

BON-GANG (BG) HWANG (Dr)

PhD(UT Austin, USA), MSE(UT Austin, USA), BSc(Hanyang Univ, Seoul, South Korea), MASCE, MCIB, MSPM



Provost's Chair Professor & Deputy Head
Department of the Built Environment
College of Design and Engineering
National University of Singapore
4 Architecture Drive
Singapore 117566
Tel: (65) 6516 3416; Fax: (65) 6775 5502
Office: SDE1-04-22
Email: bdghbg@nus.edu.sg
Website: <https://cde.nus.edu.sg/dbe/cpairu/>

ACADEMIC QUALIFICATIONS:

- Ph.D., Construction Engineering & Project Management, Civil, Architectural & Environmental Engineering, The University of Texas at Austin, Austin, Texas, USA (Jan. 2004 – Dec. 2006)
- M.S.E., Construction Engineering & Project Management, Civil, Architectural & Environmental Engineering, The University of Texas at Austin, Austin, Texas, USA (Aug. 2002 – Dec. 2003)
- Architectural Engineering, Hanyang University, Seoul, South Korea (Mar. 1993 –Feb. 2000; 1995 – 1997 National Service)

EMPLOYMENT & ADMINISTRATIVE LEADERSHIP RECORDS:

- Provost's Chair Professor (Jan.2026 – Present)
- Professor (Jan.2021 – Present), Associate Professor (with tenure; Jan.2014 –Dec.2020) & Assistant Professor (tenure track; Apr.2008 – Dec.2013), Department of the Built Environment, College of Design and Engineering, National University of Singapore
- University Research Committee (URC) Expert Panel, National University of Singapore (2024 – Present)
- Strategic Hiring Committee, College of Design and Engineering, National University of Singapore (2022 – Present)
- Faculty Promotion & Tenure Committee (FPTC), College of Design and Engineering, National University of Singapore (2022 – Present)
- Research Award Standing Committee, College of Design and Engineering, National University of Singapore (2022 – Present)
- Dean's Chair, College of Design and Engineering, National University of Singapore (May.2020 – Dec.2020)
- Deputy Head (Research), Department of the Built Environment, College of Design and Engineering, National University of Singapore (Jul.2019 – Present)
- Director, Centre for Project Management & Construction Law (CPMCL), Department of the Built Environment, College of Design and Engineering, National University of Singapore (Aug.2017 – Jun.2019)
- Department Faculty Search Committee Chair (2019 – Present) & Member, Department of the Built Environment, College of Design and Engineering, National University of Singapore (2017 – 2019)
- Programme Director, BSc (Project & Facilities Management), Department of the Built Environment, College of Design and Engineering, National University of Singapore (Jul.2013 – Jul.2016)
- Programme Director, B.Sc. (Minor in Project Management), National University of Singapore (Jul.2013 – Jul.2016)
- Post-Doctoral Research Fellow (Jan.2007 – Mar.2008) & Research Assistant (Aug.2003 – Dec.2006), Construction Industry Institute (CII), Austin, Texas, USA
- Project Engineer, Samsung Construction and Technology Corporation, Korea (Dec.1999 – Jul.2002)

TEACHING AREAS:

- Project Management - Feasibility, Scope, Design, Schedule, Execution, Control, Risk & Decision

RESEARCH AREAS:

- Project & Technology Management
- Project/Enterprise Management Strategies and Innovations for Green Building & Infrastructure Projects
- Project/Enterprise Performance Analytics and Innovations
- Project/Enterprise Risk Management and Decision Making

MAJOR AWARDS AND HONOURS (SELECTED SINCE 2022)

- **2025 Best Paper Award**, “Trust, Team Effectiveness, and Strategies: A Comparative Study between Virtual and Face-to-Face Teams”, ASCE Journal of Construction Engineering & Management, Sep 2025.
- **Best Poster Award**, “Enhancing Project Manager–GenAI Interaction: A Bidirectional Analysis for Construction Project Management”, AI4X Conference 2025, National University of Singapore, Singapore, July 2025.
- **World’s Top 2% Scientists 2025, 2024, 2023, 2022, 2021 & 2020**, Identified by Stanford University, both Career-Long and Single Year Categories, Since 2020.
- **Outstanding Project Manager Award 2025, 2022 & 2020**, Outstanding Publication on Project Management- Merit, Society of Project Managers Singapore, Sep 2025, Oct 2022 & Mar 2021
- **Active Contributor**, Construction Management Research, recognized for extensive publications and impactful research on international construction joint ventures. Contributed to NUS’s ranking as the 2nd top institution globally for research performance in Construction Management. Bibliometric analysis from EduRank.org and International Construction Management Research, December 2024.
- **Most Read Articles**, “Critical Project Management Knowledge and Skills for Managing Projects with Smart Technologies”, ASCE Journal of Management in Engineering. (SCIE, Q1, IF: 7.0, CS: 12.3), October 2024.
- **Most Read Articles**, “Challenges and Strategies for the Adoption of Smart Technologies in the Construction Industry: The Case of Singapore”, ASCE Journal of Management in Engineering (SCIE, Q1, IF: 7.0, CS: 12.3), October 2024.
- **Most Downloaded Articles**, “Applications of Smart Technologies in Construction Project Management”, Journal of Construction Engineering and Management (SCIE, Q1, IF: 5.1, CS: 8.2), October 2024.
- **Most Read Articles**, “Applications of Smart Technologies in Construction Project Management”, Journal of Construction Engineering and Management (SCIE, Q1, IF: 5.1, CS: 8.2), October 2024.
- **Top-Ranked Active Contributor**, Sustainable Development and Sustainable Management Research (2012 – 2020), recognized as the most prolific author in the field with 10 influential publications. Contributed to NUS’s ranking as the 2nd top institution globally in sustainable construction research. Bibliometric analysis from a recent sustainable construction study published by Buildings, October 2024.
- **Most Cited Paper**, “Challenges and Strategies for the Adoption of Smart Technologies in the Construction Industry: The Case of Singapore”, ASCE Journal of Management in Engineering (SCIE, Q1, IF: 7.0, CS: 12.3), February 2024.
- **Most Downloaded Articles**, “Challenges and Strategies for the Adoption of Smart Technologies in the Construction Industry: The Case of Singapore”, ASCE Journal of Management in Engineering (SCIE, Q1, IF: 7.0, CS: 12.3), February 2024.
- **WDBE 2023 Awards**, Top Three of the Best Research for Digital Built Environment, “Construction Workers’ Unsafe Behaviour Detection, Analysis and Modification Using a Sensor-Based Diagnostic Mobile System”, World of Digital Built Environment (WDBE) Summit & Awards, Tallinn/Helsinki, Finland, September 2023.
- **Highly Cited Paper**, “Green building project management: obstacles and solutions for sustainable development”, Sustainable Development (SSCI, Q1, IF: 8.2, CS: 14.5), recognised by the Essential Science Indicators, Clarivate Analytics, March 2022.

RESEARCH ACHIEVEMENTS

- Over \$12M Research Projects Performed as PI, Co-PI & Collaborators.
- Over 300 International Refereed Journal Papers, International Refereed Conference Papers & Media and Academic Short Articles / Interviews / Academic Reports.

PROFESSIONAL ACTIVITIES (SELECTED)

- External R&D Project Review Panel: National Science Foundation, USA, Korea Agency for Infrastructure Technology Advancement (KAIA), the National Science Centre, Poland, Research Grants Council (RGC) of Hong Kong
- Advisory Board Member for Government Agencies/Industry Associations: Economic Development Board(EDB), Singapore Chemical Industry Council(SCIC), Association of Process Industry(ASPRI), Productivity Council(PC), Process Construction and Maintenance Management Committee(PCMMC), Korea Agency for Infrastructure Technology Advancement(KAIA), Ministry of Land, Infrastructure and Transportation of Korea(MOLIT), Korea Institute of Construction Technology(KICT), Korea Institute of Construction Engineering and Management(KICEM)
- PhD External Committee Member/Examiner: Seoul National University(South Korea), Yonsei University(South Korea), National Institute of Technology(India), Indian Institute of Technology Madras(India), University of New South Wales(Australia), RMIT University(Australia), University of Pretoria(South Africa), Hong Kong Polytechnic University(Hong Kong), University of The Witwatersrand (South Africa), SIIT, Thammasat University(Thailand), Singapore University of Social Sciences (Singapore)
- Advisory Board Member/External Reviewer for Academic Programs & Promotion: Kuwait Foundation for the Advancement of Sciences, Seoul National University, Central Queensland University, Aalto University, Finland
- Consultant for Private Companies: GS Engineering & Construction, DaeHan Steel, CH2M HILL, Worley Parsons, Bechtel, Merck, Zurich Insurance, Aberdeen, Shimizu, Hanmi Global, Samsung Electronics
- Invited/Keynote Speakers: Over 200 International Seminars/Conferences
- Editorial Board Member: Over 10 International Refereed Journals
- Reviewer: Over 80 International Refereed Journals, Over 20 Journal Special Issues & Book/Book Chapter Proposals
- Technical/Scientific Committee Members: Over 100 International Conferences
- Session Chair/Panellist: Over 20 International Conferences

PUBLICATIONS:

- [Google Scholar](#)
- [Scopus](#)

FULL CV AVAILABLE UPON REQUEST