). “An Investigation of the Traffic Safety Performance of PPP Transportation Projects in the United States.” *Proceedings of the Transportation Research Board 96th Annual Meeting*. Washington, DC: TRB, January 8-12, 2017.
7. Lee¹, W., Lin, K.Y., Migliaccio, G.C. and Seto. E. (2016). “Comparison of Alternative Wearable Accelerometers to Analyze Construction Workers’ Ergonomic Posture in Laboratory Conditions.” *Proceedings of the 16th International Conference on Computing in Civil and Building Engineering*. Osaka, Japan, July 6-8 2016.
8. Lee⁴, W., Lin, K.Y., Migliaccio, G.C. and Seto. E. (2016). “Looking Beyond the Workplace: Construction Laborers’ Working Life On Duty and Off Duty.” *Proceedings of the 7th International Conference on Applied Human Factors and Ergonomics*. Florida, USA, 27-31 July 2016.
9. Lee¹, W., Migliaccio, G.C., Lin, K.Y. and Seto. E. (2016). “Revisiting the Relationship between Physical Strain and Task Productivity.” *Proceedings of CIB World Building Congress 2016*. Tampere, Finland: CIB, May 30 – June 3, 2016.

¹ Master research student (now lecturer at University of Guadalajara)

² Doctoral research student

³ Master research student

⁴ Doctoral research student (now early career researcher in government agency)

10. Rigotti¹, E., Migliaccio, G.C., and De Marco, A. (2015). "Comparing Performance of Construction Projects Delivered through Different Delivery Methods." *2015 CSCE International Construction Specialty Conference*. Vancouver, BC, Canada: CSCE, June 8-10, 2015.
11. Biancardo², S., Osmanbhoy³, N., Ottesen⁴, J. Migliaccio, G.C., and Clevenger, C. (2015). "Closing the Contractual Circle: Investigating Emergent Subcontracting Approaches." *2015 CSCE International Construction Specialty Conference*. Vancouver, BC, Canada: CSCE, June 8-10, 2015.
12. Lee¹, W., Migliaccio, G.C., Lin, K.Y., and Russo⁵ F. (2015). "Lessons Learned From Using Bio- and Environmental-Sensing in Construction: A Field Implementation." *2015 CSCE International Construction Specialty Conference*. Vancouver, BC, Canada: CSCE, June 8-10, 2015.
13. Lee¹, W. and Migliaccio, G.C. (2014). "Field Use of Physiological Status Monitors (PSM) to Identify Workers' Physiologically Acceptable Bounds and Target Heart Rate Zones." *Proceedings of the 2014 ASCE International Conference on Computing in Civil and Building Engineering*. Orlando, FL: ASCE, June 23-25, 2014.
14. Gatti^{5,6}, U.C., El-Anwar, O., Migliaccio, G.C., and Lin, K.Y. (2014). "Using Discrete-Event Simulation to Support Building Asset Management: An Exploratory Case Study." *Proceedings of the 2014 ASCE Construction Research Congress*. Atlanta, GA: ASCE, May 19-21, 2014.
15. Migliaccio, G.C., Dossick, C. and Golden E. (2014). "Enhancing Interdisciplinary Thinking, Teamwork and Collaboration across CM, Arch and CE Disciplines through a Design-Build Competition." *Proceedings of the 2014 ASC Annual International Conference*. Washington, DC: ASC, March 26-28, 2014; **Best Paper Award**.
16. Gatti^{5,7}, U.C., El-Anwar, O., Migliaccio, G.C., and Lin, K.Y. (2014). "Using Discrete-Event Simulation to Quantify the Impacts of DOT's Building Systems Failures on Transportation System Users." *Proceedings of the Transportation Research Board 93rd Annual Meeting* (CD). Washington, DC: TRB, January 12-16, 2014.
17. Cheng, T., Teizer, J., Migliaccio, G.C., and Gatti^{5,7}, U.C. (2013). "Automated Task-level Activity Analysis through Fusion of Real Time Location Sensors and Worker's Thoracic Posture Data." *Proceedings of the 2013 ASCE International Workshop on Computing in Civil Engineering*. Los Angeles, CA: ASCE, June 23-25, 2013.
18. Ptschelinzew, L.R., Minchin, R.E., Migliaccio, G.C., Atkins, K.; Hostetler, G.A., Warne, T.R., and Nettuno, G. (2013); "Best Practices in Design Process Development for Accelerated Construction Project Delivery." *New Developments in Structural Engineering and Construction, Proceedings, 7th International Structural Engineering and Construction Conference*. Honolulu, Hawaii: ISEC, June 18-23, 2013, pp. 1205-1210.
19. Minchin, R.E., Ptschelinzew, L., Migliaccio, G.C., Gatti^{7,8}, U.C., Atkins, K., and Hostetler, G.A. (2013). "A Synthesis of Fast Track Highway Construction Delivery in the U.S." *Proceedings of CIB World Building Congress 2013*. Brisbane, Australia: CIB, 5 - 9 May 2013.
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¹ Visiting master research student

² Visiting doctoral research student

³ Master research student

⁴ Doctoral research student

⁵ Visiting early career researcher

⁶ Research associate (early career researcher)

⁷ Research associate (early career faculty researcher)

⁸ Doctoral research student

⁹ Visiting doctoral research student

- Construction Workers.” *Proceedings of CIB World Building Congress 2013*. Brisbane, Australia: CIB, 5 - 9 May 2013.
22. Gatti^{1,2}, U. C. and Migliaccio, G.C. (2013). “A Study on the Influence of Construction Workers’ Physiological Status and Jobsite Environment on Behavior and Performance.” *Proceedings of the 2013 Associated Schools of Construction (ASC) Conference*. San Luis Obispo, California: ASC, 10 - 13 April 2013.
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 25. Gatti^{1,2}, U.C., Migliaccio, G.C., Bogus, S.M., Schneider, S., (2012). “Using Wearable Physiological Status Monitors for Analyzing the Physical Strain – Productivity Relationship for Construction Tasks.” *Proceedings of the 2012 ASCE International Conference on Computing in Civil Engineering*. Clearwater Beach, FL: ASCE, June 17-20, 2012.
 26. Migliaccio, G.C., Teizer, J., Cheng, T., and Gatti^{1,2}, U.C., (2012). “Automatic Identification of Unsafe Bending Behavior of Construction Workers using Real-time Location Sensing and Physiological Status Monitoring.” *Proceedings of the 2012 ASCE Construction Research Congress*. West Lafayette, IN, USA: ASCE, May 21-23, 2012.
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 29. Migliaccio, G.C., Guindani, M., Zhang³, S. and Ghorai³, S., (2011). “Regression-based Prediction Methods for Adjusting Construction cost Estimates by Project Location.” *Proceedings of the Annual Conference of the Canadian Society for Civil Engineering 2011*. Ottawa, Canada: CSCE, June 14-17, 2011.
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 31. Forns-Samso⁴, F., Bogus, S.M., and Migliaccio, G.C., (2011). “Use of Building Information Modeling (BIM) in Facilities Management.” *Proceeding of the Annual Conference of the Canadian Society for Civil Engineering 2011*. Ottawa, Canada: CSCE, June 14-17, 2011.
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¹ Former doctoral research student (now assistant professor at Illinois Institute of Technology)

² Master research student

³ Former master research student (now early career researcher at University of New Mexico)

⁴ Master research student (now doctoral candidate at Aalto University)

⁵ Research associate (early career faculty researcher)

⁶ Doctoral research student

33. Gatti^{2,3}, U.C., Sharrer¹, A., Migliaccio, G.C., and Bogus, S.M., (2011). "Using Workforce's Physiological Strain Monitoring to Enhance Social Sustainability of Construction." *Proceedings of the International Conference on Sustainable Design and Construction 2011 (ICSDC 2011)* (CD). Kansas City, KS: ASCE, March 23-25, 2011.
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44. Dell'Osso, G.R., Iannone, F., Palella, M. and Migliaccio, G.C., (2008). "Envelope and Building Systems: A Tool for Controlling and Managing Smart Buildings." In M. Ettouney (Ed.), *Proceedings of the 2008 Architectural Engineering National Conference* (CD). Denver, CO: ASCE, September 25-27, 2008, ISBN 078441002X.

¹ Master research student

² Former master research student (now early career researcher at University of New Mexico)

³ Undergraduate research student

45. Shrestha, P. P., Migliaccio, G.C., O'Connor, J.T., and Gibson, G.E., (2007). "Comparison between Design Build and Design Bid Build Transportation Projects using Lane Mile Data." *Proceedings of the 2007 ASCE Construction Research Congress* (CD), May 6-8, 2007. ASCE, Nassau, Grand Bahamas, ISBN 0970786913.
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Abstract-Reviewed Poster Presentations

1. Migliaccio, G.C. and Gatti^{1,2}, U. C., (2013, April). "A Study of Design Management in Transportation Design-Build Projects." *2013 Construction Industry Research Conference*. Seattle, WA: April 19, 2013.
2. Migliaccio, G.C., Minchin, R.E., Gatti^{2,3}, U. C., and Ptschelinzew, L., (2013, January). "A Roadmap for Implementing Construction Manager General Contractor (CMGC) Project Delivery in Transportation." *Transportation Research Board 92th Annual Meeting* (CD). Washington, DC: TRB, January 13-17, 2013.
3. Gatti^{2,3}, U., Cheng, T., Migliaccio, G.C., Teizer, J., Bogus, S., and Schneider, S. (2012, July). "Applying Construction Workforce Physical Strain Monitoring to Enhance Productivity Management." Poster session, *2012 Construction Industry Institute Annual Conference*. Baltimore, MD: July 23-25, 2012.

¹ Research associate (early career faculty researcher)

² Doctoral research student

4. Migliaccio, G.C., D'Incognito¹, M., and Priyadarshini³, S., and Tai², T., (2011, November). "Construction Safety Performance Assessment." *2012 Construction Industry Research Conference*. Seattle, WA: November 4, 2011.
5. Gatti^{2,3}, U., Migliaccio, G.C., and Schneider S.S. (2011, April). "Measuring and Evaluating Physical Strain in Construction Workforce: A Way to Improve Productivity and Safety Management." *2011 47th Annual International Conference of the Associated Schools of Construction*, Omaha, NE, USA: ASC, April 6-9, 2011.
6. Bogus, S., Migliaccio, G.C., and Cordova¹, A., (2010, August). "Data Quality Assessment & Improvement Framework (DQAIF) for Manual Pavement Distress Surveys." Poster session, *2010 Construction Industry Institute Annual Conference*. Orlando, FL: August 3-5, 2010.
7. Migliaccio, G.C., and Martinez¹ R. M., (2009, August). "Establishing a Collaborative Environment among Project Stakeholders." Poster session, *2009 Construction Industry Institute Annual Conference*. Reno, NV: August 5-6, 2009.
8. Migliaccio, G.C., Martinez¹ A., and Zhang³, S., (2009, August). "Assessment of Methods for Adjusting Construction Cost Estimates by Project Location." Poster session, *2009 Construction Industry Institute Annual Conference*. Reno, NV: August 5-6, 2009.

Selected Research Reports and Deliverables

1. Muench, S. T., Migliaccio, G.C., and Mukherjee, A. (2019). *Final Report*, Final Report for Project 10-91A (Sustainable Highway Construction Practices) to National Cooperative Research Program, National Academies of Sciences, expected to be published as a web-only document in 2019.
2. Minchin, E., Migliaccio, G.C., Atkins, K., Warne, T., Gatti¹, U., Ptschelinzew, L., Hostetler, G., and Asiamah, S. (2014). "Design-Management Guide for Design-Build and Construction Manager/General Contractor Projects." *Draft Final Report for Project 15-46 to National Cooperative Research Program*, National Academies of Sciences (unpublished).
3. Gatti^{4,5}, U.C., El-Anwar, O., Migliaccio, G.C., and Lin, K.Y. (2013). "WSDOT Building Asset Management: An Exploratory Case Study of the Impact of Failures at the Corson Avenue TEF Shop on WSDOT Services." *Final Report for Project T4118-90 to Washington Department of Transportation*, Washington State Transportation Center TRAC), <http://www.wsdot.wa.gov/research/reports/fullreports/824.1.pdf>
4. Minchin, E., Migliaccio, G.C., (2013). *Interim Report 2*, Status Report on Project 15-46 (Design-Management Guide for Design-Build and Construction Manager/General Contractor Projects) to National Cooperative Research Program, National Academies of Sciences (unpublished).
5. Minchin, E., Migliaccio, G.C., (2013). *Interim Report 1*, Status Report on Project 15-46 (Design-Management Guide for Design-Build and Construction Manager/General Contractor Projects) to National Cooperative Research Program, National Academies of Sciences (unpublished).
6. Bandini, P., Bogus, S. M., Migliaccio, G.C., Montoya⁶, K. and Pham, H., (January, 2012). "Improving NMDOT's Pavement Distress Survey Methodology and Developing Correlations between FHWA's HPMS Distress Data and PMS Data." *Final Report for Project NM10MNT-01 to New Mexico Department of Transportation*, Research Bureau. <http://ow.ly/xlnV30oym7i>
7. Migliaccio, G.C., Knoebel G., and Martinez³, R., (November, 2010). *NCHRP Web-Only Document 171: Identification of Results-Oriented Public Involvement Strategies Between Transportation Agencies and Native American Tribal Communities* (a guidebook for successful communication,

¹ Visiting doctoral research student

² Undergraduate research student

³ Former master research student (now early career researcher at University of New Mexico)

⁴ Research associate (early career faculty researcher)

⁵ Doctoral research student

⁶ Master research student

- cooperation, and coordination strategies between transportation agencies and tribal communities). Final Report for Project 08-65 to the National Cooperative Research Program, National Academies of Sciences. http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_w171.pdf
8. Hall, J., Migliaccio, G.C., Tarefder, R., and Ghorai³, S., (July, 2010). *Road Lifecycle Innovative Financing Evaluation (RoadLIFE)*. Deliverable for Project NM08ADM-01 to New Mexico Department of Transportation, Research Bureau (published).
 9. Cordova³, A., Bogus, S., Migliaccio, G.C., and Lenke, L., (2009). *2009 Pavement Evaluation Report*. Deliverable to New Mexico Department of Transportation, Maintenance Bureau (unpublished).
 10. Migliaccio, G.C., Martinez³, R., and Knoebel G., (2009). *Interim Report*, (a guidebook for successful communication, cooperation, and coordination strategies between transportation agencies and tribal communities). Status Report on Project 08-65 to National Cooperative Research Program, National Academies of Sciences (unpublished).
 11. Cordova³, A., Bogus, S., Migliaccio, G.C., and Lenke, L., (2008). *2008 Pavement Evaluation Report*. Deliverable to New Mexico Department of Transportation, Maintenance Bureau (unpublished).
 12. Migliaccio, G.C., Martinez³, R., and Knoebel G., (2008). *Technical Memorandum*, (a guidebook for successful communication, cooperation, and coordination strategies between transportation agencies and tribal communities). Status Report on Project 08-65 to National Cooperative Research Program, National Academies of Sciences (unpublished).
 13. Mammoli, A., Migliaccio, G.C., and Zandbergen, P., (2008). *Report 08-521-0300-0310: Initial Assessment for Developing and Implementing a Statewide Energy Usage and Efficiency Database*. Final report to the New Mexico Energy, Minerals and Natural Resources Department, Albuquerque, NM (unpublished).
 14. Migliaccio, G.C., Shrestha, P. P., Clarke, M., O'Connor, J.T., and Gibson, G.E., (2006). *Report 0-4661-5: Monitoring and Evaluation of SH-130 Project Construction*. Final report to the Texas Department of Transportation, Center for Transportation Research, Austin, TX. http://www.utexas.edu/research/ctr/pdf_reports/0_4661_5.pdf.
 15. O'Connor, J.T., Gibson, G.E., Migliaccio, G.C., and Shrestha, P. P., and Clarke, M., (2006). "Early Implementation Efforts of Design-Build Delivery Method by Texas Department of Transportation." *Project Summary Report 0-4661-S* to the Texas Department of Transportation, Center for Transportation Research, Austin, TX.
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 18. O'Connor, J.T., Gibson, G.E., Migliaccio, G.C., and Shrestha, P. P., (2006). *Report 0-4661-2: 2005 Annual Interim Report on the Monitoring and Evaluation of SH 130 Project Construction*. Final report to the Texas Department of Transportation, Center for Transportation Research, Austin, TX, pp.36. Retrieve from http://www.utexas.edu/research/ctr/pdf_reports/0_4661_2.pdf.
 19. Gibson, G.E., O'Connor, J.T., Shrestha, P. P. and Migliaccio, G.C., (2006). *Report 0-4661-P5: Plan for Performance Benchmarking of SH 130*. Final report to the Texas Department of Transportation, Austin, TX, pp.94. http://www.utexas.edu/research/ctr/pdf_reports/0_4661_P5.pdf.
 20. O'Connor, J.T., Gibson, G.E., Migliaccio, G.C., and Shrestha, P. P., (2006). *Report 0-4661-P3: Organizational Structures and Communications on the SH130 Project*. Final report to the Texas Department of Transportation, CTR, Austin, TX, pp. 122. http://www.utexas.edu/research/ctr/pdf_reports/0_4661_P3.pdf.
 21. O'Connor, J.T., Gibson, G.E., and Migliaccio, G. C., (2005). *Report 0-4661-1: 2004 Annual Interim Report*. Final report to the Texas Department of Transportation, Austin, TX, pp.32. http://www.utexas.edu/research/ctr/pdf_reports/0_4661_1.pdf.

22. O'Connor, J.T., Gibson, G.E., and Migliaccio, G. C., (2004). *Report 0-4661-P2: Essential Elements of CDA Master Contract*. Final report to the Texas Department of Transportation, Austin, TX, pp.82. http://www.utexas.edu/research/ctr/pdf_reports/0_4661_P2.pdf.
23. O'Connor, J.T., Gibson, G.E., and Migliaccio, G. C., (2004). *Report 0-4661-P1: CDA Procurement Process Model*. Final report to the Texas Department of Transportation, Austin, TX, pp.56. http://www.utexas.edu/research/ctr/pdf_reports/0_4661_P1.pdf.

Academic Theses, Reports and Dissertations

1. Migliaccio, G. C., (2007). *Planning for Strategic Change in the Project Delivery Strategy* (Doctoral Dissertation, University of Texas at Austin). <http://repositories.lib.utexas.edu/bitstream/handle/2152/3370/migliaccioid14325.pdf?sequence=2>.
2. Migliaccio, G. C., (2006). *Life-Cycle Cost Analysis for Selection of Energy-Efficient Building Retrofit Strategies* (Unpublished Master Report, Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin).
3. Migliaccio, G. C., (2000). *The Role of Public Buildings into the Municipal Energy Budget* (Unpublished Laurea Thesis, Politecnico di Bari, Italy).

Other Contributions

1. Migliaccio, G.C., O'Connor, J.T., and Gibson, G.E., (2005). "Lessons Learned on Design-Build Procurement for Highway Projects." *Graduate and Industry Networking Conference Proceedings*, Austin, TX: University of Texas at Austin, April 28, 2005.
2. Migliaccio, G.C., Goel S., and O'Connor J.T., (2005). "Life-Cycle Cost Analysis for Selection of Energy-Efficient Building Components in Lodging Facilities." *Book of Abstracts of the 2005 International Conference on Energy, Environment and Disasters*, 24-30 July 2005, Charlotte, NC, USA, pp.19.
3. Borri, D., Catalano, M., Dell'Osso, G.R., Migliaccio, G.C., and Patano, M., (2000). "A Research Protocol for Assessing Effects of Built Environment on Insurgence of Asthma." Presented by Dino Borri at the *Habitat 2000 Conference*. Lecce, Italy: November 2000.

F. FUNDRAISING

Funding Statistics

- Total number of research proposals selected for funding (PI/Co-PI): 24
- Total funding secured: \$2,511,412 + €168,960 + \$210,999¹
 - 2010-current:
 - UW Awards: \$1,122,000 (UW Component ~ \$678,000)
 - Individual Award: €168,960 (Euros)
 - Additional proposals selected for funding: three proposals for \$210,999¹
 - 2007-10:
 - UNM Awards: \$1,389,412 (cumulative budget); ~\$558,000 (individual budget)

Contracts, Grants and Gifts by Funding Organization

- Italian Ministry of Education, University and Research (four)
- Transportation Research Board of the National Academies: National Cooperative Highway Research Program (three)
- Hewlett Packard Global Social Innovation (three)
- New Mexico Department of Transportation (three)
- Pacific Northwest Transportation Consortium (two)
- OSHA (one)
- WSDOT (one)
- Skanska USA Building (one)
- UW Capital Development Project (one)
- New Mexico Energy, Minerals, and Natural Resources Department (one)
- UNM Resource Allocation Committee (one)

International Competitive Awards (2010-current)

In 2013, the Italian Ministry of Education, University and Research issued an international call titled "*Messaggeri della Conoscenza*" (i.e. Knowledge Messengers) requesting oversea faculty members to submit proposals to introduce new courses in the Italian university curriculum. This call received 350 proposals and selected 113 proposals for implementation. I submitted four proposals of courses in construction engineering and management. All four proposals were selected for funding and implementation, ranking between 25th and 28th place. I implemented my proposals by developing and delivering the courses at the University of Naples, Federico II in Italy in 2014. As part of these projects, the top two students in each of the four courses were funded for a research internship at the University of Washington, which occurred in the 2014-15 academic year.

1. Awardee, *Design and Deliver Course on Project Management for Italian Engineering Students*, International Competition Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department, Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Universita' e della Ricerca*), 2014, Total Budget = 42,240 Euros.
2. Awardee, *Design and Deliver Course on Construction Contracting for Italian Engineering Students*, Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department,

¹ These three proposals were selected for funding but not funded for factors beyond Dr. Migliaccio's control. For more details, see list of proposals on the next page.

Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Università e della Ricerca*), 2014, Total Budget = 42,240 Euros.

3. Awardee, *Design and Deliver Course on Construction Equipment Management for Italian Engineering Students*, Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department, Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Università e della Ricerca*), 2014, Total Budget = 42,240 Euros.
4. Awardee, *Design and Deliver Course on Advanced Construction Equipment Management for Italian Engineering Students*, Knowledge Messengers Program (*Messaggeri della Conoscenza*), Higher Education Department, Italian Ministry of Education, University and Research (*Ministero dell'Istruzione, dell'Università e della Ricerca*), 2014, Total Budget = 42,240 Euros.

National/State Competitive Awards (2010-current)

5. Principal Investigator: *Learning to Create Sustainable Built Environments: Experiential and Contextual Learning (ECL) with Information and Communication Technology for a 21st Century Collaborative Global Education*. HP Catalyst Initiative. Amount: \$158,000 (~\$130,000 in equipment + \$20,000 in cash + \$5,000 in services + \$3,000 in travel funds to attend HP Catalyst Summit in Beijing). Co-PIs: Carrie Dossick, Ken-Yu Lin, Omar El-Anwar, and Ahmed Aziz. Period: September 2011-August 2013.
6. Principal Investigator: Extension of *Learning to Create Sustainable Built Environments: Experiential and Contextual Learning (ECL) with Information and Communication Technology for a 21st Century Collaborative Global Education*. HP Catalyst Initiative. Amount: \$23,000 (~\$20,000 in additional equipment + \$3,000 in travel funds for a second attendee to HP Catalyst Summit in Beijing). Period: September 2011-August 2013.
7. Co-Principal Investigator: *Developing Fall Protection Training Materials for Non-English Speaking and Illiterate Construction Workers*. OSHA Susan Harwood Training Grant. Amount: ~\$43,000. PI: Ken-Yu Lin. Period: September 2011-December 2012.
8. Co-Principal Investigator: *Design Management Guide for Design Build and Construction Manager/General Contractor Projects*. Subcontract from University of Florida on research contract by TRB National Cooperative Highway Research Program, NCHRP 15-46. UW Amount: \$95,000 (Total Amount = \$400,000). PI: Edward Minchin. Period: May 2012-October 2013.
9. Principal Investigator: *ECL+VI Construction Catalyst – Merging UW Experiential and Contextual Learning (ECL) Model with MMUST Vertical Integration Model*. HP Leadership Fund. UW Amount: \$68,000 (Total Amount = \$100,000). Co-PIs: Ahmed Aziz, Ken-Yu Lin, Omar El-Anwar, Carrie Dossick, Kimo Griggs. Period: July 2012-June 2014.
10. Co-Principal Investigator: *Identifying and Analyzing the Relative Advantages and Disadvantages of Public-Private Partnerships and Traditional Delivery for Roadway Projects*. Pacific Northwest Transportation Consortium. Amount: ~\$25,000. PI: Jan Whittington. Period: September 2013-October 2014.
11. Co-Principal Investigator: *Analysis of Roadway Safety under the Alternative Project Delivery Systems*. Pacific Northwest Transportation Consortium. Amount: ~\$40,000. PI: Ahmed Aziz. Period: July 2015- June 2016.
12. Co-Principal Investigator: *Sustainable Highway Construction Practices*. Part of research contract with TRB National Cooperative Highway Research Program, NCHRP 10-91A. Contract Amount = \$300,000. PI: Steve Muench. Period: August 2016-July 2018.

Other Awards (2010-current)

13. Co-Principal Investigator: *Building Asset Management: An Exploratory Case Study*. Washington Department of Transportation. Amount: ~\$15,000. PI: Omar El-Anwar, Co-PIs: Giovanni Migliaccio, Ken-Yu Lin. Period: November 2012-June 2013.
14. Principal Investigator: *Field Study of Physiological Status Monitoring (PSM) Technologies*. Skanska USA Buildings. Amount: \$10,000. Period: June 2013-December 2013.
15. Principal Investigator: *Progressive Design-Build Case Study*. UW Planning and Management Student Internship Funding Request. Amount: \$8,716. Period: June 2016-December 2016.

Additional Proposals Selected for Funding (after selection a contract or grant was not awarded due to funding shortfall or other issues):

16. Principal Investigator (Apr 2011) – “Field Study of Physiological Status Monitoring (PSM) Technologies.” FIATECH. This project was approved by the FIATECH board, but a change in FIATECH staff resulted in missing an internal deadline to secure funding.
17. Principal Investigator (July 2011) – “Protection of Tribal-Sensitive Resources during Construction of Transportation Improvements.” Transnow (UW-based transportation center). Jul 2011 – Jun 2012 (Total Amount = \$295,000; USDOT Funding = \$117,445; WSDOT Funding = \$60,945). This project was selected for funding by Transnow. While waiting for the execution of a research contract, USDOT dissolved all university transportation centers, including Transnow.
18. Principal Investigator (June 2012) – “Worker Health and Safety Monitoring in a Steel Manufacturing and Fabrication Environment.” Sponsor: AIST Foundation. Funding request: \$7,500. This project was selected for funding by AIST, but the unavailability of an SMA-member company in the Northwest to act as the mentor for the project forestalled the pursuit of this opportunity.

Funded Proposals (2007-2010)

19. “Advanced Algorithms for Adjusting Cost Estimates by Location.” UNM Resource Allocation Committee, Interdisciplinary Large Grant-in-Aid for Research program. Co-PIs: Migliaccio and Guindani. Amount: \$7,965. Apr 2010-Sep 2010.
20. “Improve the Accuracy and Validity of NMDOT’s Pavement Condition Surveys and Develop Methods for Estimating FHWA’s New HPMS Pavement Cracking Data from PMS Data, NM10MNT-01.” New Mexico Department of Transportation. Co-PIs: Bandini, Bogus, and Migliaccio. Amount: \$90,000. Oct 2009–Feb 2011.
21. “A Guidebook for Successful Communication, Collaboration and Coordination Strategies between Transportation Agencies and Tribal Communities, NCHRP 08-65.” National Cooperative Highway Research Program, Transportation Research Board of the National Academies. PI: Migliaccio. Amount: \$199,970. Apr 2008–Apr 2010.
22. “Road Life Cycle Innovative Financing Evaluation (Road LIFE), NMDOT NM08ADM-01.” New Mexico Department of Transportation. Co-PIs: Hall, Migliaccio, and Tarefder. Amount: \$108,499. Mar 2008–Mar 2010.
23. “Pavement Condition Evaluation - UNM - Northern New Mexico.” New Mexico Department of Transportation. Co-PIs: Bogus and Migliaccio. Amount: \$932,978. Jan 2008–Dec 2010.¹
24. “Statewide Energy Usage and Efficiency Database Initial Assessment, EMNRD 08-521-0300-0310.” New Mexico Energy, Minerals, and Natural Resources Department (ENMRD). Co-PIs: Mammoli and Migliaccio. Amount: \$50,000. Apr 2008–Jun 2008.

¹ The last year of this project was canceled due to NMDOT budgetary constraints.

G. PROPOSAL WRITING

AT THE UNIVERSITY OF WASHINGTON (2010-CURRENT)

Statistics

- Total number of submitted proposals: 69
- Total amount of funding pursued: ~\$14,370,000 (Total with partners)
- Total number of funded research proposals (PI/Co-PI): 11
- Total amount secured: \$1,122,000 (UW Component ~ \$678,000)
- Additional proposals selected for funding: three proposals for \$210,999¹

Selected Proposals Not Funded:

1. PI (December 2019): “Guidelines for Applications of RFID and Wireless Technologies in Highway Construction and Asset Management.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$370,000. PI: Giovanni C. Migliaccio; Co-PIs: Wei Cheng (UW Tacoma), Juhua Hu (UW Tacoma).
2. Co-PI (December 2018): “Improving Rights-of-Way Acquisition and Compensation Practices for Utility Relocation.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$450,000. PI: Edd Gibson (Arizona State University); Co-PI: Giovanni Migliaccio.
3. Co-PI (November 2018): “Making Targets Matter: Managing Performance to Enhance Decision-Making.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$450,000. PI: Kenneth Sullivan (Arizona State University); Co-PIs: Giovanni Migliaccio and Brian Lines (University of Kansas), Jake Smithwick (University of North Carolina at Charlotte).
4. Co-PI (June 2018): “Study of US Roofing Industry and Its Workforce.” Sponsor: National Roofing Contractor Association (NRCA). Funding Request: ~\$70,000. Co-PIs: Bill Bender, Ken-Yu Lin, and Giovanni Migliaccio.
5. ²Co-PI (December 2017): “Systematic Approach for Estimating Construction Contract Time: A Guidebook.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$500,000. PI: Edward Minchin; Co-PIs: Giovanni Migliaccio and Dan Tran (University of Kansas).
6. PI (October 2017): “Construction Management Innovation Catalyst.” Sponsor: UW Global Innovation Fund (GIF). Funding Request: ~\$11,000. PI: Giovanni Migliaccio; Co-PIs: Yong-Woo Kim and Ken-Yu Lin.
7. Co-PI (December 2016): “A Guidebook for Implementing Alternative Technical Concepts into Project Delivery Methods.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$450,000. PI: Edward Minchin; Co-PI: Giovanni Migliaccio.
8. Co-PI (October 2016): “Sustainable Construction Supply Chain (SCSC) Strategy.” Sponsor: Politecnico di Torino. Funding Request: TBD. Co-PIs: Alberto De Marco and Giovanni Migliaccio.
9. Co-PI (January 2016): “A Guidebook for Post-Award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$500,000; PI: Pramen Shrestha; Co-PI: Giovanni Migliaccio.
10. Co-PI (March 2016): “Corporate Best Practices for Successful Productivity Improvement Programs.” Sponsor: Construction Industry Institute. PI: Hyun Woo Lee at UW, Co-PI: Giovanni Migliaccio. (If this proposal had been selected, a budget in the \$150,000-250,000 range was to be expected).

¹ These three proposals were selected for funding but not funded for factors beyond Dr. Migliaccio’s control. For more details, see list of proposals on the next page.

² Note: This proposal was ranked second among a competitive pool of proposals. If negotiations for a contract with the selected team had fallen apart, our team would have been invited to perform the research.

11. PI (March 2016): “Wearable Worker-Monitoring.” Sponsor: Construction Industry Institute. PI: Giovanni Migliaccio; Co-PI: Ken-Yu Lin. (If this proposal had been selected, a budget in the \$150,000-250,000 range was to be expected).
12. Co-PI (March 2016): “Integrated Project Delivery for Industrial Projects.” Sponsor: Construction Industry Institute. PI: Pramen Shrestha, Co-PIs: Giovanni Migliaccio and Edward Minchin. (If this proposal had been selected, a budget in the \$150,000-250,000 was to be expected).
13. Co-PI (March 2015): “Establishing a Relationship between Physical Strain and Construction Worker’s Performance.” Sponsor: UW Royal Research Fund program. Funding Request: ~\$40,000 in student support and equipment to support the establishment of construction ergonomics research at Sandpoint. PI: Ken-Yu Lin; Co-PIs: Giovanni Migliaccio and Edmund Seto.
14. Co-PI (April 2015): “Promote Project Management Education among Students in Construction Management Programs.” Sponsor: Project Management Institute. Funding Request: \$50,000. PI: Ahmed Aziz at UW; Co-PI: Giovanni Migliaccio.
15. Co-PI (May 2015): “Sensor and Wellness Driven Workforce Development for the Construction Industry.” Sponsor: NIOSH R01. Funding Request: ~\$2,000,000. PI: Ken-Yu Lin; Co-PIs: Giovanni Migliaccio and Edmund Seto.
16. PI (September 2015): “Applying Risk Analysis, Value Engineering, and Other Innovative Solutions for Project Delivery.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$200,000; PI: Giovanni Migliaccio; Co-PI: Babaak Ashuri.
17. PI (January 2015): “AASHTO Partnering Handbook, Second Edition.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$400,000. PI: Giovanni Migliaccio; Co-PI: Edward Minchin.
18. Co-PI (April 2015): “A Modeling Framework Explaining the Role of Worker’s Physiological Status and Jobsite Environment Factors on Worker Behavior and Performance.” Sponsor: UW Royal Research Fund – Bridge Fund program. Funding Request: ~\$30,000. PI: Giovanni Migliaccio.
19. PI (April 2014): “WSDOT Building Asset Management, An Impact Assessment Case Study.” Sponsor: WSDOT Research Office. Funding Request: ~\$41,670. PI: Giovanni Migliaccio; Co-PIs: Omar El-Anwar and Ken-Yu Lin.
20. PI (December 2014): “Capturing and Learning Essential Consultant-Developed Knowledge within Departments of Transportation.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$250,000. PI: Giovanni Migliaccio; Co-PIs: Babaak Ashuri and Adjo Amekudzi-Kennedy.
21. Co-PI (December 2014): “Guide for Civil Integrated Management (CIM) in Departments of Transportation.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$250,000. PI: Jay Mezher; Co-PIs: Giovanni Migliaccio and Carrie Dossick.
22. PI (March 2014): “Definition and Measurement of Engineering/Design Deliverable Quality.” Sponsor: Construction Industry Institute. PI: Giovanni Migliaccio; Co-PI: Edward Minchin and Dan Tran. (If this proposal had been selected, a budget in the \$150,000-250,000 range was to be expected).
23. PI (March 2014): “Improving Project Progress and Performance Assessment.” Sponsor: Construction Industry Institute. PI: Giovanni Migliaccio. (If this project had been selected, a budget in the \$150,000-250,000 range was to be expected).
24. PI (March 2014): “Soft Skills for Successful Project Leaders on Global Projects.” Sponsor: Construction Industry Institute. PI: Giovanni Migliaccio; Co-PI: Amy Kim. (If this proposal had been selected, a budget in the \$150,000-250,000 range was to be expected).
25. PI (November 2013): “Design-Construction Collaboration for Global Projects.” Sponsor: UW College of Built Environments. Funding Request: \$6,000. PI: Giovanni Migliaccio; Co-PIs: Elizabeth Golden and Jessica Kaminsky.
26. Co-PI (May 2013): “Presidio Parkway Comparative Case Study.” Sponsor: San Francisco County Transportation Authority (SFCTA). Funding Request: ~\$220,000. PI: Jan Whittington; Co-PIs: Giovanni Migliaccio, Ahmed Aziz, and Justin Marlowe.

27. Co-PI (April 2013): “Optimizing the Risk and Cost of Materials QA Programs.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$400,000. PI: Dulcy Abraham; Co-PI: Giovanni Migliaccio.
28. PI (March 2013): “A Modeling Framework Explaining the Role of Worker’s Physiological Status and Jobsite Environment Factors on Worker Behavior and Performance.” Sponsor: UW Royal Research Fund program. Funding Request: ~\$40,000 in student support and equipment to support the establishment of construction ergonomics research at Sandpoint. PI: Giovanni Migliaccio; Co-PI: Peter Johnson.
29. Co-PI (April 2013): “Successful Delivery of Mega-projects.” Sponsor: Construction Industry Institute. PI: Pramen Shrestha at UNLV, Co-PIs: Giovanni Migliaccio and Carrie Dossick. (If this proposal had been selected, a budget in the \$150,000-250,000 range was to be expected).
30. Co-PI (April 2013): “Successful Delivery of Fast Track Projects.” Sponsor: Construction Industry Institute. PI: Carrie Dossick; Co-PIs: Giovanni Migliaccio, Bud Griffis, and Andrew Bates. (If this proposal had been selected, a budget in the \$150,000-250,000 range was to be expected).
31. Co-PI (October 2012): “NCHRP 10-91: Guidebook for Selecting and Implementing Sustainable Highway Construction Practices.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$475,000. PI: Steve Muench; Co-PI: Giovanni Migliaccio
32. PI (September 2012): “A modeling framework explaining the role of worker’s physiological status and jobsite environment factors on worker behavior and performance.” Sponsor: UW Royal Research Fund program. Funding Request: ~\$40,000. PI: Giovanni Migliaccio; Co-PI: Peter Johnson.
33. PI (August 2012): “Alternative Technical Concepts for Design-Build and Construction Manager/General Contractor (CMGC) Projects.” Sponsor: Transportation Research Board (TRB). Fund request: \$40,000. PI: Giovanni Migliaccio; Co-PI: Ahmed Aziz.
34. PI (March 2012): “Establishing a Relationship between Physical Strain and Construction Worker’s Performance.” Sponsor: UW Royal Research Fund program. Funding Request: ~\$40,000 in student support and equipment to support the establishment of construction ergonomics research at Sandpoint. PI: Giovanni Migliaccio.
35. Co-PI (April 2012): “Enabling a Sustainable Approach to Building Asset Management in WSDOT.” Sponsor: PacTrans. Funding Request: ~\$60,000. Collaborations: Internal (PI: Omar El-Anwar; Co-PIs: Giovanni Migliaccio and Ken-Yu Lin).
36. PI (March 2012): “Establishing a Relationship between Physical Strain and Construction Worker’s Performance.” Sponsor: UW Royal Research Fund program. Funding Request: ~\$40,000 in student support and equipment to support the establishment of construction ergonomics research at Sandpoint. PI: Giovanni Migliaccio.
37. Co-PI (May 2011): “Learning Through Guided Research – Creating Materials and Methods Curriculum with Life-Cycle Analysis and Information Literacy.” Sponsor: NSF. Funding Request: ~\$200,000. Collaborations: Internal (PI: Ken-Yu Lin; Co-PIs: Giovanni Migliaccio and John Holmes).
38. Co-PI (August 2010): “Creating a Company Safety and Health Management System (CSHMS) for Small Construction Companies.” Sponsor: OSHA Susan Harwood Training Grant program. Funding Request: ~\$248,000. Collaborations: Internal (Co-PIs: Giovanni Migliaccio and Ken-Yu Lin); External (Jerald Rounds, University of New Mexico, AGC New Mexico, AGC Washington)
39. PI (September 2010): “Establishing a Relationship between Physical Strain and Construction Worker’s Performance.” Sponsor: UW Royal Research Fund program. Funding Request: ~\$38,000 in student support and equipment to support the establishment of construction ergonomics research at Sandpoint. PI: Giovanni Migliaccio.
40. ¹PI (October 2010): “A Guidebook for Construction Manager-at-Risk Contracting for Highway Projects.” Sponsor: Transportation Research Board (TRB). Funding Request: ~\$400,000 in student support and salaries to develop Guidebook for Using Construction Management at Risk on Highway

¹ Note: This proposal was ranked second among a competitive pool of proposals. If negotiations for a contract with the selected team had fallen apart, our team would have been invited to perform the research.

- Projects. Collaborations: Internal (PI: Giovanni Migliaccio; Co-PIs: Jan Whittington and Ahmed Aziz); External (Co-PIs: John Gambatese at Oregon State University, Cliff Schexnayder at Arizona State University, and Debra Brisk at Kimley-Horn).
41. Co-PI (November 2010): “Green Market for Electrical Contractors: Emergent Trends, Opportunities and Business Action Plan.” Sponsor: ELECTRI International Foundation. Funding Request: \$40,000. Collaborations: Internal (PI: John Schaufelberger; Co-PI: Giovanni Migliaccio).
 42. Co-PI (December 2010): “An Instrument to Enact the Reality-Virtuality-Mediality Continuum.” Sponsor: NSF Major Research Instrumentation grant program (Submitted proposal for UW internal competition). Funding Request: \$1,750,000. Collaborations: Internal (Co-PIs: Giovanni Migliaccio, Carrie Dossick, and Ken-Yu Lin); External (Peter Oppenheimer, UW HIT Lab). Outcome: This proposal was not selected by the UW internal committee.
 43. Co-PI (February 2011): “Strategies for HSE Hazard Recognition.” Sponsor: Construction Industry Institute (CII). Funding Request: Not Applicable (The qualifications statements requested did not require a budget. However, if this project had been selected, a budget in the \$150,000-250,000 range was to be expected.). Collaborations: Internal: (Co-PI: Giovanni Migliaccio); External (PI: John Gambatese, Oregon State University).
 44. Co-PI (February 2011): “Deploying Best Practices in Developing Countries.” Sponsor: Construction Industry Institute (CII). Funding Request: Not Applicable (The qualifications statements requested did not require a budget. However, if this project had been selected, a budget in the \$150,000-250,000 range was to be expected). Collaborations: Internal (PI: John Schaufelberger; Co-PI: Giovanni Migliaccio).
 45. PI (February 2011): “Using Physiological Status Monitoring on Construction and Maintenance Crews in Workzones.” Sponsor: Transnow. Funding Request: ~\$ 48,000. PI: Giovanni Migliaccio.
 46. Co-PI (February 2011): “Expedited Delivery and Environmental Review: Survey and Lessons Learned.” Sponsor: Transnow. Funding Request: ~\$78,000. Collaborations: Internal (PI: Jan Whittington-PI; Co-PI: Giovanni Migliaccio).
 47. Co-PI (March 2011): “CI-Team Demo: Cyber-enabled Human Networks for Experimentation and Learning in a Reality-Virtuality-Mediality Environment.” Sponsor: NSF. Funding Request: ~\$250,000 (UW component = \$110,000). Collaborations: Internal (Co-PIs: Giovanni Migliaccio and Ken-Yu Lin.); External (PI: Rafael Fierro at University of New Mexico; Co-PIs: Terran Lane and Suzanne Schneider). Panel Recommendation: **Competitive**¹.
 48. Co-PI (March 2011): “Coventry University (CU): Proposal to EU Learning Lifelong Learning Programme (LLP).” Sponsor: European Commission. Funding Request: ~\$17,500. Collaborations: Internal (Co-PI: Giovanni Migliaccio); External (PI: Suzanne Hilton at Coventry University).
 49. PI (May 2011): “Learning of Occupational Health and Safety Issues through Lab Experiments.” Sponsor: ELECTRI International Foundation. Funding Request: \$7,000. PI: Giovanni Migliaccio.
 50. PI (June 2011): “Worker health and safety monitoring in a steel manufacturing and fabrication environment.” Sponsor: AIST Foundation. Funding Request: \$17,500. PI: Giovanni Migliaccio.
 51. PI (September 2011): “Establishing a Relationship between Physical Strain and Construction Worker’s Performance.” Sponsor: UW Royal Research Fund program. Funding Request: ~\$38,000 in student support and equipment to support the establishment of construction ergonomics research at Sandpoint. PI: Giovanni Migliaccio.
 52. ²Co-PI (October 2011): “Effective Project Scoping Practices to Improve On-Time and On-Budget Delivery of Highway Projects.” Sponsor: Transportation Research Board (TRB) (subcontract from Arizona State University). Funding Request: \$250,000. Collaborations: Internal (Co-PI: Giovanni Migliaccio and Jan Whittington); External (PI: Edd Gibson at Arizona State University).

¹ This proposal was deemed competitive by the NSF panel, but it was not selected for funding by the program officer.

² Note: This proposal was ranked second among a competitive pool of proposals. If negotiations for a contract with the selected team had fallen apart, our team would have been invited to perform the research.

53. ¹Co-PI (January 2012): “The Future of Transportation Planning in State DOTs.” Sponsor: Transportation Research Board (TRB). Funding Request: \$250,000. Collaborations: Internal (PI: Jan Whittington; Co-PI: Giovanni Migliaccio); External (Co-PI: Elizabeth Deakin and UC Berkeley).
54. Co-PI (January 2012): “Emergent Dynamics of Distributed Energy Resources.” Sponsor: National Cooperative Highway Research Program, RFP 08-88; (subcontract from University of New Mexico). Funding Request: \$477,000. Collaborations: Internal (Co-PIs: Giovanni Migliaccio and Ken-Yu Lin,); External (PI: Andrea Mammoli at the University of New Mexico; Co-PIs: Thomas Caudell, Peter Vorobieff, and Melanie Moses).
55. PI (February 2012): “Guidebook for Successfully Assessing and Managing Risks for Airport Capital and Maintenance Projects.” Sponsor: Transportation Research Board (TRB). Funding Request: \$300,000. Collaborations: Internal (PI: Giovanni Migliaccio; Co-PI: Ahmed Aziz); External (Co-PIs: Ben Emam at Tetra Tech Consulting and Baabak Ashuri at Georgia Tech).

AT THE UNIVERSITY OF NEW MEXICO (2007-10)

Statistics

Total funding secured: **\$1,389,412 (shared budget); ~\$558,000 (individual budget)**

Total number of funded research proposals (PI/Co-PI): **Six**

¹ Note: This proposal was ranked second among a competitive pool of proposals. If negotiations for a contract with the selected team had fallen apart, our team would have been invited to perform the research.

H. TEACHING AND MENTORING

Courses Taught at the University of Washington

Undergraduate

- **CM 310: *Introduction to the Construction Industry***, Autumn 2014, 2015, 2017, 2018
Ninety-minute session twice a week, delivered through traditional lectures and practice-oriented guest lectures; enhanced through an online classroom management system (UW Catalyst or Canvas).
- **CM 332: *Construction Equipment Management***, Spring 2015, 2016, 2018, 2019
Ninety -minute session twice a week, delivered through traditional lectures and practice-oriented guest lectures; enhanced through an online classroom management system (UW Catalyst or Canvas).
- **CM 421: *Project Management I***, Winter 2011, 2012, 2013, 2014
Ninety-minute session twice a week, delivered through traditional lectures, practice-oriented guest lectures, and student team project presentations; enhanced through an online classroom management system (UW Catalyst).
- **CM 313: *Construction Materials and Methods I***, Autumn 2011, 2012, 2013
Two-hour session twice a week plus two lab/field visit tracks, delivered through traditional lectures, practical lab assignments, interactive site visits to material vendors, and student project showcase poster and/or presentations; enhanced through an online classroom management system (UW Catalyst).

Postgraduate

- **CM 586: *Utility System Construction***, Spring 2011-14; Summer 2015-18
Online course delivered asynchronously, relying on weekly online discussion boards on given sets of case study questions, and requiring individual written assignments on case study problems; delivered through an online classroom management system (Moodle or Canvas)
- (New Course) **CM 598: *Managing Scope and Risks on Construction Projects***, Winter 2015, 2018
Weekly three-hour session, delivered through a hybrid approach, comprising lectures, in-class discussion sessions, online weekly discussion boards, and short practice-oriented guest lectures; enhanced through an online classroom management system (UW Catalyst or Canvas)
- **CM 555: *Construction Firm Management***, Winter 2016
Weekly three-hour session, delivered through a hybrid approach, comprising lectures, in-class discussion sessions, online weekly discussion boards, and short practice-oriented guest lectures; enhanced through an online classroom management system (UW Catalyst or Canvas)
- **CM 535: *Research Methods in Construction***, Summer 2012 [co-taught with K.Y. Lin]
Weekly three-hour session, delivered through traditional lectures and in-class discussions; enhanced through an online classroom management system (UW Catalyst)

Courses Taught at the University of New Mexico

Undergraduate

- **CE 372: *Construction Contracting***, Fall 2007, 2008, 2009
Ninety-minute session twice a week, delivered through traditional lectures, practice-oriented guest lectures, and student team presentations; enhanced through an online classroom management system (WebCT)
- **CE 370: *Construction Equipment and Methods***, Spring 2008, 2009, 2010
Ninety-minute session twice a week, delivered through traditional lectures, practice-oriented guest lectures, and student team presentations; enhanced through an online classroom management system (WebCT)

Postgraduate

- (New Course) **CE 598: *Contemporary Issues in CEM: Research Trends***, Fall 2008
Ninety-minute session twice a week, delivered through a hybrid approach, comprising lectures, in-class discussion sessions, and online weekly discussion boards; enhanced through an online classroom management system (WebCT)
- (New Course) **CE 598: *Advanced Construction Equipment Management***, Spring 2008, 2009
Ninety-minute session twice a week, delivered through a hybrid approach, comprising lectures, in-class discussion sessions, and online weekly discussion boards; enhanced through an online classroom management system (WebCT)
- (New Course) **CE 598: *Contemporary Issues in CEM: Construction Industry Institute (CII) Best Practices***, Fall 2009
Weekly four-hour session, delivered through a live videoconference connection with a CII-hosted guest lecturer, augmented with locally handled in-class discussion sessions, and online weekly discussion boards; enhanced through an online classroom management system (WebCT). CII-delivered portion of curriculum was delivered to a network of a dozen of university programs in construction engineering and/or management.

Teaching Activities at the University of Texas:

Undergraduate

- **ARE 366: *Contracts, Ethic and Liabilities***, Spring 2007 (teaching assistant for Professor John Borchering – undergraduate course)

Postgraduate

- **CE 397: *Financial Management for Engineering and Construction Firms***, Summer 2005, 2006 (teaching assistant for Professor August Petersen – postgraduate course)

I. STUDENT SUPERVISION

AT THE UNIVERSITY OF WASHINGTON

Undergraduate Advisees:

Between 2010 and 2019, I served as program advisor to 10-12 undergraduate students per year.

Graduate Advisees/Committee Member:

#	Advisee	Quarter Year of Admission/Role/Progress	Graduation
1	Michael Woomer (MS)	Autumn 2011/ Chair /Research Paper	Autumn 2012 – graduated
2	Keith Palmer (PhD CivilEngr)	Committee Member (GSR)	Autumn 2012 – graduated
3	Shalini Priyadarshini (Ph.D.)	Autumn 2010/ Chair /Gen. Examination (7/13)	Out of program
4	Jeannie Natta	Autumn 2012/Advisor	Spring 2014 – graduated
5	Meshal A. Dhahi	Autumn 2012/ Chair /Research Paper	Autumn 2014 – graduated
6	Ian Schmidt (MS)	Autumn 2012/ Chair /Research Paper	Autumn 2014 – graduated
7	James R. Kuhn	Autumn 2012/ Chair /Research Paper	Autumn 2014 – graduated
8	Natasha Osmanbhoy	Spring 2014/ Chair /Thesis	Winter 2015 – graduated
9	Zhao Haotian (MS)	Spring 2013/Advisor	Autumn 2014 – graduated
10	Wesley Furste	Autumn 2014/Advisor	Autumn 2015 – graduated
11	Omid Parsaei	Autumn 2014/Advisor	Autumn 2016 – graduated
12	Yu Ye	Autumn 2014/Advisor	Autumn 2016 – graduated
13	Luming Shang (Ph.D.)	Autumn 2014/Committee Member	Spring 2019 – expected
14	Hamid Abdirad (Ph.D.)	Autumn 2014/Committee Member	Autumn 2019 – expected
15	Manisa Veeravigrom (PhD CivilEngr)	Committee Member (GSR)	Autumn 2015 – graduated
16	Sravva Reddy	Spring 2015/ Chair /Research Paper	Autumn 2016 – graduated
17	Saeed Farhangi	Autumn 2015/ Chair /Research Paper	Summer 2017 – graduated
18	Vaishnavi V Nevrekar	Autumn 2015/Advisor	Autumn 2017 – graduated
19	Nishant Gupta	Spring 2013/Advisor	Autumn 2017 – graduated
20	Wonil Lee (Ph.D.)	Autumn 2012/ Co-Chair /Gen. Examination (6/14)/Proposal (6/15)	Spring 2018 – graduated
21	Jeff Ottesen (Ph.D.)	Autumn 2014/ Chair /Gen. Examination (1/16)/Proposal (5/17)	Winter 2019 – graduated
22	Logan Panghyun Chun (MS)	Autumn 2017/Advisor	Summer 2018 – graduated
23	Zhenyu Zhang (Ph.D.)	Autumn 2016/Committee Member	Spring 2020 – expected
24	L. Rafael Fernandez (MS)	Winter 2018/ Chair /Thesis	Winter 2019 – graduated
25	Eva Lu (MS)	Autumn 2018/ Chair /Research Paper	Autumn 2019 – expected
26	James Feracor (PhD CivilEngr)	Committee Member (GSR)	Spring 2019 – expected
27	Mohnish Thakur (MS)	Winter 2019/ Chair /Research Paper	Spring 2020 – expected
28	Jacky Reyes (MS)	Winter 2020/ Chair / Thesis	Spring 2021 – expected

AT THE UNIVERSITY OF NEW MEXICO

Graduate Supervising Committee (Chair/Co-chair):

#	Advisee	Degree	Graduation
1	Bachtel B.	M.S. in Civil Engineering/CEM	Fall 2009
2	Martinez A.A.	Master in Construction Management	Spring 2010
3	Martinez R.M.	M.S. in Civil Engineering/CEM	Spring 2010
4	Cordova A. (*)	M.S. in Civil Engineering/CEM	Summer 2010
5	Ghorai S.	M.S. in Civil Engineering/CEM	Summer 2010
6	Zhang S.	Master in Construction Management	Summer 2010
7	Mitchell L.	M.S. in Civil Engineering/CEM	Summer 2010
8	Chavez M.A.	M.S. in Civil Engineering/CEM	Summer 2010
9	Danthuluri S.	M.S. in Civil Engineering/CEM	Fall 2010
10	Kunduru, R	M.S. in Civil Engineering/CEM	Fall 2010
11	Forns-Samso F. (*)	M.S. in Civil Engineering/CEM	Fall 2010
12	Gatti U. (*)	Ph.D. in Civil Engineering/CEM	Spring 2011
(*) Co-chair			

Graduate Supervising Committee (Member):

#	Advisee	Degree	Graduation	Main Supervisor
1	Anantaneni V.	Master in Construction Management	Fall 2007	Bogus S.
2	Mokkapati S.	Master in Construction Management	Fall 2007	Rounds J.
3	Highhouse G.	Master in Construction Management	Spring 2008	Bogus S.
4	Briggs A.	Master in Construction Management	Summer 2008	Rounds J.
5	Waggerman R.	Master in Construction Management	Summer 2008	Bogus S.
6	Wayne F.	Master in Construction Management	Fall 2008	Rounds J.
7	Goel S.	M.S. in Civil Engineering/CEM	Fall 2008	Bogus S.
8	Ao C.	M.S. in Civil Engineering/CEM	Summer 2009	Bogus S.
9	Jones, B.	M.S. in Civil Engineering/CEM	Fall 2009	Bogus S.
10	Bhave, S	M.E. in Manufacturing Engineering	Summer 2010	Lumia, R.
11	Roy, Jin	M.S. in Civil Engineering/CEM	Summer 2010	Bogus S.

Undergraduate Research Trainees:

#	Advisee	Degree	Semester	Comments
1	Martinez R.M.	B.S. in Civil Engineering	Spring 2008	Research Assistant (RA)
2	McCoy V.	B.S. in Civil Engineering	Summer 2009	RA

J. PUBLIC SPEAKING

Dr. Migliaccio's Selected Public Speaking Events

1. Invited speaker: "Collaborative Contracting – Global Trends and Local Benefits." Presentation at *NEC Contracts in Hong Kong – The Legal Landscape and Beyond*, Hong Kong, June 25, 2019.
2. Invited speaker: "Innovative Subcontracting Models: Advantages, Disadvantages and Lessons Learned from their Use - A US Perspective" Presentation at *Department of Civil Engineering, The University of Hong Kong*, Hong Kong, June 24, 2019.
3. Host talk: "Closing Remarks." Presentation at *New Frontiers in Construction Conference*, Seattle, WA, March 21, 2019.
4. Invited speaker: "Moving Toward a Comprehensive Project Delivery Toolbox." Presentation at *Advancing Procurement & Project Management Collaboration Workshop*, City of Seattle, Seattle, WA, October 16, 2018.
5. Invited guest lecture: "Activity-Based Discrete-Event Simulation." Ph.D. seminar, Politecnico di Torino, Turin, Italy, June 27, 2018.
6. Panel lead: "Emergent Project Delivery, Procurement, and Contracting." *New Frontiers in Construction Conference*, Seattle, WA, March 15, 2018.
7. Invited keynote speaker: "CM as a Building Block toward a Comprehensive Project Delivery Toolbox." Presentation at *ConsMa 2018 Conference*, Seoul, South Korea, March 12-13, 2018.
8. Invited guest lecturer: "Risk Management in Construction." Graduate seminar, Arizona State University, Tempe, AZ, February 19, 2018.
9. Invited co-speaker: "A City to Love: Visions of a Public Realm." Report from 2015-2106 Runstad Center Affiliate Fellows in Real Estate Studies. Presentation at NAIOP Breakfast, Seattle, WA, January 18, 2017
10. Invited co-speaker: "A City to Love: Visions of a Public Realm." Report from 2015-2106 Runstad Center Affiliate Fellows in Real Estate Studies. Presentation at joint meeting of Seattle Design and Planning Commissions, City of Seattle, Seattle, WA, October 6, 2016
11. Invited co-speaker: "A City to Love: Visions of a Public Realm." Report from 2015-2106 Runstad Center Affiliate Fellows in Real Estate Studies. Presentation at Impact Hub, Seattle, WA, September 27, 2016
12. Panel Lead: "Project Delivery and Management." Presentation at *New Frontiers in Construction Conference*, Seattle, WA, March 4, 2016.
13. Featured speaker: "Emergent Approaches to Subcontracting." Presentation at *New Frontiers in Construction Conference*, Seattle, WA, March 4, 2016.
14. Featured speaker: "Physiological Cost of Concrete Construction." Presentation at *New Frontiers in Construction Conference*, Seattle, WA, March 4, 2016.
15. Invited speaker: "Understanding Processes Affecting Construction Workers' Performance through Use of Bio and Environmental Sensing." Presentation at *Northwest Construction Consumer Council (NWCCC) Annual Conference*, Everett, WA, October 21, 2015.
16. Invited speaker: "The Importance of Managing Scope and Risks on Construction Projects." Professional guest lecture series, Universidad de Piura, Piura, Peru, July 10, 2015.
17. Invited speaker: "Divulgazione dei Progetti Messaggeri della Conoscenza." Tele-presentation, University of Naples, Federico II, Naples, Italy, February 27, 2015.
18. Invited speaker: "Design-Management for Design-Build and Construction Manager/General Contractor Projects." Presentation to TRB AFH15 committee, Washington, DC, January 23, 2015.

19. Invited speaker: "Design-Management for Design-Build and Construction Manager/General Contractor Projects." Professional Guest Lecture Series, University of Naples, Federico II, Naples, Italy, July 25, 2014.
20. Invited speaker: "Lifecycle of an Applied Research Project." Presentation to the faculty in the construction and project management discipline, Queensland University of Technology, Brisbane, Australia, May 27, 2014.
21. Featured speaker: "Power Up Your Crews, Peak Performance on the Jobsite – University of Washington/Skanska Innovation Grant." Presentation at *2013 CERC Construction Industry Research Conference*, Seattle, WA.
22. Invited speaker: "Construction Research and Educational Activities at UW Department of Construction Management." Graduate seminar, Tianjin University Construction Management Students, Tianjin, China, April 10, 2012.
23. Invited speaker: "Construction Ergonomics and Safety Research and Educational Activities at UW Department of Construction Management." Graduate seminar, Tsinghua University Construction Safety Research Center, Beijing, China, April 9, 2012.
24. Invited trainer: "Planning: Strategies for Successful Transportation Projects on Tribal Lands." Webcast training session for America's Byway Resource Center, July 2011.
25. Invited trainer: "Train-the-trainer session on NCHRP Report 690." Training session to directors of Tribal Technical Assistance Program centers, Nashville, TN, May 6, 2011.
26. Invited speaker: "A Guidebook for Communication, Coordination, and Cooperation between Tribal Communities and Transportation Agencies." Presentation to the TRB ABE80 committee, Washington, DC, January 23, 2011.
27. Featured speaker: "Research in Construction Management: A Melting Pot of Disciplines." Presentation at the *Research Exposed!* undergraduate research program seminar series at UW, Seattle, WA, October 20, 2010.
28. Invited speaker: "Assessing Physical Strain in Construction Workforce: An Initial Step for Improving Safety and Productivity Management." Presentation to the NIST Building and Fire Research Laboratory, Gaithersburg, MD, September 1, 2010.
29. Panel moderator and speaker: "Establishing a Collaborative Environment among Project Stakeholders: Transportation Agency/Tribe Collaboration Guidebook." *2009 NW Tribal Transportation Symposium*, Portland, OR, April 21, 2010.
30. Webinar speaker: "NCHRP Transportation Agency/Tribe Collaboration Guidebook." *FHWA Tribal Technical Assistance Program Network*, February 29, 2010.
31. Panel moderator and speaker: "Partnerships between Tribes and Transportation Agencies." *NW Transportation Conference*, Corvallis, OR, February 10, 2010.
32. Panel moderator and speaker: "Collaboration between Tribes and Transportation Agencies," *Paving and Transportation Conference*, Albuquerque, NM, January 4-5, 2010.
33. Invited panelist: *Indian Country Research: Issues and Expectations*. Transportation Research Board, Session #701, Washington, DC, January 13, 2010.
34. Invited speaker: "3C Strategy Selection Toolbox." *Intertribal Transportation Association Conference*, Las Vegas, NV, December 9-11, 2009.
35. Invited speaker: *The Next Step toward Zero Accidents: Technology for a Construction Worker-Centered Approach*. AGC New Mexico Safety Committee Meeting, Albuquerque, NM, October 20, 2009.
36. Invited speaker to plenary session: "NCHRP 08-65 – A Guidebook for Successful Communication, Cooperation and Coordination Strategies between Transportation Agencies and Tribal Communities."

2009 MNDOT/FHWA/ BIA Tribes and Transportation Annual Conference, Duluth, MN, October 1-2, 2009.

37. Invited speaker to breakout session: “Successful Tribal Communication and Coordination on Cultural Resource Preservation.” *2009 MNDOT/FHWA/ BIA Tribes and Transportation Annual Conference*, Duluth, MN, October 1-2, 2009.
38. Invited panelist for workshop: “Overcoming Barriers to Data/Knowledge Gaps: NCHRP Project 08-65.” *Workshop #172: What Every Transportation Professional Needs to Know about Tribal Transportation*. Transportation Research Board, Washington, DC, January 11, 2009.
39. Invited to organize a workshop: “Issues and Communication, Coordination and Cooperation Strategies between Transportation Agencies and Tribal Communities.” *Intertribal Transportation Association Conference*, Las Vegas, NV, December 12, 2008.
40. Invited speaker: *Successful Communication, Coordination and Cooperation Strategies between Transportation Agencies and Tribal Communities*. National Congress of American Indians, Transportation Committee, Phoenix, AZ, October 17, 2008.
41. Panel coordinator: “Planning for Strategic Change in Project Delivery Strategy.” *Design-Build Institute of America (DBIA) Transportation Annual Conference*, Louisville, KY, April 17, 2008.
42. Invited speaker: “Selecting Building Retrofit Strategies through Energy Simulation and Life-Cycle Costing.” *2005 Engineers for a Sustainable World (ESW) National Conference*, Austin, TX, USA, October 8, 2005.

Selected Presentations by Research Trainees/Advisees

1. Fernandez, L.R., “Emergent Subcontracting Models and Owner Involvement in Selecting Subcontracting Strategies and Participants in the U.S. Construction Industry.” *New Frontiers in Construction*, Seattle, WA, USA, Mar 21, 2019.
2. Lee, W. “Wearable technologies in the era of the Internet of things (IoT) and its application to ergonomics practices.” *PSHFES 17th Annual Symposium*, Des Moines, WA, September 2017.
3. Lee, W., Lin, K.Y., Migliaccio, G.C., & Seto, E. “Looking beyond the workplace: Construction laborers’ working life on duty and off duty.” *Seventh International Conference on Applied Human Factors and Ergonomics*, Orlando, FL, July 2016.
4. Migliaccio, G.C., & Lee, W. “Understanding Processes Affecting Construction Workers’ Performance through Use of Bio and Environmental Sensing.” *NWCCC Annual Conference*, Everett, WA. (Invited presentation), October 2015.
5. Lee, W., Lin, K.Y., Migliaccio, G.C., & Seto, E. “Looking beyond the workplace: Construction laborer’s working life on duty and off duty.” *Northwest Occupational Health Conference*, Bremerton, WA. (Invited presentation), October 2015.
6. D’Incognito, M. and Priyadarshini, S., “Construction Safety Performance Assessment.” *Construction Industry Research Conference*, Seattle, WA, USA, Nov 2, 2011.
7. Tai, T., “HP Catalyst Initiative at UW Department of Construction Management.” *Construction Industry Research Conference*, Seattle, WA, USA, Nov 2, 2011.
8. Gatti, U.C. “Wearable Physiological Status Monitors for Measuring and Evaluating Worker’s Physical Strain.” *2011 ASCE International Conference on Computing in Civil Engineering*, Miami, FL: ASCE, June 19-22, 2011.
9. Gatti, U., “Assessing Physical Strain in Construction Workforce: A First Step for Improving Safety and Productivity Management.” *2011 CSCE Annual General Meeting & Conference*, Ottawa, ON, Canada: CSCE, June 14-17, 2011.

10. Gatti, U., "Measuring and Evaluating Physical Strain in Construction Workforce: A Way to Improve Productivity and Safety Management." *2011 47th Annual International Conference of the Associated Schools of Construction*, Omaha, NE, USA: ASC, April 6-9, 2011.
11. Sharrer, A., "Using Workforce's Physiological Strain Monitoring to Enhance Social Sustainability of Construction." *International Conference on Sustainable Design and Construction 2011 (ICSDC 2011)* (CD). Kansas City, KS: ASCE, March 23-25, 2011.
12. Gatti, U., "Assessing Physical Strain in Construction Workforce: A First Step for Improving Safety and Productivity Management." *2010 ISARC Conference*, June 25-27, 2010, Bratislava, SK.
13. Cordova, A., "Data Quality Assessment & Improvement Framework (DQAIF) for Manual Pavement Distress Surveys." *2010 Construction Industry Institute Annual Conference*, August 3-5, 2010, CII, Orlando, FL.
14. Gatti, U., "Measuring and Evaluating Physical Strain in Construction Workforce." *2010 ASSE New Mexico Conference*, April 15, 2010, ASSE, Albuquerque, NM.
15. Martinez R.M., "Collaborative Environment through the Use of Intergovernmental Networks." *TRB 89th Annual Meeting*, January 10-14, 2010, TRB, Washington, DC.
16. Martinez R.M., "Best Practices for Communication, Coordination and Cooperation between Tribal Communities and Transportation Agencies." *2009 Navajo DOT Conference*, October 27-29, 2009, Mesa, AZ. Martinez R.M., "Establishing a Collaborative Environment among Project Stakeholders." *2009 Construction Industry Institute Annual Conference*, July 29-30, 2009, CII, Reno, NV.
17. Martinez A.A., "Assessment of Methods for Adjusting Construction Cost Estimates by Project Location." *2009 Construction Industry Institute Annual Conference*, July 29-30, 2009, CII, Reno, NV.
18. Martinez, A.A., "Adjusting Construction Cost Estimates by Geographical Location." *2009 AACE International Annual Meeting* (CD), Association for the Advancement of Cost Engineering (AACE), June 28 – July 1, 2009, AACE, Seattle, WS.
19. Martinez, R.M., "A Review of Public Involvement Strategies between Transportation Agencies and Native American Tribal Communities." *Transportation Research Board 88th Annual Meeting* (CD), January 11-15, 2009, TRB, Washington, DC.
20. Martinez, R.M., "A Review of Public Involvement Strategies between Transportation Agencies and Native American Tribal Communities." *Forty-sixth Paving and Transportation Conference*, January 5-6, 2009, ATRI, Albuquerque, NM.

K. INTERNATIONAL, NATIONAL, UNIVERSITY SERVICE

University and Departmental Committees

University of Washington

- CM Department, Chair, Search Committee for Full-Time Lecturer, Autumn 2019, Spring 2020.
- CM Department, Chair, Search Committee for CM Academic Advisor, Autumn 2019.
- CM Department, Chair, Search Committee for CERC Program Operation Specialist, Spring 2018.
- CM Department, Member, Search Committee for CERC Program Operation Specialist, Autumn 2017.
- CM Department, Master Graduate Committee, September 2013-August 2019.
- CM Department, Member, CERC Annual Conference Organizing Committee, 2011-2018; as CERC director, I now lead the organization's efforts.
- CM Department, CERC Steering Committee, Spring 2015-2017.
- CM Department, Bachelor Curriculum Committee, 2013.
- CM Department, Lead, Construction Materials and Methods Lab, 2010-14
- CM Department, Member, Undergraduate Admissions Committee, 2011-14
- CM Department, Chair, Construction Industry Advisory Council, Industry Trends/Research Subcommittee, 2012-2014
- CM Department, Chair, Construction Industry Advisory Council, Membership Subcommittee, 2014-15
- Civil and Environmental Engineering Department, Search Committee for Construction Engineering Faculty, 2012-13
- Architecture Department, Search Committee for Structure Faculty, 2012-13
- College of Built Environments, Advisory Review Committee on the Chair of the Department of Urban Design and Planning, 2019
- College of Built Environments, Search Committee for Runstad Center Director, 2015-16
- College of Built Environment, Ph.D. Committee doctoral application reviewer, 2011-19
- College of Built Environment, Member, Committee on Architecture Hall Coffee Shop Renovation, 2018
- College of Built Environment, Member, Committee on Gould Hall Renovation, 2011
- College of Built Environment, Facilitator, Taskforce on Curriculum Efficiency – Building Technology, 2012
- College of Built Environments, Interdisciplinary Group in Real Estate (IGRE), 2014-2016
- College of Built Environments, Ph.D. Steering Committee, 2014-2019
- Campus-wide, Faculty Council on University Facilities and Services, 2014-Present

University of New Mexico

- Campus Development Advisory Committee, 2009-10
- Civil Engineering Department, Outreach Committee, 2009-10
- Civil Engineering Department, Equipment Committee, 2007-10
- Civil Engineering Department, Search Committee for Construction Lecturer, 2009

Editorial Boards:

- Specialty Editor in Contracting and Project Delivery Systems, Editorial Board of the *ASCE Journal of Construction Engineering and Management*, 2009–present
- Guest Editor, Special Issue on Public–private partnerships, *Built Environment Project and Asset Management*, Vol. 9, Issue: 2, 2019

Member of National/International Panels:

- Member, *Panel G17-49, Guide for Effective Tribal Crash Reporting*, National Cooperative Highway Research Program, Transportation Research Board, 2011-present
- Member, *Panel SHRP 2 R11, Strategic Approaches at the Corridor and Network Levels to Minimize Disruption from the Renewal Process*, Strategic Highway Research Program, Transportation Research Board, 2008-09

Reviewer for Journals, and Publishers:

- Reviewer, *Journal of Civil Engineering and Management*, 2013-present
- Reviewer, *Built Environment Project and Asset Management Journal*, 2011-present
- Reviewer, *Public Works, Management and Policy Journal*, 2009-present
- Reviewer, *ASCE Publishing*, 2009
- Reviewer, *ASCE Journal of Construction Engineering and Management*, 2008-present
- Reviewer, *Construction Management and Economics Journal*, 2008-present
- Reviewer, *ASCE Journal of Engineering Management*, 2007-present
- Reviewer, *ASCE Journal of Architectural Engineering*, 2007-2008
- Reviewer, *Automation in Construction*, 2013-present

Reviewer for Funding Agencies:

- Reviewer, *National Science Foundation*
- Reviewer, *Transportation Research Board*
- Reviewer, *Dean of Scientific Research at King Fahd University of Petroleum & Minerals*, 2009, 2015

Member of Technical Committee and/or Reviewer for Conferences:

- Co-chair, Technical Track on Project Delivery, Contracting and Legal Issues, *ASCE 2020 Construction Research Congress*, 2020, Tempe, AZ
- Chair, Technical track on Contracting and Legal Issues, *ASCE 2014 Construction Research Congress*, May 19-21, 2014, Atlanta, GA
- Member of Technical Committee, *2013 Sustainable Building & Construction Conference*, July 3-5, 2013, Coventry, UK
- Member of Organizing Committee, *2013 Construction Industry Research Conference*, April 19, 2013, Seattle, WA
- Reviewer, *ASCE 2012 Construction Research Congress*, May 21-23, 2012, West Lafayette, IN
- Member of Organizing Committee, *2011 Construction Industry Research Conference*, November 4, 2011, Seattle, WA
- Member of Scientific Committee, *The International Conference on Sustainable Systems and the Environment*, March 23-24, 2011, Sharjah, EUA
- Member of Scientific Committee, *ASCE 2011 International Conference in Sustainable Design and Construction*, March 23-25, 2011, Kansas City, KS
- Reviewer, *ASCE 2011 Construction Research Congress*, June 14-17, 2011, Banff, Alberta, Canada
- Member of Scientific Committee, *Second Annual International Conference on Engineering Systems Management & Applications (ICESMA)*, March 30-April 1, 2010, Sharjah, EUA
- Reviewer, *ASC 46th Annual International Conference* held in conjunction with the *CIB Workgroup 89*, April 7-10, 2010, Boston, MA
- Reviewer, *ASCE 2010 Construction Research Congress*, April 5-7, 2010, Seattle, WA

Member of Professional and Industry Committees:

- Member of Construction Industry Institute Academic Committee, 2009-present
- Member and Committee Research Coordinator of Transportation Research Board ABE80 Native American Transportation Issues Committee, 2009-present
- Member of TRB AFH15 Project Delivery Methods Committee, 2011-present
- Member of Board of Trustees of Construction Industry Training Council of Washington, 2012-16

Member of Professional and Academic Societies:

- Registered member of Italian professional Board of Engineers, 2000-present
- Member of American Society of Civil Engineers (ASCE), 2006-present
- Member of the Tacoma-Olympia section of ASCE, 2016-present
- Member of ASCE Architectural Engineering Institute (AEI), 2006-2011
- Member of ASCE Construction Institute, 2006-2011
- Member of Construction Research Council, 2007-present
- Member of ASCE Northern New Mexico Branch, 2008-2010
- Full member of Sigma Xi Honor Society, 2008-2009
- Affiliated of the Italian Scientists and Scholars of North America Foundation, 2008-present
- Member of Associated Schools of Construction (ASC), 2009-present

Academic/Professional Event Organizer:

- *Workshop at 2013 TRB Annual Meeting on Fast Tracking Mega Projects*, January 2013, Washington, DC.
- *Panel Session at 2012 TRB Annual Meeting on Alternative Technical Concepts in DB Projects*, January 2012, Washington, DC.
- *Panel Session at 2011 TRB Annual Meeting on Public Involvement during Construction*, January 2011, Washington, DC.
- *Panel Session at NW Transportation Conference*, February 10, 2010, Corvallis, OR.
- *Panel Session at Design-Build Institute of America (DBIA) Transportation Annual Conference*, April 17, 2008, Louisville, KY.

Participation in Student-led Societies, Clubs and Associations:

- Association Students in Construction, CM Department, Coach of Student Team for ASC Reno competition, 2013-2015
- Association Students in Construction, CM Department, Coach of Student Team for DBIA competition, 2014-2016