PANGIL CHOI, Ph.D., P.E.
Assistant Professor, Department of Civil, Environmental, and Construction Engineering
Texas Tech University
Lubbock, Texas
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Professional Preparation

Ph.D. 2015 Texas Tech University, Civil Engineering
Ph.D. 2010 Kangwon National University, Civil Engineering
M.S. 2005 Kangwon National University, Civil Engineering
B.S. 2002 Kangwon National University, Civil Engineering

Professional Chronology

Assistant Professor, Civil Environmental, and Construction Engineering, Texas Tech University (2026 ~ Current)
Pavement Engineer/Forensic Engineer, Texas Department of Transportation (2019 –2026)
Senior Research Associate, TechMRT, Texas Tech University (2010 – 2019)
Adjunct Professor, Gangwon Provincial College (2010)
Senior Researcher, Daesang ENC (2008 – 2010)
Assistant Teacher, Kangwon National University (2006 – 2008)
Construction Engineer, Yu-Soo Construction Co., Ltd. (2001 – 2005)

Research Interests

Concrete pavement design and structural analysis
Concrete pavement service life modeling and performance prediction
Optimization of concrete pavement foundation and support systems
Nondestructive testing and infrastructure forensic evaluations
Multi-scale pavement performance evaluations
Deflection-based pavement structural analysis (FWD, TPAD, and TSD)

Honors/Awards

Outstanding Research Award, Korea Society of Civil Engineering (2010)
Outstanding Award for Research Paper Publication, Kangwon National University (2009)
Quiz Korea Scholarship from Korean Broadcasting System (2009)

Synergistic Activities/Committee Membership

Committee Member, AGC of Texas Concrete Paving Committee
State Representative (Texas), National Concrete Consortium (NC2),
Reviewer, Transportation Research Record: Journal of the Transportation Research Board (TRB)
Reviewer, International Journal of Pavement Engineering
Reviewer, ASCE Journal of Performance Constructed Facilities
Reviewer. International Journal of Pavement Research and Technology
Reviewer, Construction and Building Materials
Reviewer, Journal of The Korean Society of Civil Engineering
Reviewer, Applied Sciences [MDPI]
Reviewer, Infrastructures [MDPI]

Selected Publications (Last 5 years)

1. Jihyeon Yun, Shyaamkrishnan Vigneswaran, Moon-Sup Lee, Pangil Choi, Soon-Jae Lee (2023), Effect of Blending and Curing Conditions on the Storage Stability of Rubberized Asphalt Binders, Materials, 16(3)
2. Jihyeon Yun, Il-Ho Na, Pangil Choi, Bongjun Ji, Hyunhwan Kim (2023), Laboratory Evaluation of High-Temperature Properties of Recycled PMA Binders, Sustainability 15(17)
3. Heejun Lee, Niwesh Koirala, Pangil Choi, and Hoyoung Seo (2023), A Case Study on Distresses of Concrete Pavements Supported on a Retaining Wall, Applied Science 13(20)
4. Sungil Jeon, Mohammad Shakhawat Hossain, Seungyeon Han, Pangil Choi, Kyong-Ku Yun (2022), Self-Healing Characteristics of Cement Concrete containing Expansive Agent, *Case Studies in Construction Materials,* Vol 17
5. Fouzieh Rouzmehr, Pangil Choi, Jeong Hee Nam, Moon Won (2021), Improvements of quality assurance testing program for subgrade and base layer construction, Construction and Building *Materials,* Vol 310
6. Sung-Ill Jeon, Pangil Choi*, and Moon Won (2021), Punchout evaluations and classification of continuously reinforced concrete pavement to improve pavement design, *Road Materials and Pavement Design*, Vol 22, Issue 7, pp 1481-1499,

Selected Presentation (Last 5 years)

1. Pangil Choi (08/25/2026), Texas Concrete Pavement, 2026 Lubbock Concrete Pavement Workshop, Lubbock, Texas
2. Roberto Trevino Flores and Pangil Choi (08/07/2026), CRCP Basics, Annual ACI San Antonio Concrete Symposium (ACI 2nd Annual Symposium), San Antonio, Texas
3. Ruben Carrasco and Pangil Choi (05/14/2026), A Performance Based Update from PMIS and FWD, 2026 Concrete Conference, Austin, Texas
4. Roberto Rodriguez and Pangil Choi (05/14/2026), Whitetopping Project on FM 1405 – Beaumont District, 2026 Concrete Conference, Austin, Texas
5. Pangil Choi (05/13/2026), TxDOT Rigid Pavement Design and Policy, 2026 Concrete Conference, Austin, Texas
6. Pangil Choi (11/05/2025), Long-Life Concrete Pavement in Texas, El Paso, Texas
7. Pangil Choi (09/24/2025), Rigid Pavement Workshop (4-hr), Fort Worth, Texas
8. Pangil Choi (08/21/2025), An Update from TxDOT: Concrete Pavement Performance, San Antonio, Texas.
9. Pangil Choi (08/28/2024), CRCP Service Life Analysis in Texas, 13th ICCP & National Concrete Consortium (NCC), Minneapolis, Minnesota
10. Pangil Choi (04/10/2024), Reevaluation of CRCP Design Life in Texas, 2024 Concrete Conference, Austin, Texas
11. Pangil Choi (04/10/2024), TxDOT's Rigid Pavement Policy & Design Procedure, 2024 Concrete Conference, Austin, Texas
12. Pangil Choi and Ruben Carrasco (11/02/2022), Case Studies of Bridge Approach Slab (BAS) Evaluations & Recommendations, TxDOT MNT-TRF Conference, Galveston, Texas
13. Pangil Choi (07/26/2022), Evaluating Settlement and Voids Below Bridge Approach Slabs, 2022 TxDOT Bridge Workshop, Austin, Texas