

Pardis Pishdad-Bozorgi

Assistant Professor, School of Building Construction

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Educational Background

- Ph.D. (Environmental Design and Planning), CAUS, Virginia Tech
- M.S. (Civil Engineering), COE, Virginia Tech
- MDesS. (Project Management & Real Estate), GSD, Harvard University
- MArch (Architecture), COFA, University of Tehran
- B.S. (Architectural Engineering), COA, I.A. University of Shiraz

Areas of Expertise

- Integrated Project Delivery (IPD)
- Flash Tracking
- BIM for Facility Management
- Internet-of-Things and Smart Built Environment
- Alternative Project delivery and contracting strategies
- Trust-building in construction contracting
- BIM 3D/4D/5D design,
- Life cycle Cost Analysis and Machine Learning
- Lean construction

Awards and Recognition

- 2018 Construction Management Association of America (CMAA) National Educator of the Year Award
- 2018 Engineering News-Record (ENR) National Top 20 Under 40 Professionals
- 2018 Thanks for Being a Great Teacher Certificate of Recognition
- 2018 Engineering News Record (ENR) Southeast Top Young Professionals “Top 20 under 40” Honoree
- 2018 Transportation Research Board (TRB) Best Poster Award
- 2017 Thanks for Being a Great Teacher Certificate of Recognition
- 2016 Construction Industry Institute (CII) Outstanding Researcher Award
- 2016 Georgia Tech College of Architecture Outstanding Faculty Award
- 2015 Advance Women of Excellence Faculty Award
- 2015 iTWO Best Research Partner in America Award
- 2014 ASC National Teaching Excellence Award
- 2014 Georgia Tech Face of Inclusive Excellence
- Featured in Atlanta Business Chronicle, February 2014
- 2013 Class of 1969 Teaching Fellows
- 2013 ASC Regional Teaching Excellence Award

Research

My research goal is to develop innovative strategies that would enhance design/engineering/construction/facility operation and management integration and promote sustainable and lean practices.

Peer-Reviewed Publications

Company Internal

1. Gao, X., and Pishdad-Bozorgi, P. (2019). BIM-enabled Facilities Operation and Maintenance: A Review. *Journal of Advanced Engineering Informatics*, Vol. 39, pp. 227-247. <https://doi.org/10.1016/j.aei.2019.01.005>
2. Tang, S., Shelden, D., Eastman, C., Pishdad-Bozorgi, P., Gao, X. (2019) A Review of Building Information Modeling (BIM) and the Internet of Things (IoT) Devices Integration: Present Status and Future Trends. *Journal of Automation in Construction*, Vol 101, pp. 127-139. <https://doi.org/10.1016/j.autcon.2019.01.020>
3. Pishdad-Bozorgi, P., Shah, A. (2019) Case Study of a Living Building Challenge Project. Proceedings of the Associated Schools of Construction (ASC) 55th Annual International Conference, Denver, CO
4. Gao, X., and Pishdad-Bozorgi, P. (2019). Machine Learning-based Life-cycle Cost Analysis for Educational Facilities. Proceedings of the Associated Schools of Construction (ASC) 55th Annual International Conference, Denver, CO.
5. Gao, X, Pishdad-Bozorgi, P., Shelden, D., Hu, Y. (2019) Machine Learning Applications in Facility Life-cycle Cost Analysis: A Review. Proceedings of the 2019 ASCE International Conference on Computing in Civil Engineering.
6. Pishdad-Bozorgi, P., Gao, X., Eastman, C., and Self, P. (2018). Planning and developing facility management-enabled building information model (FM-enabled BIM). *Journal of Automation in Construction*, Vol. 87, pp. 22-38. <https://doi.org/10.1016/j.autcon.2017.12.004>
7. Gao, X., and Pishdad-Bozorgi, P. (2018). Past, Present, and Future of BIM-enabled Facilities Operation and Maintenance. Proceedings of the ASCE 2018 Construction Research Congress. New Orleans, LA
8. de la Garza, J.M., and Pishdad-Bozorgi, P. (2018). A Workflow Process Model for Flash Track Projects. *ASCE, Journal of Construction Engineering and Management*, Vol. 144, Issue 6. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001501](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001501)
9. Pishdad-Bozorgi, P., Srivastava., D. (2018) Assessment of Integrated Project Delivery (IPD) Risk and Reward Sharing Strategies from the Standpoint of Collaboration: A Game Theory Approach. Proceeding of 2018 Construction Research Congress
10. Pishdad-Bozorgi, P., de la Garza, J. (2018) Virginia Department of Transportation Flash Tracking Best Practices for Accelerated Project Delivery. Proceeding of 2018 Transportation Research Board
11. Pishdad-Bozorgi, P., de la Garza, J., Bhatambrekar, A. (forthcoming: 2018). Georgia Department of Transportation Flash Tracking Best Practices for Accelerated Project Delivery. Proceeding of 2018 Transportation Research Board
12. Gao, X., Pishdad-Bozorgi, P. (2018) Past, Present, and Future of BIM-enabled Facilities Operation and Maintenance. Proceeding of 2018 Construction Research Congress
13. Pishdad-Bozorgi, P., Gao, X., Eastman, C., Self, P., (2017 online, 2018 printed) Planning and developing facility management-enabled building information model (FM-enabled BIM), *Automation in Construction*, Vol. 87, Pages 22-38, ISSN 0926-5805, <https://doi.org/10.1016/j.autcon.2017.12.004>
14. Pishdad-Bozorgi, P. (2017). Future Smart Facilities: State-of-the-Art BIM-Enabled Facility Management. *Journal of Construction Engineering and Management*. Vol. 143. Issue 9. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001376](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001376). American Society of Civil Engineers
15. Pishdad-Bozorgi, P. (2016 online/ 2017 printed). Case Studies on the Role of Integrated Project Delivery (IPD) Approach on the Establishment and Promotion of Trust. *International Journal of Construction Education and Research*. Vol. 13, Issue 2. <http://dx.doi.org/10.1080/15578771.2016.1226213>. Taylor & Francis
16. Pishdad-Bozorgi, P., Austin, R.B., and de la Garza, J.M. (Published online, July 2016). Network Analysis of Flash Track Practices. *ASCE, Journal of Management in Engineering*. [http://dx.doi.org/10.1061/\(ASCE\)ME.1943-5479.0000466](http://dx.doi.org/10.1061/(ASCE)ME.1943-5479.0000466)
17. Pishdad-Bozorgi, P., de la Garza, J.M., and Austin, R.B. (2016). Readiness Assessment for Flash Tracking. *ASCE, Journal of Construction Engineering and Management*. Vol. 142, Issue 12. [https://dx.doi.org/10.1061/\(ASCE\)CO.1943-7862.0001190](https://dx.doi.org/10.1061/(ASCE)CO.1943-7862.0001190).

18. Pishdad-Bozorgi, P., and Beliveau, Y.J. (2016). Symbiotic Relationships between Integrated Project Delivery (IPD) and Trust. Taylor & Francis, ASC International Journal of Construction Education and Research. Vol. 12, Issue 3. <https://dx.doi.org/10.1080/15578771.2015.1118170>
19. Pishdad-Bozorgi, P., and Beliveau, Y.J. (2016). A Schema of Trust Building Attributes and Their Corresponding Integrated Project Delivery Traits. Taylor & Francis, ASC International Journal of Construction Education and Research. Vol. 12, Issue 2. <https://dx.doi.org/10.1080/15578771.2015.1118171>
20. Pishdad-Bozorgi, P., Austin R. & de la Garza J. M. (2016). Flash Track Practices Distilled via Structured Interviews from EPC Projects. 2016 Construction Research Congress Proceedings. Puerto Rico
21. Bhattacharjee, S., Pishdad-Bozorgi, P., Ganapathy, R. (2016). Adoption of Pre-fabrication in Construction to Achieve Sustainability Goals: An Empirical Study. 2016 Construction Research Congress Proceedings. Puerto Rico
22. Austin R., Pishdad-Bozorgi, P., and de la Garza, J.M. (2015). Identifying and Prioritizing Best Practices to Achieve Flash Track Projects. ASCE, Journal of Construction Engineering and Management. Vol. 142. Issue 2. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001061](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001061)
23. Gosh, S., Ganapathy, R. & Pishdad-Bozorgi, P. (2015). Promoting Lean and Sustainability through Implementation of BIM-enable Prefabrication in Construction. 17th Lean Construction Institute (LCI) Congress. Boston, MA
24. Pishdad-Bozorgi, P., & Haymaker, J. (2014). Impact of Decision Making Methods on Trust. Proceedings of the 2014 ASCE Construction Research Congress. Atlanta, GA
25. Gosh, S. & Pishdad-Bozorgi, P. & Bhattacharjee, S. (2014). Intersection of Prevention through Design (PtD) and Integrated Project Delivery (IPD). Proceedings of 50th Annual International Associated School of Construction (ASC). Washington, D.C.
26. Abdirad, H. & Pishdad-Bozorgi, P. (2014). Developing a Framework of Metrics to Assess Collaboration in Integrated Project Delivery (IPD) Setting. Proceedings of 50th Annual International Associated School of Construction (ASC). Washington, D.C.
27. Abdirad, H. & Pishdad-Bozorgi, P. (2014). Trends of Assessing BIM Implementation in Construction Research. Proceeding of the International Conference on Computing in Civil and Building Engineering (ICCCBE). Orlando, FL
28. Gosh, S., Bhattacharjee, S., Pishdad-Bozorgi, P., Ganapathy, R. (2014). Lean And Green: A Case Study to Examine Environmental Benefits of Lean Construction. International Group for Lean Construction Conference. Oslo, Norway
29. Pishdad-Bozorgi, P. & Bowen, B. (2013). Overcoming the Dilemma of Early Pricing: The Study and Analysis of Target Pricing In IPD Approach. Canadian Society of Civil Engineering. Montreal. Canada
30. Pishdad-Bozorgi, P. & Hamzanlui Moghaddam, H., Karasulu, Y. (2013). Advancing Target Price and Target Value Design Process in IPD Using BIM and Risk-Sharing Approaches. Proceedings of 49th Annual International Associated School of Construction (ASC). San Luis Obispo, California
31. Pishdad-Bozorgi, P. & Hamzanlui Moghaddam, H. (2013). How to Sustain Construction Market in Uncertain Economic Condition? The Study and Analysis of Financial Risk Management Techniques and the Comparative Effectiveness of Different Project Delivery Systems. Canadian Society of Civil Engineering. Montreal. Canada
32. Pishdad-Bozorgi, P. (2012). Integrated Project Delivery (IPD) and Trust-building Attributes. Doctoral Dissertation. Virginia Tech.
33. Pishdad-Bozorgi, P. & de la Garza, J. M. (2012). Comparative Analysis of Design-Build and Design-Bid-Build from the Standpoint of Claim. Proceedings of the 2012 ASCE Construction Research Congress (CRC). West Lafayette, Indiana

34. Hatipkarasulu, Y. Gunhan, S. , Pishdad-Bozorgi, P. & Patin (2012). Development and Implementation of Multi-Level Outcomes Assessment Plan for Construction Degree Program. Proceedings of American Society of Engineering Education (ASEE). San Antonio, Texas
35. Pishdad, P. B.& Beliveau, Y. J. (2011). Integrated Real Estate Program: a proposal for undergraduate curricula. American Real Estate Society meetings. Seattle. Washington
36. Pishdad, P. B., Soelberg, C. (2011). Implementing BIM strategies for MEP conflict resolution in a CM course curriculum.Proceedings of CIEC conference. San Antonio. Texas
37. Pishdad, P. B. & Beliveau, Y. J. (2010). Analysis of Existing Project Delivery and Contracting Strategy (PDCS) Selection Tools with a Look Towards Emerging Technology. Proceedings of 46th Annual International Associated School of Construction (ASC). Boston, MA
38. Pishdad, P. B., & Beliveau, Y. J. (2010). Integrating Multi-Party Contracting Risk Management (MPCRM) Model with Building Information Modeling (BIM).Proceedings of CIB W78 Conference. Cairo, Egypt
39. Pishdad, P. B., & Bozorgi, A., & Beliveau, Y. J. (2010). Towards Promoting A Collaborative Mindset: Reaping the Benefits of Big Building Information Modeling (BIM) in an Integrated Real Estate Program. Proceedings of Ecobuild America, BIM Forum Workshop. Washington D.C.

Sponsored Research Projects

Title: Flash Tracking Accelerated Project Delivery (APD) Phase III

Role: Co-Principal Investigator

PI: Dr. Jesus de la Garza

Source: Virginia Department of Transportation

Funding: \$266,136

Title: Foundational Research in Integrated Building - IoT Data Standards

Agency/Company: Center for Development and Application of Internet of Things Technologies (CDAIT)

Role: Principal Investigator

Collaborator: Dennis Sheldon

Funding: \$50,000

Title: Flash Tracking Accelerated Project Delivery (APD)

Role: Principal Investigator

Co-PI: Dr. Jesus de la Garza

Source: Georgia Department of Transportation

Funding: \$226,399

Title: Flash Tracking Accelerated Project Delivery (APD) Phase II

Role: Co-Principal Investigator

PI: Dr. Jesus de la Garza

Source: Virginia Department of Transportation

Funding: \$165,875

Title: A course, entitled "Integrated Design and Construction Process"

Role: Advisor

Source: RIB Company

Funding: \$25,312

Title: Flash Tracking Accelerated Project Delivery (APD)

Role: Co-Principal Investigator

Company Internal

PI: Dr. Jesus de la Garza
Source: Virginia Department of Transportation
Funding: \$150,000

Title: Developing a university advanced course on i-TWO technology
Role: Principal Investigator
Source: RIB Company
Funding: \$40,000

Title: Transitioning to BIM-Enabled Facility Management
Role: Principal Investigator
Source: Digital Building Lab (DBL)
Funding: \$50,000

Title: Developing a Research Agenda for Integrated Design and Construction
Role: Co-PI
Co-PIs: Irizarry, Clarke, de la Garza, Allison, Edwards, Smith
Source: A+CA
Funding: \$10,000

Title: Successful Delivery of Fast-track Projects
Role: Principal Investigator
Co-PI: Dr. Jesus de la Garza
Source: Construction Industry Institute (CII)
Funding: \$218,000

Title: Contracting for FIM (Facility Information Modeling)
Role: Principal Investigator
Source: Digital Building Lab (DBL)
Funding: \$34,000

Title: A Framework of Metric for Assessing the Comparative Effectiveness of IPD versus DB on Value and Waste Realized in Design and Construction Process
Role: Principal Investigator
Source: GTF
Funding: \$10,000

Title: Teaching Fellow
Role: Principal Investigator
Source: Class of 1969 Teaching Fellows
Funding: \$1,000

Course Developed and Taught at Georgia Tech

- Integrated Design, Construction, and Development (BC 4130)
- Design and Construction Process (BC 6550)
- Building Information Modeling (BC 6050, BC 4050)
- Senior Capstone (BC 4630)
- BIM for Building Construction (BC 8803, BC 4803)
- Pre-Construction Workshop (BC 4803)
- Advanced Readings in Building Construction (BC 7200)