

PRAMEN P. SHRESTHA, PH.D., P. E., F. ASCE

Department Chair and Professor
Civil & Environmental Engineering and Construction (CEEC)



CONTACT INFORMATION:

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EDUCATION:

Ph.D. in Civil Engineering, The University of Texas at Austin, TX, 2007, GPA 3.9/4.0

M.Sc. in Civil Engineering, Oklahoma State University, OK, 2003, GPA 4.0/4.0

B.Sc. in Civil Engineering, National Institute of Technology, India, GPA 4.0/4.0

ACADEMIC EXPERIENCE

Department Chair and Professor, CEEC Department: Starts July 1, 2023

Professor and Graduate Coordinator, CEEC Department: August 2019 – January. 2023- Oversaw PhD in Civil Engineering, MS in Civil Engineering, and MS in Construction Management

Associate Professor, CEEC Department: August 2013 – July 2019

Assistant Professor, CEEC Department: August 2007 – July 2013

LEADERSHIP ROLE AND TRAINING

Graduate Coordinator, CEEC Department: 2019 to 2022

UNLV President Fellow: 2022/23

UNLV Leadership Experience Program: 2021/22

UNLV Management Academy Training (MTA): 2021/22

FUNDED PROPOSALS: (\$2.60 million)

Funding Agency: Governor Office for Economic Development, NV

1. “Southern Nevada Region, Regional Industrial Study.” **Co-PI**, Funding Amount \$205,000: September 2022 – December 2023

Funding Agency: Airport Cooperative Research Program (ACRP), TRB, D.C.

2. ACRP 09-20, “Quantifying the Impacts of Delayed Maintenance of Airport Assets.” **PI**, Funding Amount \$299,705: December 2020 – July 2022

Funding Agency: National Housing Endowment: NAHB

3. HELP Grant for starting Certificate Program in Residential Construction Management, **PI**, Funding Amount \$100,000: November 2019 – December 2022.

Funding Agency: National Science Foundation (NSF)

4. “An Investigation of Construction Workforce and Education Inequalities and Biases in Construction/Civil/Architectural Engineering.” **Co-PI**, Funding Amount \$49,987: July 2017 – August 2019

Funding Agency: Airport Cooperative Research Program (ACRP), TRB, D.C.

5. “Legal Issues Relating to Large Scale Airport Construction Projects.” **PI**, Funding Amount \$75,000: October 2017 – October 2018

Funding Agency: AROMOROCK LLC, Boulder City, NV

6. “Life-Cycle Cost Benefit Analysis: Comparing Portland Concrete and Polymer Concrete Manholes in Sewer Systems.” **PI**, Funding Amount \$52,478, January 2017 to January 2018.

Funding Agency: US Department of Energy (DOE), D.C.

7. “Design and Construction of Zero-energy Building.” Solar Decathlon 2013, **Co-PI**, Funding Amount: \$100,000, January 2011 to December 2013.

Funding Agency: US Department of Labor. OSHA, D.C.

8. “Fall Prevention Training for Southern Nevada Construction Workers,” **Co-PI**, Funding Amount: \$288, 314, October 2009 to September 2011.

Funding Agency: Water Design Build Council (WDBC), MD

9. “In-Depth Interviews of Lessons Learned Using Design-Build, Design-Build-Operate, and Construction Management at Risk Delivery Methods in Water and Wastewater Infrastructures.” **PI**, Funding Amount: \$77,235, September 2014 to August 2015.
10. “Impediments to using DB and CMAR Project Delivery Methods in Water and Wastewater Projects.” **PI**, Funding Amount: \$28,454, August 2013 to January 2014.
11. “Effectiveness Study of Alternative Project Delivery Methods in Water and Wastewater Projects.” **PI**, Funding Amount: \$74,440, July 2012 to January 2013.

Funding Agency: Nevada Department of Transportation, Carson City, NV

12. “Self-Consolidating Concrete (SCC) for Precast Pre-stressed Bridge Girders” **Co-PI**, Funding Amount: \$86,903, September 2015 to September 2016.
13. “Enhancing the Stability of Underwater (Self-Consolidating) Concrete for Drilled Shafts.” **Co-PI**, Funding Amount: \$84,858, July 2012 to May 2015.

14. “Investigation of Innovative Contracting Method: Performance-Based Maintenance Contract –Phase I.” **PI**, Funding Amount: \$125,433, July 2012 to August 2014.
15. “Preparing Guidelines for Speed Reduction in Towns along Rural Highways.” Nevada Department of Transportation, **PI**, Funding Amount: \$106,201, July 2011 to June 2013.

Funding Agency: Missouri University of Science and Technology Transportation Center, Rolla, MI

16. “Investigation of behavior and durability of consolidating concrete” Missouri University of Science and Technology Transportation Center, **Co-PI**, Funding Amount: \$32,238, January 2013 to May 2014.
17. “Life Cycle Cost Analysis of RC Columns Rehabilitation Techniques under Various Durability Exposures.” **PI**, Funding Amount: \$37,148, January 2013 to January 2014.

Funding Agency: University Transportation Center, US DOT

18. “Community Transit Service at the University of Nevada, Las Vegas,” **PI**, Funding Amount: \$60,500, June 2014 to December 2015.
19. “Investigation of Cost Effectiveness and Effect of Chemical Stripe Removal Methods on Pavement.” **PI**, Amount: \$31,300, January 2014 – June 2014.
20. “Cost Effectiveness and Efficiency Measurement of Innovative CO2 LASER-based Pavement Striping and Stripe Removal” **Co-PI**, Amount: \$75,000, August 2013 – June 2014
21. “Economic Assessment of the Ability of a “Land Ferry” System to Alleviate Increasing Costs of Maintaining the I-80 Transportation Corridor.” **Co-PI**, Amount: \$75,000, August 2013 – June 2014

Funding Agency: University of Nevada Las Vegas Internal Funding

22. “Performance and Economic Analysis of Nano-Engineered Concrete under Combined Environmental and Structural Loading.” **PI**, 3 year Ph.D. student funding from UNLV-DGRA equivalent to \$75,000, August 2014 to May 2017.
23. “To enhance the Performance Based-Maintenance Contract research.” One year Ph.D. level GA funding from Howard R. Hughes College of Engineering, **PI**, Funding Amount Equivalent: \$30,000, September 1, 2013 to May 30, 2014.
24. “Developing the algorithms to determine the use of safety equipment by workers in construction sites by analyzing the real time image,” **PI**, Ph.D. student funding for 3 years- equivalent to \$75,000, UNLV-SPGRA, Fall 2010 to Spring 2013.
25. “Evaluating the Energy Footprint of Water Management Options in the Las Vegas Valley,” **Co-PI**, Funding Amount: \$49,957, Funding Agency: URBAN 21, Funding Duration: September 2009 to December 2010.

Funding Agency: Nevada Commission of Construction Education

26. “To Enhance the Construction Education Program of UNLV by constructing the Zero Energy Home for Solar Decathlon Competition 2013.” **PI**, Funding Amount: \$40,837, January 2013 to January 2014.
27. Establishment of Construction Engineering Management Computer Laboratory, Funding Amount: \$60,000, September – December 2009.

REFERRED ARCHIVAL JOURNAL PUBLICATIONS:

Under Review

[61] **Shrestha, P. P.** and Neupane, K. P. *Effect of Geotechnical-related Problems on Highway Construction Project Performance*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, March 2023

[60] **Shrestha, P. P.,** and Prajapati, E. *Correlation between Design Cost and Cost and Schedule Growth of Highway Projects*. **Journal of Construction Engineering and Management**, ASCE, March 2023

[59] Shrestha, P.P. and Batista, J. *Life-cycle Cost Analysis of Concrete and Polymer Water and Wastewater Public Projects*. **Journal of Construction Engineering and Management**, ASCE, February 2023

[58] **Shrestha, P. P.** and Srirangan, D. *Correlating Liquidated Damage Rates with Project Performance of Highway Projects*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, January 2023

Published - 2023

[57] Shrestha, K. K., **Shrestha, P. P.,** and Lohoud, M. *Critical Factors Affecting the Estimated Bid Cost of Building Projects*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 15 (3), <https://ascelibrary.org/doi/10.1061/JLADAH.LADR-960>, 2023

[56] Fathi, M., and **Shrestha, P. P.** *Public-Private Partnership Highway Projects: Identification of Project Selection Factors* **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 15 (1), <https://ascelibrary.org/doi/10.1061/JLADAH.LADR-894> 2023.

[55] Fathi, M., and **Shrestha, P. P.** *Identification of Critical Success and Risk Factors for Public-Private Partnership Highway Projects*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 15 (1), <https://ascelibrary.org/doi/10.1061/%28ASCE%29LA.1943-4170.0000587> 2023.

[54] Fathi, M., and **Shrestha, P. P.** *Contract Framework Development for US Public-Private Partnership Highway Projects: A Delphi Approach*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 15 (1), <https://ascelibrary.org/doi/10.1061/%28ASCE%29LA.1943-4170.0000575> 2023.

Published - 2022

[53] Fathi, M., and **Shrestha, P. P.** *Public-Private Partnership Project Performance Analysis Compared Design Build in Highway Projects*. **Journal of Construction Engineering and Management**, ASCE, [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0002391](https://doi.org/10.1061/(ASCE)CO.1943-7862.0002391) 2022.

[52] Shakya, S., **Shrestha, P. P.** and Karakouzian, M. *Correlating Disadvantage Business Enterprises Participation with Highway Project Performances*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000557](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000557), November 2022.

[51] Shakya, S., **Shrestha, P. P.** and Srirangan, D. *Impact of Mobilization Costs on Schedule Performance of Highway Projects*. **Journal of Engineering, Construction, and Architectural Management**, Emerald Publishing, <https://doi.org/10.1108/ECAM-10-2021-0852> 2022.

[50] Brogan, E., Shrestha, B., Clevenger, C. M., and **Shrestha, P.P.** *State Transportation Agencies' Current Practices in Providing Design Information of Design-Build Projects During Procurement*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000521](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000521) 2022.

[49] Shrestha, B., **Shrestha, P. P.**, Maharjan, R., and Gransberg, D. *Cost, Schedule, and Change Orders Performance of Highway Projects*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000523](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000523) 2022.

[48] Shrestha, K. K. and **Shrestha, P. P.** *Framework to Implement Performance-Based Contracting for Chip-Seal Road Maintenance*. **Journal of Construction Engineering and Management**, ASCE, 148 (1), [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0002207](https://doi.org/10.1061/(ASCE)CO.1943-7862.0002207) 2022.

2021

[47] Assaad, R. H., Ahmed, M. O., El-adaway, I. H., and **Shrestha, P. P.** *Management of Change Orders in Infrastructure Transportation Projects*. **Journal of Practice Periodical on Structural Design and Construction**, ASCE, 27 (1), [https://doi.org/10.1061/\(ASCE\)SC.1943-5576.0000640](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000640) 2021.

[46] Shrestha, P.P. and Batista, J. *[Transition from Traditional Delivery Method to Alternative Project Delivery Methods in Water & Wastewater Project: A Decision Makers Perspective](#)*. **Journal of Engineering, Construction, and Architectural Management**, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/ECAM-10-2020-0791> 2021.

[45] Fathi, M., and Shrestha, P. P. *[Funding and Finance Analysis of the U.S. Public-Private Partnership Highway Projects](#)*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000477](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000477) 2021.

2020

[44] Shrestha, P. P., Davis, B., and Gad, G. M., *[Investigation of Legal Issues in Construction Manager-at-Risk Projects: A Case Study of Airport Projects](#)*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 12 (3), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000404](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000404), 2020.

[43] Kisi, K.P., Kayastha, R., and Shrestha, P. P. *[Back Charges in Airport Construction Project: Investigation of Contract Clauses through Content Analysis](#)*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 12 (3), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000392](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000392), 2020.

[42] Choi, J., Nikkhah Manesh, S., Shrestha, B.K., Lim, J., Shrestha, P.P., *[Spatial Analysis of the Gender Wage Gap in Architecture, Civil Engineering and Construction Occupations in the United States](#)*. **Journal of Management in Engineering**, ASCE, 36 (2), [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000780](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000780), 2020.

[41] Choi, J., Shrestha, B.K., Shrestha, P.P., Lim, J., Nikkhah Manesh, S. *[Employment and Wage Distribution Investigation in the Construction Industry by Gender](#)*. **Journal of Management in Engineering**, ASCE, 36 (4), <https://ascelibrary.org/doi/10.1061/%28ASCE%29ME.1943-5479.0000778>, 2020.

[40] Shrestha, K. K. and Shrestha, P. P. *[Framework Development of Performance-Based Striping Maintenance Contract](#)*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 12 (2), <https://ascelibrary.org/doi/10.1061/%28ASCE%29LA.1943-4170.0000385>, 2020.

[39] Shrestha, P. P., and Neupane, K.P. *[Identification of Geotechnical-related Problems Impacting Cost, Schedule, and Claims on Bridge Construction Projects](#)*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 12 (2), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000375](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000375) , 2020.

[38] Shrestha, P. P., and Batista, J. M. *[Lessons Learned in Design-Build and Construction Manager-at-Risk Water & Wastewater Project](#)*. **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 12 (2), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000376](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000376), 2020.

[37] Gad, G. M., Davis, B., **Shrestha, P. P.**, and Fathi, M. *[Legal and Contractual Issues in Lump Sum Large Design-Build Implementation on Large-Scale Airport Projects.](#)* **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 12 (1), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000364](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000364), 2020

[36] Fathi, M., **Shrestha, P. P.**, and Shakya, B. *[Change Orders and Schedule Performance of DB Infrastructure Projects: Comparison between Highway and Water and Wastewater Projects.](#)* **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 12 (1), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000353](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000353), 2020

2019

[35] **Shrestha, P.P.** and Maharjan, R. *[Effect of Change Orders on Cost and Schedule for Small Low-Bid Highway Contracts.](#)* **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 11 (4), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000323](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000323), 2019.

[34] Gad, G. M., Davis, B., **Shrestha, P. P.**, and Harder, P. *Lessons Learned from Progressive Design-Build Implementation on Major Airport Projects.* **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 11 (4), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000320](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000320), 2019.

[33] **Shrestha, P. P.**, and Fathi, M. *The Impacts of Change Orders on Cost and Schedule Performance and the Correlation with Project Size of DB Building Projects.* **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 11 (3), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000311](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000311), 2019.

[32] Shrestha, K. K. and **Shrestha, P. P.** *[Change Orders on Road Maintenance Contracts: Causes and Preventative Measures.](#)* **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 11 (3), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000299](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000299), 2019.

[31] **Shrestha, P. P.**, Shrestha, K., and Zeleke, H. *[Probability of Change Orders and the Effect on Cost and Schedule for New School Buildings.](#)* **Journal of Engineering, Construction, and Architectural Management**, 26 (2), 1087-1104, 2019.

[30] Shrestha, K., **Shrestha, P. P.**, and Lidder, M. *[Life-cycle Cost Comparison of Chip Seal and Striping: In-House Workers versus Private Contractors.](#)* **Journal of Engineering, Construction, and Architectural Management**, 26 (2), 927-944, 2019.

2018

[29] **Shrestha, P. P.**, Maharjan, R., and Batista, J.M. *[Performance of Design-Build and Construction Manager-at-Risk Methods in Water and Wastewater Projects.](#)* **Journal of Practice Periodical on Structural Design and Construction**, ASCE, 24 (1), 04018029-1 -11, February 2019.

[28] Shrestha P.P., Shrestha, K., and Becerra, E. *[Types and Factors affecting Injury Rates of Mechanical Contractors](#)*, **Work: A Journal of Prevention, Assessment, and Rehabilitation**, 61 (1), September 2018.

[27] Shrestha P.P. and Zeleke, H.B. *[Effect of Change Orders on Cost and Schedule Overruns of School Building Renovation Projects](#)*, **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 10 (4), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000271](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000271), 04518012 (1-10), 2018. Online published: June 21, 2018.

[26] Shrestha, P.P. and Maharjan, R., *[Effect of Change Orders on Cost Growth, Schedule Growth, and Construction Intensity of Large Highway Projects](#)*, **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, 10 (3), [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000264](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000264), 04518012 (1-9), 2018. Online published: May 29, 2018.

2017

[25] Shrestha, P.P., Shrestha, K., and Lidder, M., *[Quality of Road Maintenance Works Performed by State Force versus Private Contractors in Nevada](#)*, **Journal of Practice Periodical on Structural Design and Construction**, ASCE, 22(4), [10.1061/\(ASCE\)SC.1943-5576.0000326](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000326), 04017012 (1-8), 2017.

[24] Shrestha, K., Shrestha, P.P., and Shrestha, G., *[Carbon Dioxide Emissions by the Transportation Sector and its Impact on Health in the Kathmandu Valley, Nepal](#)*, **Journal of Civil Engineering and Architecture**, doi: 10.17265/1934-7359/2017.02.009, 111 (2017), 184-193.

[23] Shrestha, P., Shrestha, K., and Kandie, T. K. *[Effects of Change Orders on the Cost and Schedule of Rural Road Maintenance Projects](#)*, **Journal of Legal Affairs and Dispute Resolution in Engineering and Construction**, ASCE, [10.1061/\(ASCE\)LA.1943-4170.0000227](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000227), 9 (3), 04517010 (1-7), April 13, 2017. (*[Selected as one of the best articles presented during LADR Workshop during Construction Institute Summit, 2017](#)*)

[22] Shrestha P.P. and Fernane, J. *[Performance of Design-Build and Design-Bid-Build Projects for Public Universities](#)*, **Journal of Construction Engineering and Management**, ASCE, [10.1061/\(ASCE\)CO.1943-7862.0001241](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001241) , 143 (3), 2017.

[21] Shrestha, P. P. and Shrestha, J. K. *[Factors Associated with Crash Severities in Built-up Areas along Rural Highways of Nevada: A Case Study of 11 Towns](#)* **Journal of Traffic and Transportation Engineering**, Elsevier, [10.1016/j.jtte.2016.08.003](https://doi.org/10.1016/j.jtte.2016.08.003) , 4 (1), 96-102, 2017.

[20] **Shrestha, P.P.**, Shrestha, K, Said, A., and Lidder, M., [*Factors Affecting the Selection of In-House and Outsourcing Road-Maintenance Methods and Assessment of their Benefits*](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000315), **Journal of Infrastructure Systems**, ASCE, [https://doi.org/10.1061/\(ASCE\)IS.1943-555X.0000315](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000315), 23 (1), March, 2017.

2016

[19] Shrestha K. J. and **Shrestha P.P.**, [*Comprehensive Framework of Speed-Zone Guidelines*](https://doi.org/10.1016/j.jtte.2015.09.008), **Journal of Traffic and Transportation Engineering**, Elsevier, [10.1016/j.jtte.2015.09.008](https://doi.org/10.1016/j.jtte.2015.09.008), 3 (4), pp 352-363, 2016.

[18] **Shrestha, P.P.**, Maharjan, R., Batista, J.M., and Shakya, B. [*Comparison of Utility Managers' and Project Managers' Satisfaction Rating of Alternative Project Delivery Methods used in Water and Wastewater Infrastructures*](https://doi.org/10.1016/j.jpubw.2016.07.001). **Journal of Public Works Management & Policy**, 21 (3), 263-279, July, 2016.

[17] Merrill, S. J., Paz, A. Molano, V., **Shrestha, P.P.**, Maheshwari, P., Stephen, H., and Hanns de la Fuente-Mella, [*The Feasibility of a Land Ferry System to reduce Highway Maintenance Cost and Associated Externalities*](https://doi.org/10.1155/2016/8180232), **The Scientific Work Journal**, Volume 2016, ID 8180232, [10.1155/2016/8180232](https://doi.org/10.1155/2016/8180232), June, 2016.

[16] **Shrestha, P.** Sharma, R., Mosses, K., and Singh, A., [*Comparing Performance and Impediments of Construction and Professional Disadvantaged Business Enterprises in Transportation*](https://doi.org/10.1061/(ASCE)EL.1943-5541.0000267), **Journal of Professional Issues in Engineering Education and Practice**, ASCE, [10.1061/\(ASCE\)EL.1943-5541.0000267](https://doi.org/10.1061/(ASCE)EL.1943-5541.0000267), 10.1061/(ASCE)EL.1943-5541.0000267, 142 (2), 04015012 (1-9), April, 2016.

2015

[15] Shrestha, K., **Shrestha, P. P.**, Bajracharya, D., and Yfantis, E. A., [*Hard-Hat Detection for Construction Safety Visualization*](https://doi.org/10.1155/2015/721380), **Journal of Construction Engineering**, Volume 2015, [10.1155/2015/721380](https://doi.org/10.1155/2015/721380), 8 pages.

2014

[14] **Shrestha, P.P.** and Mani, N. [*Relationship of Mathematics and Physics Grade Point Average with Construction Science Grade Point Average*](https://doi.org/10.1080/08903065.2014.941244). **Engineering Sciences International Research Journal**, 2(1), 2014, ISBN 978-93-84124-04-5, pp 8-14

[13] **Shrestha, P.P.**, Pradhananga, N., and Mani, N., [*Correlating Quantity and Bid Cost of Unit Price Items of Public Road Projects*](https://doi.org/10.1007/s12205-014-0445-y), **Journal of Civil Engineering**, KSCE, doi: 10.1007/s12205-014-0445-y, 18(6), September 2014, pp. 1590-1598.

[12] **Shrestha, P.P.** and Menzel, N.N., [*Hispanic Construction Workers and Assertiveness Training Work: A Journal of Prevention, Assessment, and Rehabilitation*](https://doi.org/10.3233/WOR-13728), [10.3233/WOR-13728](https://doi.org/10.3233/WOR-13728), 49 (3), pp. 517-522, 2014.

[11] Shrestha, P. P. and Mani, N., [*Impact of Design Cost on Construction Cost and Schedule Performance of Public Road Projects*](#), **Journal of Management in Engineering**, ASCE, [10.1061/9780784412329.158](#), DOI:10.1061/(ASCE)ME.1943-5479, 30 (3), May, 2014, pp. 04014007:1-8.

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[10] Shrestha, P. P., Burns, Leslie, and Shields, D. R., [*Magnitude of Construction Cost and Schedule Overruns in Public Projects*](#), **Journal of Construction Engineering**, Vol. 2013, [10.1155/2013/935978](#), 9 pages, 2013, doi:10.1155/2013/935978.

[9] Shrestha, P. P. and Kulkarni, P., [*Factors Influencing Energy Consumption of Energy Star and Non-Energy Star Homes*](#), **Journal of Management in Engineering**, ASCE, [10.1061/\(ASCE\)ME.1943-5479.0000134](#), 29(3), July 2013, pp. 269-278.

2012

[8] Menzel, N. N. and Shrestha, P. P., [*Using Social Marketing to Recruit Latino for Fall Prevention Training*](#), **American Journal of Industrial Medicine**, [10.1002/ajim.22038](#), 55, 2012, pp 729-735.

[7] Shrestha, P. P., O'Connor, J. T., and Gibson Jr., E. G., [*Performance Comparison of Large Design Build and Design Bid Build Highway Projects*](#), **Journal of Construction Engineering Management**, ASCE, [10.1061/\(ASCE\)CO.1943-7862.0000390](#), 138(1), January, 2012, pp 1-13.

2011

[6] Shrestha, P. P., Shields, D.R., Oparagua, D., and Pradhananga, N., *Comparative Study of Information Technology Use by Architects, Engineers, and Contractors*, **Journal of Civil Engineering and Architecture**, 5 (5), 2011, ISSN 1934-7359, pp 375-388.

[5] Shrestha, E., Ahmad, S., Johnson, W., Shrestha, P. P., and Batista, J. R. [*Carbon Footprint of Water Conveyance versus Desalination as Alternatives to Expand Water Supply*](#), **Journal of Desalination**, [10.1016/j.desal.2011.06.062](#), 280(1), Elsevier, pp. 33-43, October 2011.

2010

[4] Shrestha, P. P. and Pradhananga, N., [*Correlating Bid Price with Number of Bidders and Final Construction Cost of Public Street Projects*](#), **Journal of Transportation Research Record**, TRR, Transportation Research Board of the National Academies, [10.3141/2151-01](#), No. 2151, pp 3-10, 2010.

2009

[3] Hale, D.R., Shrestha, P. P., Gibson, G.E., and Migliaccio G.C., [*Empirical Comparison of Design-Build and Design-Bid-Build Project Delivery Methods*](#), **Journal of Construction Engineering and Management**, ASCE, [10.1061/\(ASCE\)CO.1943-7862.0000017](#), 135(7), pp 579-587, July 2009.

2007 and before

[2] **Shrestha, P. P.**, Migliaccio, G. C., O'Connor, J. T., and Gibson, G. E. [Benchmarking of Large Design-Build Highway Projects: One-to-One Comparison and Comparison with Design-Bid-Build Projects](#), **Journal of the Transportation Research Board**, TRR, Transportation Research Board of the National Academies, [10.3141/1994-03](#), No.1994/2007, pp 17-25, 2007.

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- [2] O'Connor, J.T., Gibson, G.E., Migliaccio, G.C, and **Shrestha, P. P.**, [Organizational Structures and Communications on the SH130 Project](#), Report 0-4661-P3 to Texas Department of Transportation, CTR, Austin, TX, March 2006, pp. 12

[1] Cross, S. A., and **Shrestha, P. P.**, [*Guidelines for Using Prime and Tack Coats*](#), Department of Civil and Environmental Engineering, Oklahoma State University, Publication No. FHWA-CFL-04-001, Submitted July 2004.

PAPER PRESENTATIONS:

As a Keynote Speaker

[38] “Relationship of Mathematics and Physics Grade Point Average with Construction Science Grade Point Average.” *International Conference on Mathematics & Engineering Sciences Proceedings*, Chandigarh, India, March 20-22, 2014

Regular Presentation

[44] “Investigation of Legal Issues in Construction Manager-at-Risk Projects: A Case Study of Airport Projects.” *Legal Affairs and Dispute Resolution in Engineering and Construction Workshop, Construction Summit, ASCE*, Los Angeles, CA, February 22, 2020.

[43] “Lessons Learned in Design-Build and Construction Manager-at-Risk Water & Wastewater Project.” *Legal Affairs and Dispute Resolution in Engineering and Construction Workshop, Construction Summit, ASCE*, Los Angeles, CA, February 21, 2020.

[42] “Identification of Geotechnical-related Problems Impacting Cost, Schedule, and Claims on Bridge Construction Projects.” *Legal Affairs and Dispute Resolution in Engineering and Construction Workshop, Construction Summit, ASCE*, Los Angeles, CA, February 21, 2020.

[41] “Change Orders and the Effects on Cost and Schedule for Small Low-Bid Highway Contracts.” *Legal Affairs and Dispute Resolution in Engineering and Construction Workshop, ASCE, Construction Institute Summit*, Atlanta, GA, March 9, 2019.

[40] “The Impacts of Change Orders on Cost and Schedule Performance and the Correlation with Project Size of DB Building Projects.” *Legal Affairs and Dispute Resolution in Engineering and Construction Workshop, ASCE, Construction Institute Summit*, Atlanta, GA, March 8, 2019.

[39] “Change Orders on Road Maintenance Contracts: Causes and Preventative Measures.” *Legal Affairs and Dispute Resolution in Engineering and Construction Workshop, ASCE, Construction Institute Summit*, Atlanta, GA, March 8, 2019.

[38] “Lessons Learned from Progressive Design-Build Implementation on Major Airport Projects.” *Proceedings of 98th Transportation Research Board (TRB) Annual Meeting*, Washington, D.C., January 13, 2019.

- [37] “Performance Comparison of Design-Build Projects for Highways and Buildings.” *ASCE Construction Research Congress Conference Proceedings*, pp 139-149, Baton Rouge, LA, April 4, 2018.
- [36] “Maintenance Practices for Chloride-Induced Corrosion in Reinforced-Concrete Bridge-Pier Columns.” *ASCE Construction Research Congress Conference Proceedings*, pp 281-290, Baton Rouge, LA, April 4, 2018.
- [35] “Contributing Factors to the Punch-List Problem: A Case Study from a High-Rise Tower Project in Southern Nevada.” *ASCE Construction Research Congress Conference Proceedings*, pp 326-335, Baton Rouge, LA, April 3, 2018.
- [34] “Relationship between Project Performance and Contract Procurement Factors in Design-Bid-Build Highway Projects.” *ASCE Construction Research Congress Conference*, pp 150-160, Baton Rouge, LA, April 3, 2018.
- [33] “Effect of Change Orders on Cost and Schedule Overruns of School Building Renovation Projects” *LADR paper presentation in Construction Institute Summit, ASCE*, Dallas Fort Worth, TX, March 1-3, 2018.
- [32] “Effect of Change Orders with Cost Growth, Schedule Growth, and Construction Intensity of Large Highway Projects,” *LADR paper presentation in Construction Institute Summit, ASCE*, Dallas Fort Worth, TX, March 1-3, 2018.
- [31] “The Effects of Change Orders on the Cost and Schedule of Rural Road Maintenance Projects.” *Construction Institute Summit, Anaheim, CA*, March 2-5, 2017.
- [30] “University of Nevada Las Vegas Transit Service.” *Nevada Fall Transportation Conference, ITE*, Las Vegas, NV, October 13-14, 2016.
- [29] “Risks Involved in Using Alternative Project Delivery Methods in Water and Wastewater Projects.” *International Conference on Sustainable Design, Engineering, and Construction, ASCE*, Tempe, AZ, May 18-20, 2016
- [28] “A Contingency Cost Estimation System for Road Maintenance Contracts,” *International Conference on Sustainable Design, Engineering, and Construction, ASCE*, Tempe, AZ, May 18-20, 2016
- [27] “Energy Performance of Solar Home Constructed for Solar Decathlon Competition,” *International Conference on Sustainable Design, Engineering, and Construction, ASCE*, Tempe, AZ, May 18-20, 2016
- [26] “A Cost Investigation and Customer Satisfaction Survey of Culvert Cleaning and Sweeping Works in Nevada,” *ASCE Construction Research Congress (CRC) Conference Proceedings*, San Juan, Puerto Rico, May 31- June 2, 2016.

- [25] “Optimization of Project Scheduling Crashing,” *ASCE Construction Research Congress (CRC) Conference Proceedings*, San Juan, Puerto Rico, May 31- June 2, 2016.
- [24] “Impediments in Using Alternative Delivery Methods for Water and Wastewater Projects,” *ASCE Construction Research Congress (CRC) Conference Proceedings*, San Juan, Puerto Rico, May 31- June 2, 2016.
- [23] “Analysis of Occupational Injuries in the Mechanical Contracting Industry of Southern Nevada,” *Associate School of Construction 52nd Annual International Conference*, Provo, Utah, April 13-16, 2016.
- [22] “Performance of Design-Build versus Construction Manager/General Contractor For Highway Projects,” *Proceedings of 95th Transportation Research Board Annual Meeting*, Washington, D.C., January 10-13, 2016
- [21] “Framework Development of Speed Zone Guidelines based on Current Best Practices and Expert Opinions”, *94th Transportation Research Board Annual Meeting*, Washington, D.C., January 14, 2015
- [20] “Planning of University of Nevada Las Vegas Transit Service,” *American Planning Association Annual Meeting*, Las Vegas, NV, October 15, 2014.
- [19] “Framework Development of University of Nevada Las Vegas Transit Service,” *Fall 2014 Transportation Conference*, Las Vegas, NV, October 9, 2014.
- [18] “Alternative Project Delivery Methods for Water and Wastewater Projects: The Satisfaction Level of Owners.” *ASCE Construction Research Congress Conference*, Atlanta, May 19-21, 2014, pp. 1733-1742.
- [17] “Fall Prevention Training to Hispanic Construction Workers of Southern Nevada,” *The 47th ASC Annual International Conference*, Associated Schools of Construction, San Luis Obispo, CA, April 12, 2013.
- [16] 2012 Water Design Build Council Municipal Owners Survey, *Design Build Institute of America 2013 Water/Wastewater Conference*, March 21, 2013, Orlando, FL
- [15] “Impact of Design Cost on Design Bid Build Public Projects Performance,” *2012 ASCE Construction Research Congress*, West Lafayette, IN, May 22, 2012, pp. 1570-1579.
- [14] “Green and Non-Green School Buildings: An Empirical Comparison of Construction Cost and Schedule,” *2012 ASCE Construction Research Congress*, West Lafayette, IN, May 22, 2012, pp. 1820-1829.

- [13] “Fall Prevention Training to Hispanic Workers of Southern Nevada,” National Occupational Injury Research Symposium (NOIRS), October 18-20, 2011, Morgantown, WV.
- [12] “Fall Prevention Training and its Impact on Construction Workers” 2011 *International Council for Research and Innovation in Building and Construction (CIB)*, August 24-26, Washington D.C., June 24-26, 2011.
- [11] “Identifying Factors That Influence the High School Students’ Choices to Pursue Architecture, Construction and Engineering Baccalaureate Degree,” *The 2nd International Conference on Society and Information Technologies: ICSIT 2011*, Florida, March 29, 2011.
- [10] “Comparison of Energy Consumption of Green and Non-Green School Buildings,” *2011 ASCE International Conference on Sustainable Design and Construction (ICSDC)*, Kansas City, Missouri, March 24, 2011.
- [9] “Identifying Factors that Affect Energy Consumption of Residential Buildings,” *2010 ASCE Construction Research Congress*, Alberta, Canada, May 10, 2010.
- [8] “Correlating Bid Price with Number of Bidders and Final Construction Cost of Public Street Projects”, *89th Transportation Research Board Meeting*, Washington D.C., January 12, 2010
- [7] “Trend Analysis of Cost Performance for Public Work Projects,” *5th International Structural Engineering and Construction Conference*, Las Vegas, Nevada, September 25, 2009.
- [6] “GIS-based Road Maintenance Management,” *2009 ASCE International Conference on Computing in Civil Engineering*, Austin, Texas, June 24-27, 2009.
- [5] “Analysis of Design-Build Procurement Activities Durations”, *2009 ASCE Construction Research Congress*, Seattle, Washington, April 5-7, 2009
- [4] “Correlation between Physics, Math GPA and Construction Science Course Performance,” paper presented at *ASC 45th International Proceeding of Annual Conference*, Gainesville, Florida, April 3, 2009
- [3] “Effect of Design Cost on Highway Construction Performance,” Paper No. 61 presented at *1st International Conference on Transportation Construction Management*, Orland, FL, February 10, 2009
- [2] “Benchmarking of Design-Build against Design-Bid-Build Highway Projects” research findings presented to Independent Project Analysis (IPA), Ashburn, VA, February 6, 2007

[1] “Benchmarking of Large Design-Build Highway Projects: One-to-one Comparison and Comparison with Design-Bid-Build Projects”, Paper No. 07-1532 presented at 86th Transportation Research Board Meeting, Washington D.C., January 21-25, 2007

JOURNAL EDITOR/ CONFERENCE PAPER REVIEWER:

- Associate Editor, *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, ASCE, since October 2019 - Till
- Editorial Board Member, *Journal of Buildings*, MDPI, January 2023 - Till
- Chief Guest Editor, Special Collection on “Life Cycle Management of Building and Infrastructure Projects” *Journal of Buildings*, MDPI, 2022-24
- Chief Guest Editor, Special Collection on “Project Management for Sustainable Construction” *Journal of Sustainability*, MDPI, 2021-22
- Chief Guest Editor, Special Collection on “Impact of Project Delivery Systems and Information Technology on Contractual Performance and Disputes” *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, ASCE, 2019-20
- Chief Guest Editor, Special Collection on “Legal Issues and Lessons Learned with Project Delivery Systems.” *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, ASCE, 2018
- Reviewer of *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, ASCE
- Reviewer of *Journal for Construction Engineering and Management*, ASCE
- Reviewer of *Journal of Management in Engineering*, ASCE
- Reviewer of *Journal of Practice Periodical on Structural Design and Construction*, ASCE
- Reviewer of *Infrastructure Systems*, ASCE
- Reviewer of *Journal of Professional Issues in Engineering Education and Practice*, ASCE
- Reviewer of *Journal of Architectural Engineering*, ASCE
- Reviewer of *Construction Management and Economics*
- Reviewer of *International Journal of Project Management*
- Reviewer of Project Management, *Journal of Project Management Institute (PMI)*
- Reviewer of *Journal of Engineering, Construction, and Architectural Management*
- Reviewer of *Journal of Applied Energy*, Elsevier
- Reviewer of *Journal of Construction Engineering*
- Reviewer of *KSCE Journal of Civil Engineering*

- Reviewer of *International Journal of Construction Education and Research*, ASC
- Reviewer of *Journal of Civil Engineering and Management*
- Reviewer of *American Journal of Industrial Medicine*
- Reviewer of International Conference on Sustainable Infrastructure, New York - 2017
- Reviewer of American Society of Engineering Educations (ASEE), Atlanta, 2013
- Reviewer of ASCE Construction Research Congress (CRC) Conference, 2010, 2012, 2013, 2014, 2016, and 2018
- Reviewer of ASCE Conference on Computing in Civil Engineering, 2009
- Reviewer of ASC International Proceedings of Annual Conference, 2009, 2010, 2011, 2012, 2013, 2014
- Reviewer of ASCE International Conference on Sustainable Design and Construction, 2011 and 2012
- Reviewer of 5th International Conference on Structural Engineering and Construction, 2009

CONFERENCES INVOLVEMENT

- Technical Committee Member of “2022 *International Conference on Construction Engineering and Project Management*.” Las Vegas, NV, June 20-23, 2022. <https://iccepm2022.com/technical-committee/>
- Editorial Board/Technical Committee Member of “*Interdisciplinary Civil and Construction Engineering Projects*.” Cairo, Egypt, July 26-31, 2021. (https://www.isec-society.org/ISEC_11/committees.php).
- Organizing Committee Members of “*International Conference and Exhibition on Building Materials and Construction Technologies*.” Dubai, United Arab Emirates, April 06-08, 2021, (<https://bmctdubai.org/organizing-committee-member/pramen-p-shrestha-/2643>)
- International Scientific Program Committee Member, CIB World Building Congress 2019, “*Constructing Smart Cities*.” The Hong Kong Polytechnic University, Hong Kong, China, 17-21 June, 2019 (<http://www.bre.polyu.edu.hk/CIBWBC2019/committee.html>).
- Program Committee Member of Infrastructure Management, *ASCE Construction Research Congress Conference*, Baton Rouge, LA, April 2-5, 2018.
- Program Committee Member of Contracting and Legal Issues, *ASCE Construction Research Congress Conference*, Baton Rouge, LA, April 2-5, 2018.
- Organizing Committee Member, *International Conference on Infrastructure and Construction*, Dubai, UAE, April 19-21, 2018.
- Program Committee Member for *International Conference on Sustainable Design Engineering, and Construction (ICSDEC)*, Tempe, Arizona, 18-20 May 2016.

- Program Committee Member for *International Symposium on Automation and Robotics in Construction*, Sydney, Australia, July 9-11, 2014
- Program Committee Member for Infrastructure Management and Disaster Response, *2014 ASCE Construction Research Congress (CRC) Conference*, Atlanta, GA, May 19-21, 2014.
- Program Committee Member, *The 3rd International Conference on Civil Engineering and Urban Planning (CEUP 2014)*, Wuhan, China, June 20-22, 2014
- Chair of Track 5 Committee of *International Conference on Sustainable Design and Construction*, Dallas, TX, November 2012.
- Member, Scientific Committee of *International Conference on Sustainable Design and Construction*, Kansas City, MI, March 2011.
- Chairing Sustainability Session of *2010 ASC Construction Research Congress Conference* held in Alberta, Canada, May 8-11, 2010.
- Chairing a Session of *ASC 45th International Annual Conference* held in Gainesville, FL, April 3-5, 2009.
- Chairing two sessions of *5th International Conference on Structural Engineering and Construction Conference* held on Las Vegas, NV, September 23-25, 2009.

RESEARCH INTERESTS:

Research Interests:

- Project delivery methods/ Alternative Contracting Methods
- Benchmarking of construction projects
- Contract procurement
- Heavy highway construction and maintenance
- Sustainability
- Construction safety
- Highway safety
- Work zone safety
- Quantitative methods
- Asset management
- Workforce management

AWARDS/HONORS:

Best Reviewer, 2019, Journal of Legal Affairs and Dispute Resolutions, ASCE

Best Reviewer, 2018, Journal of Legal Affairs and Dispute Resolutions, ASCE

University of Nevada Las Vegas

- [Outstanding University Graduate Faculty Mentorship Award](#), 2022
- [Outstanding University Graduate Faculty Leadership Award](#), 2020.
- Howard R. Hughes College Distinguished Service Award, 2020.
- Howard R. Hughes College Distinguished Teaching Award, 2018
- Best Teaching Award, Civil & Environmental Engineering & Construction, 2017
- Construction Management Outstanding Faculty, 2010
- Construction Management Outstanding Faculty, 2009
- Construction Management Outstanding Faculty Service Award, 2008

The University of Texas at Austin

- Richard and Shirley Tucker Scholarship in CEPM, UT, 2007
- Richard and Shirley Tucker Scholarship in CEPM, UT, 2004
- President - Graduate Student Organization, CEPM, 2005/2006
- Webmaster of CEPM website - 2005/2007
- 40-hour Basic Mediator Training for Texas Court Appointed Mediation - 2006

Oklahoma State University

- Swiss Development Agency Scholarship for MSE Study, 2001-2002
- Student member of American Society of Civil Engineers (ASCE) - 2006
- Member of Phi Kappa Phi - 2002
- Vice-Secretary of Nepalese Students Organization, OSU, OK - 2002-2003

Job in Training in Germany

- Carl Duisberg Gesellschaft Scholarship for 18 Months Internship, 1998-1999

National Institute of Technology, India

- Ranked 5th out of 200 University undergraduate students – 1988
- Colombo Plan Scholarship for Undergraduate Study, 1984-1988

GRADUATE AND UNDERGRADUATE STUDENTS ADVISING:

University of Nevada Las Vegas

- ***Ph.D. Dissertation Committee Chair (7 Students)***
 1. Ms. Ruiko Maharajan, Ph.D. in Civil Engineering (Fall 2017), Project Manager, Martin Harris Construction, Las Vegas, NV
 2. [Dr. Tommy Tafazzoli](#), Ph. D. in Civil Engineering (Spring 2017), Assistant Professor of Construction Engineering, Washington State University, Pullman, WA
 3. [Dr. Kishor Shrestha](#), Ph.D. in Civil Engineering (Spring, 2016) – Assistant Professor of Construction Engineering, Washington State University, Pullman, WA
 4. Dr. Kabindra Shrestha, Ph.D. in Civil Engineering (Spring 2016), Project Manager, Gunda Corporation, Houston, TX.
 5. [Ms. Medya Fathi](#), Ph.D. in Civil Engineering (Spring 2020), Assistant Professor of Civil & Environmental Engineering, Manhattan College, Riverdale, NY.
 6. Ms. Bandana Shrestha, Ph.D. in Civil Engineering (Fall 2023)
 7. Pooja Basnet, Ph.D in Civil Engineering (Spring 2027)
- ***Ph.D. Dissertation Committee External Reviewer***
 1. Ms. Mayssa Ali Kalach, Ph.D. in Civil Engineering, American University of Beirut (Expected Spring 2020).
- ***Ph.D. Dissertation Committee Member (10 Students)***
 1. Ms. Julie C. Rochefort – Doctor in Nursing Practice (DNP) – Spring 2013
 2. Ms. Pretrescia Walker, - Doctor in Nursing Practice (DNP) – Spring 2013
 3. Ms. Vidhya Kumaresan, Ph.D. in Civil Engineering (Spring 2014)
 4. Mr. Mohammed Sajjad Ph.D. in Civil Engineering-Structural (Spring 2015)

5. Mr. Mukesh Khadka, Ph.D. in Civil Engineering-Transportation (Fall 2016)
6. Ms. Robabeh Jazaei, Ph.D. in Civil Engineering – Structural (Fall 2017)
7. Mr. Binit Shrestha, Ph.D. in Civil Engineering –Construction (Spring 2021)
8. Ms. Saba Nikkhah, Ph.D. in Civil Engineering –Construction (Spring 2021)
9. Mr. James Bistrow, Ph.D. in Civil Engineering – Geotechnical (Fall 2021)
10. Mr. Sayan Shakhakarmi, Ph.D. in Civil Eng. – Construction (Fall 2022)

- ***Thesis Committee Chair for 24 Master Thesis Students***

1. Ms. Leslie A. Burns, M.S. in Construction Management (Fall, 2008)
2. [Dr. Nipesh Pradhananaga](#), M.S. in Construction Management (Fall, 2009), Assistant Professor at Florida International University, FL
3. Mr. Prajakta Kulkarni, M.S. in Construction Management (Fall, 2009)
4. Dr. Krishna Kisi, M.S. Construction Management (Spring, 2010), Assistant Professor at Texas State University, San Marcos, TX.
5. Mr. Nitisha Pushpala, M.S. in Construction Management (Fall, 2010)
6. [Dr. Nirajan Mani](#), M.S. in Construction Management (Spring 2011), Assistant Professor at Fitchburg State University, MA
7. Mr. James Fernandez, M.S. in Construction Management (Summer, 2011)
8. Mr. Vedaspati Joshi, M.S. in Construction Management (Fall, 2011)
9. Dr. Kishor Shrestha, M.S. in Construction Management (Spring 2012)
10. [Dr. Krishna Shrestha](#), M.S. in Civil Engineering (Spring 2013), Assistant Professor at East Tennessee State University, TN
11. Mr. Christopher Lee, M.S. in Civil Engineering -Construction (Sum. 2013)
12. Mr. Sanjib Mulepati, M.S. in Civil Engineering -Construction (Fall 2013)
13. Ms. Binita Shakya, M.S. in Civil Engineering -Construction (Fall 2013)
14. Ms. Ruiko Maharjan, M.S. in Civil Engineering -Construction (Fall 2013)
15. Mr. Ravi Sharma, M.S. in Civil Engineering -Construction (Fall 2013)
16. Mr. Dinesh Dhakal, M.S. in Civil Engineering -Construction (Fall 2014)
17. Mr. Krishna Neupane, M.S. in Civil Engineering - Construction (Fall 2016)
18. Mr. Sayan Sakhakarmi, MS in Construction Management (Fall 2017)
19. Ms. Elina Prajapati, M.S. in Civil Engineering – Construction (Fall 2019)
20. Ms. Shristy Maharjan, M.S. in Civil Engineering – Construction (Fall 2020)
21. Ms. Deekshitha Srirangam, M.S. in Civil Engineering – Construction (Fall 2020)
22. Mr. Dann Laurence Goze M.S. in Civil Engineering – Construction (Spring 2023)
23. Mr. Shrijan Shrestha, M.S. in Civil Engineering – Construction (Fall 2023)
24. Mr. Bharat Kalivarapu, M.S in Construction & Infrastructure Management – Spring 2024).

- ***Non-Thesis Committee Chair for 2 Master in Civil Engineering students***

1. Mr. Siamak Tumari, M.S. in Civil Engineering, Construction (Fall 2017)
2. Mr. Carmelo Verry, M.S. in Civil Engineering, Construction (Spring 2019)

- ***Project Report Committee Chair for 11 Master of Construction Management Students***
 1. Mr. Dozie Oparaugo, M.S. in Construction Management (Spring, 2009)
 2. Mr. Eric Becerra, M.S. in Construction Management (Spring, 2010)
 3. Mr. Hailek Zeleke, M.S. in Construction Management (Spring, 2010)
 4. Mr. Archie Rabast, M.S. in Construction Management (Summer, 2010)
 5. Mr. Nicholas Meyer, M.S. in Construction Management (Fall 2011)
 6. Mr. Charles Burns, M.S. in Construction Management (Fall 2011)
 7. Mr. Marvan Loud, M.S. in Construction Management (Spring 2013)
 8. Mr. Pradeep Shrestha, M.S. in Construction Management (Spring 2014)
 9. Mr. Amir Sadatian Moghaddam, M.S. in Construction Management (Summer 2020)
 10. Mr. Paulo Oko, M.S. in Construction Management (Fall 2020)
 11. Ms. Mythili Pragada, M.S. in Construction Management (Spring 2021)
- ***Committee Member of 13 Graduate Students***
 1. Mr. Charles J. Benford Jr. (Fall, 2008)
 2. Ms. Eliza Shrestha, M.S. in Civil Engineering (Spring, 2011)
 3. Mr. Bartek Kajak, M.S. in Electrical and Computer Engineering (Summer 2011)
 4. Ms. Namrata Shrestha, M.S. in Construction Management (Spring, 2012)
 5. Mr. Surendra Shrestha, M.S. in Computer Science (Spring 2014)
 6. Ms. Indira Khanal, M.S. in Civil Engineering -Transportation (Spring 2014)
 7. Mr. Abbas Mirakhorli, M.S. in Civil Engineering-Transportation (Sum. 2014)
 8. Mr. Nick Gordon, M.S. in Civil Engineering – Structural (Fall 2014)
 9. Mr. James M. Bristow, MS in Civil Engineering – Geotechnical (Spring 2017)
 10. Ms. Amy Nakatani, MS in Computer Science (Spring 2017)
 11. Mr. Kul Shrestha, MS in Civil Engineering – Transportation (Summer 2017)
 12. Ms. Farideh Foroozandeh Shahraki, Electrical Engineering (Summer 2017)
 13. Mr. Binit Shrestha, MS in Construction Management (Fall 2017)
- ***Advisor for 2 Undergraduate Research Students***
 1. Mr. Atilio Solimano Jr.
 2. Mr. Javier Payan
- ***Advisor of 5 Engineering Intern Students***
 1. Mr. Rodrigo Kenneth Gusmao Iwanaga - Intercambio Internacional da Reitoria of the Universidade de Sao Paulo e Pró-Reitoria de Pesquisa. Brazil – July – Oct., 2013
 2. Ms. Hager Akriche - General Engineering Department, CESI Engineering School, 93 BD De la Seine, 92000 Nanterre, France – Sept – Oct., 2014
 3. Mr. Joao Versiani Sathler, Brazilian student, June – August, 2015.
 4. Jawad Sikander - General Engineering Department, CESI Engineering School, 93 BD De la Seine, 92000 Nanterre, France - Sept – October, 2016
 5. Mr. Mor Biton, Israeli student, July – August, 2017.

UNIVERSITY SERVICES:

- *Member* of Faculty Senate Admission Committee, 2021 - Till
- *Member* of Faculty Senate Undergraduate Curriculum Committee, 2020 - Till
- *Member* of University Tier 1 Committee (2019 – Till)
- *Member of* Top Tier Doctoral Graduate Research Assistant Committee, 2019.
- *Member* of University Faculty Senate Infrastructure Committee (2017 – 2019)
- *Member* of CEEC Department Executive Committee (2015 – Till)
- *Member* of CEEC Department Undergraduate Curriculum Committee (2015 – 2017)
- *Member* of CEEC Department Graduate Committee (2011- 2015)
- *Member* of College Curriculum Committee (2007-2011)
- *Member of* University Faculty Senate by Law Committee (2012-2014)
- *Alt. Member* of University Faculty Senate Promotion and Tenure Committee. (2013-2015)
- *Faculty Advisor* for AGC Student Chapter (2007 – 2010)
- *Undergraduate Advisor*, Construction Management (2009-2011)
- *Co-PI* for Race to Zero competition held by US Department of Energy – Awarded best design
- *Search Committee Chair* of Assistant/Associate Professor in Smart and Sustainable Infrastructure Systems – 2019/2020.
- *Search Committee Chair* of Assistant/Associate Professor in Geotechnical Engineering – 2017/2018.
- *Search Committee Chair* of Assistant Professor in Construction Engineering – 2016/2017
- *Search Committee Member* for Full Professor in Water Resources
- *Search Committee Chair* of Assistant Professor in Construction Engineering – 2015/2016
- *Search Committee Member* of Assistant Professor on Water Resources – 2011/12
- *Search Committee Member* of Transportation Engineers for Transportation Research Center, UNLV – 2014
- *Search Committee Member* of Geographical Information System Engineer for Transportation Research Center, UNLV – 2014
- *Search Committee Member* of Lab Manager for CEEC Department – 2013
- *Search Committee Member* of Office Administrative Assistant III for CEEC Department – 2012
- *Search Committee Member* of Office Administrative Assistant IV for CEEC Department - 2015

PROFESSIONAL MEMBERSHIPS:

Texas Board of Professional Engineers

- Professional Engineer (P.E) in the state of Texas, 2007

Member of Associations and Research Panels

- Member of Project Delivery (AKC 20) Committee, Transportation Research

Board (TRB) – 2017 to Present

- Member of Power, Utilities, and Infrastructure Sector Committee, Construction Industry Institute (CII) – 2017 to Present.
- Active Member of NCHRP Project Panel 20-05/Topic 50-15, FY 2018/2019 – *Asset Management Approaches to Identifying and Evaluating Assets Damaged Due to Emergency Events*
- Active Member of ACRP Research Project Panel 02-75, FY 2016 – *Benefit-Cost Analyses Guidebook for Airport Stormwater*
- Member of NCHRP Research Project Panel 08-107, FY 2016 – *A Guidebook for Emergency Contracting Procedures for Administration of a Regional Emergency*
- Member of NCHRP Research Project Panel 19-12, FY 2016 – *Development of Financial Plans and Performance Measures for Transportation Asset Management*
- Member of NCHRP Research Project Panel 20-100, FY 2015 - *Estimating the Return on Investment in Transportation Asset Management Systems and Practices*
- Active Member of NCHRP Research Project Panel 15-51, FY 2013 –2015 *Preconstruction Services Cost Estimating Guide*
- Member of NCHRP Research Project Panel 20-59(36), FY 2013-2014, *Catastrophic Transportation Emergency Management Guidebook*
- Member of Center for Construction Research and Training, CPWR
- Member of National Institute Occupational Safety and Health (NIOSH) Scaffolding Safety Committee
- Member of Construction Industry Institute (CII) Academic Committee, 2010-2016
- Member of American Society of Civil Engineer (M. ASCE), 2007
- Member of Construction Research Congress (CRC), ASCE, 2007
- Member of Design Build Institute of America (DBIA), 2015
- Member of Construction Management Association of America (CMAA), 2007
- Member of Construction Financial Management Association (CFMA), 2008
- Member of Construction Institute, ASCE, 2008
- Member of CPWR since 2014
- Executive Member of American Society of Nepalese Engineers, 2011-12
- Member of The Honor Society of Phi Kappa Phi - 2003

Nepal Engineering Society

- Member of Nepal Engineering Association, 1988
- Registered with the Nepal Engineering Council, 2000

PROFESSIONAL SKILLS:

Computer Software Skills

- Project management software (Primavera, Heavy Bid Software)
- Microsoft Office applications (Access, Excel, PowerPoint, Word, Front Page, Dreamweaver MX)
- Statistical and risk simulation software (SPSS, Crystal Ball and @ Risk)
- Computer aided design software: Select CAD, MicroStation, AutoCAD

- Microsoft Visio

Language Skill

- Fluent in reading, writing, and speaking of: English, Hindi, Nepali, and Newari

RESEARCH EXPERIENCE:

[24] **Principal Investigator**, Funding Agency: Airport Cooperative Research Program (ACRP). October. 2017– October 2018.

Quantifying the Impacts of Delayed Maintenance of Airport Assets.

The main goal of this research is to determine the impact of providing inadequate funding for maintenance work in airport assets. Six different airport assets will be analyzed to quantify the financial impacts of delayed maintenance.

[23] **Principal Investigator**, Funding Agency: Airport Cooperative Research Program (ACRP). October. 2017– October 2018.

Legal Issues Relating to Large Scale Airport Construction Projects

The main goal of this research is to collect the lessons learned related to legal issues involved in large airport projects built using Construction Manager at Risk (CMAR) and Design Build (DB) delivery methods.

[22] **Principal Investigator**, Funding Agency: ARMOROCK Inc. Jan.– Sept., 2017, *Life-Cycle Cost Benefit Analysis: Comparing Portland Concrete and Polymer Concrete Manholes in Sewer Systems – First Phase*

The main goal of this research is to compare the life cycle cost of Portland concrete and polymer manholes in sewer system.

[21] **Co-Principal Investigator**, Funding Agency: National Science Foundation (NSF), July, 2017 – June, 2019

An Investigation of Construction Workforce and Education Inequalities and Biases in Construction/Civil/Architectural Engineering

The main goal of this research is to determine the existence of inequalities and biases within the construction workforce and education by race/ethnicity and gender.

[20] **Co-Principal Investigator**, Funding Agency: NDOT, May, 2016 – May, 2018

Self-Consolidating Concrete for Precast Pre-Stressed Bridge Girders

The main goal of this research is to design the self-consolidating concrete mix which can be used in precast pre-stressed bridge girders to be used by NDOT.

[19] **Principal Investigator**, August, 2014 – July, 2015

Identifying Lessons-learned in using DB Project Delivery Methods in Water and Wastewater Projects

The main goal of this research is to identify the lessons-learned in using DB and CMAR project Delivery Methods in Water and Wastewater projects.

[18] **Principal Investigator**, March, 2014 – May, 2015

Framework Development of Transit Ridership for University Bus Users

The main goal of this research is to develop a framework of Transit Ridership for UNLV Bus system. The framework will consist of detailed analysis of cost and origin and destination survey results.

[17] **Principal Investigator**, January, 2014 – August, 2014

Investigation of Stripping Removal Methods

The main goal of this research is to gather information about the chemical impact of stipe removal methods on highway pavements and perform cost analysis to determine whether chemical stripping method is cost effective than mechanical strip removal methods.

[16] **Principal Investigator**, July, 2013 – January, 2014

Impediments to using DB and CMAR Project Delivery Methods in Water and Wastewater Projects

The main goal of this research is to identify the impediments in using DB and CMAR project Delivery Methods in Water and Wastewater projects.

[15] **Co-Principal Investigator**, August, 2013 – May, 2014

Cost Effectiveness and Efficiency Measurement of Innovative CO2 LASER-based Pavement Striping and Stripe Removal

The main goal of this research is to explore the new innovative CO2 LASER-based pavement stripping and strip removal equipment and analyze the cost effectiveness of this equipment.

[14] **Co-Principal Investigator**, August, 2013 – May, 2014

Economic Assessment of the Ability of a “Land Ferry” System to Alleviate Increasing Costs of Maintaining the I-80 Transportation Corridor

The main goal of this research is to conduct the feasibility study of land ferry system in I-80 transportation corridor along Nevada section.

[13] **Co-Principal Investigator**, August, 2013 – May, 2014

Enhancing the Stability of Underwater (Self-Consolidating) Concrete for Drilled Shafts

The main goal of this research is to design the concrete mix which can be used in underwater drilled shafts to be used by NDOT

[12] **Principal Investigator**, January, 2013 – January, 2014

Life Cycle Cost Analysis of RC Columns Rehabilitation Techniques under Various Durability Exposures

The main goal of this research is to determine the life cycle cost of these two techniques for RC Columns rehabilitation contracts.

[11] **Principal Investigator**, July, 2012 – January, 2013

Effectiveness Study of Alternative Project Delivery Methods in Water and Wastewater Projects

The main goal of this research is to determine the benefits and barriers in using design build (DB) and construction management at risk (CMR) project delivery methods in water and wastewater infrastructure projects.

[10] **Co-Principal Investigator**, September, 2012 – September, 2013
Enhancing the Stability of Underwater (Self-Consolidating) Concrete for Drilled Shafts
The main goal of this research is to design the concrete mix which can be used in underwater drilled shafts to be used by NDOT

[9] **Principal Investigator**, January, 2012 – September, 2014
Investigation of Innovative Maintenance Contract Performance-Based Maintenance Contract
The main goal of this research is to prepare performance-based specification for maintenance activities conducted by private contractors for NDOT

[8] **Principal Investigator**, June, 2011 – December, 2012
Preparing Guidelines to Reduce Speed in Towns along Rural Highways
The main goal of this research is to prepare guidelines to reduce the speed in towns along rural highways that will ultimately improve the safety of road users.

[7] **Principal Investigator**, September 2010 – May, 2013
Construction Safety Visualization
University Research Grant to develop algorithms that will determine the use of safety equipment by workers in construction sites by analyzing the real time image.

[6] **Co-Principal Investigator**, January 2012 – December, 2013
Solar Decathlon funded by Department of Energy (DOE).
Team Las Vegas will design and construct energy efficient solar energy home to compete with international universities.

[5] **Co-Principal Investigator**, September 2009 – December, 2011
Susan Harwood Training Grant for conducting the Fall Prevention Training to Southern Nevada Construction workers and the follow up research to determine the impact of training on construction safety performance.

[4] **Co-Principal Investigator**, September 2009 – December, 2010
Evaluating the energy and carbon foot print of water conveyance system and future water supply options for Las Vegas, NV.

[3] **Graduate Research Assistant**, September 2006 – July 2007
Center for Construction Industry Studies
Department of Civil Engineering, University of Texas, Austin, TX

- Collect large design-build and design-bid-build highway projects data and use statistical analysis to compare the performance of these two types of projects.

[2] **Graduate Research Assistant**, September 2004 – August 2006
Department of Civil Engineering, University of Texas, Austin, TX
Texas Department of Transportation (TxDOT)-sponsored research project “Monitoring and Evaluation of SH130 Project Construction.”

- Collected lessons-learned from SH130 project and developed lessons-learned database system for TxDOT’s future use on DB highway projects

- Identified problems in owner, program manager, and contractor's organization and communication structure in design-build highway project
- Conducted personal interviews with project owner, program manager, and contractor to make recommendation for efficient organization and communication systems
- Conducted industry-seminar for 25 TxDOT district staff members regarding SH 130 research findings

[1] **Graduate Research Assistant**, January 2002 – May 2003

Department of Civil Engineering, Oklahoma State University, Stillwater, OK

Central Federal Lands Highway Division (CFLHD), FHWA sponsored pavement related research

- Produced a prime and tack coat guide publication developed for project development and field personnel
- Provided decision-making guidance on how to use, when to keep, and when to eliminate prime and tack coats in asphalt pavement construction
- Conducted literature review and phone surveys of current practice of DOTs from the CFLHD region

TEACHING EXPERIENCE:

Courses Taught

- Fundamental of Construction Science, CEM 150
- Engineering Ethics for Civil Engineers, CEE 198
- Engineering Surveying, CEE 121
- Project Management for Civil Engineers, CEE 298
- Construction Seminar, CEM 198/298/398/498
- Engineering Economics, CEE 307
- Introduction to Construction Engineering, CEE 340
- Construction Estimating, CEM 451/651
- Engineering Project Management, CEE 409/609
- Fundamental of Engineers Review, CEE 499
- Research Methodology for Construction Management, CEM 700
- Construction Engineering and Management, CEE 785/ CEM 705
- Advanced Scheduling, CEM 751

Teaching Assistant, June – August 2005, June – July 2006, and July – August 2008

Department of Civil Engineering, The University of Texas, Austin, TX

CE N 397 – Financial Management for Construction Firms

- Assisted professor in grading homework and preparing exam
- Instructed class once a week on asset management, accounting, and strategic management of construction firms.

INDUSTRY EXPERIENCE:

Engineer, HMIS, January 2000 – July 2001

Department of Transportation, Nepal

- Established and analyzed databases of highway pavement conditions and made recommendations for five-year and 20-year plan of road construction strategies
- Appraised maintenance budget of national highways for every fiscal year.

Job-In-Training in *Advanced Road Maintenance and Management*, November 1998 – December 1999, *Carl Duisberg Gesellschaft Scholarship, Germany*

- four months of German language classes
- five months of road construction and maintenance technical courses in Berlin
- three months of job-in-training in Munich Department of Roads
- two-month-long management course in Koln

Assistant Resident Engineer, May 1997 – October 1998

Scott Wilson Kirkpatrick, (British Consultant working in Asian Development Bank-funded Road Project in Nepal)

- Supervised construction of 15 miles of highway
- Managed and led 40 construction site personnel.

Engineer, September 1995 – April 1997

Department of Transportation, Dang District, Nepal

- Supervised construction work of district level road projects
- Managed and led junior engineers and construction workers
- Estimated and budgeted maintenance cost of road projects

Project Engineer, July 1990 – April 1997

Department of Transportation, Nepal

- Supervised 100 construction workers of MRM - Gaighat road project

Project Engineer, October 1988 – June 1990

Department of Water Resources and Irrigation, Nepal

- Survey and design irrigation channel and dam
- Reviewed feasibility and detailed design conducted by Design Consultants