

EDUCATION

Ph.D., Civil Engineering University of Arkansas, Fayetteville, AR August 2012
Dissertation: *Risk Analysis and Reliability Improvement of Mechanistic-Empirical Pavement Design*
M.S., Civil Engineering Southwest Jiaotong University, Chengdu, China July 2007
Thesis: *Relationship between Voids underneath Pavement Slabs and the Load Transfer Efficiency*
B.S., Civil Engineering Southwest Petroleum University, Chengdu, China July 2004
Graduation project: *Geometric Design and Pavement Structure Design for Roads around Zipingpu Dam*

EMPLOYEMENT

Associate Professor University of Wisconsin-Platteville, Platteville, Wisconsin Aug. 2021 to present
Assistant Professor University of Wisconsin-Platteville, Platteville, Wisconsin Aug. 2015 to Aug. 2021
Research Associate Louisiana Trans. Research Center, Baton Rouge, Louisiana Dec. 2012 to Aug. 2015
Engineer Intern Arkansas Department of Transportation, Little Rock, Arkansas Jan. – May 2012
Research Assistant University of Arkansas, Fayetteville, Arkansas Aug. 2007 to Aug. 2012

TEACHING EXPERIENCE

Construction Materials, Transportation Engineering, Pavement Design and Analysis, Pavement Maintenance & Rehabilitation, Introduction to Engineering Projects, Engineering Success Skills, Explore Engineering Summer Program, PCC TECH-I Certificate for the Highway Technician Certificate Program

FUNDED RESEARCH PROJECTS

1. John Kevern, Dan Zollinger, and Danny Xiao, *Timely and Uniform Application of Curing Materials*, Wisconsin Department of Transportation, WHRP 0092-22-03, Wisconsin Highway Research Program. 2022~2024. Grant: \$130,000
2. Danny X. Xiao, John Kevern, Hao Wang, Xiaming Shi, and Sam Owusu-Ababio, *Evaluating the Impact of Anti-Icing Solutions on Concrete Durability*, WHRP 0092-20-03, Wisconsin Department of Transportation, Wisconsin Highway Research Program. 2020~2022. Grant: \$150,000
3. Danny X. Xiao, John Kevern, Sam Owusu-Ababio, and Robert Schmitt, *Evaluation of Penetrating Sealers Applied to Saw Cut Faces in Concrete Pavement Joints*, WHRP 0092-18-01, Wisconsin Department of Transportation, Wisconsin Highway Research Program. 2017~2020. Grant: \$125,000
4. Danny X. Xiao, Sam Owusu-Ababio, and Robert Schmitt, *Evaluation of the Effects of Deicers on Concrete Durability*. WHRP 0092-17-03, Wisconsin Department of Transportation, Wisconsin Highway Research Program. 2016~2018. Grant: \$60,000
5. Zhong Wu, and Danny X. Xiao, *Development of DARWin-ME Guidelines for Louisiana Pavement Design*, FHWA/LA.11/551, Louisiana Transpiration Research Center, Baton Rouge, LA, 2012~2015.
6. Kevin D. Hall, Kelvin C.P. Wang, Project TRC-1003: *Local calibration of the Mechanistic-Empirical Pavement Design Guide (MEPDG) for Arkansas*, \$459,188, Funding source: Arkansas State Highway and Transportation Department. 2009~2011.

PUBLICATIONS

Peer-Reviewed Journals

1. Danny X. Xiao, John T. Kevern, Goran Adil, Sam Owusu-Ababio, (2021). Field Performance of Concrete Pavement Joints Protected by Silane Sealer: Case Study. *Journal of Performance of Constructed Facilities*, 35(6), 04021089.
2. Goran Adil, John T. Kevern, and Danny X. Xiao. "Influence of Penetrating Sealer on Performance of Concrete Joints." *ACI Materials Journal* 118.5 (2021): 65-74.
3. Danny X. Xiao and Sam Owusu-Ababio, *20 Years Performance of LTPP SPS-2 Sections in Wisconsin: Transverse Joints*, ASCE International Airfield and Highway Pavements Conference, Chicago, IL, July 21-24, 2019

4. Danny X. Xiao, Sam Owusu-Ababio, and Robert Schmitt, *Impact of Deicing and Anti-Icing Materials on Concrete Pavement Durability using Field Performance Data*, the 97th Annual Meeting of the Transportation Research Board, Washington D.C., Jan. 13-17, 2019.
5. Zhong Wu, Danny X. Xiao, and Zhongjie Zhang, Research Implementation of AASHTO Pavement ME Design in Louisiana, *Transportation Research Record: Journal of the Transportation Research Board*, No. 2590, 2016, pp. 1-9.
6. Kevin D. Hall, Danny X. Xiao, and Kelvin C.P. Wang, Calibration of the MEPDG for Flexible Pavement Design in Arkansas, *Transportation Research Record: Journal of the Transportation Research Board*, No. 2226, Transportation Research Board of the National Academies, Washington, D.C., 2011, pp. 135-141. (nominated for the Practice-Ready Paper Award).

Reports

1. Danny X. Xiao, Sam Owusu-Ababio, Robert Schmitt, and John Kevern, *Evaluation of Penetrating Sealers Applied to Saw Cut Faces in Concrete Pavement Joints*, Wisconsin Highway Research Program (WHRP) Project 0092-18-01 Final Report, Wisconsin Department of Transportation, Madison, WI, March 2020.
2. Danny X. Xiao, Sam Owusu-Ababio, Robert Schmitt, *Evaluation of the Effects of Deicers on Concrete Durability*, Wisconsin Highway Research Program (WHRP) Project 0092-17-03 Final Report, Wisconsin Department of Transportation, Madison, WI, June 2018.
3. Zhong Wu, and Danny X. Xiao, *Development of DARWin-ME Guidelines for Louisiana Pavement Design*, FHWA/LA.11/551, Louisiana Transpiration Research Center, Baton Rouge, LA, 2016.
4. Kevin D. Hall, Kelvin C.P. Wang, Danny X. Xiao, and Vu Nguyen, *Local Calibration of MEPDG: Phase I, Flexible Pavements*, University of Arkansas, Fayetteville, AR, 2010.

SERVICES

Peer Reviewer for Journals

1. ASCE: Journal Transportation Engineering, ISSN: 0733-947X (2012-present)
2. Construction and Building Materials, ISSN: 0950-0618 (2013-present)
3. International Journal of Pavement Engineering, ISSN: 1029-8436 (2015-present)
4. Transportation Research Record: Journal of the Transportation Research Board, ISSN: 0361-1981 (2010-present)

Affiliations

1. Member of Transportation Research Board (TRB) Rigid Pavement Design Committee (AKP20) [2022-2025]
2. Member of Transportation Research Board (TRB) Flexible Pavement Design Committee (AFD60) [2015-present]
3. Member of Wisconsin Highway Research Program (WHRP) Technical Oversight Committee, Flexible Pavements, Wisconsin Department of Transportation [2016-Present]

Community

1. Member of Platteville Airport Commission, May 2019 ~ present
2. Member of Library Board at the Platteville Common Council, Sep. 12, 2017 ~ May 1, 2019

HONORS AND AWARDS

1. Engineering Unleashed Fellow 2022, Kern Family Foundation
2. 2021-2022 University of Wisconsin-Platteville Excellent in Advising Award, May 2022
3. 2016-2017 University of Wisconsin-Platteville Excellent in Research/Scholarly Activities Award, 2018
4. ASCE ExCEEEd Fellowship, American Society of Civil Engineers, 2017
5. PCA Educational Foundation Fellowship, Portland Cement Association, 2016
6. NCAT Professor Training Fellowship, National Center for Asphalt Technology, 2012