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Department of Civil Engineering
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Areas of Expertise

Foundation design and analysis
Numerical modeling in geotechnical engineering
Soil testing/evaluation/improvement
Slope stability analysis

Education

Ph.D. in Geotechnical Engineering, The Pennsylvania State University, University Park, 1995
M.ENG. in Geotechnical/Structural Engineering, The Pennsylvania State University, University Park, 1991
B.S. in Civil and Hydraulic Engineering, Chung-Yuan Christian University, Taiwan, 1985

Experience

Assistant Professor/Associate Professor/Professor, Civil Engineering Department, Lamar University, Beaumont, Texas, 1998 Present
Project Engineer/Geotechnical Engineer, GTS Technologies, Inc. Harrisburg, PA / Fairfax, VA, 1995 1998
Graduate Assistant/Lab Instructor, The Pennsylvania State University, University Park, PA, 1990 1994
Project Engineer, South Link Railway Engineering Project Office, Department of Transportation, Pingtung, Taiwan 1987-1988
Civil Engineer, Giasan Engineering Project Office, Hualian, Taiwan, 1985 - 1987

Awards and Professional Membership

Chi Epsilon, National Civil Engineering Honor Society, James M. Robbins Excellence-in-Teaching National Award , 2003
Chi Epsilon, National Civil Engineering Honor Society, James M. Robbins Excellence-in-Teaching Award for the Southwest District, 2003
University Merit Award, Lamar University, 2003

Member, Sigma Xi (International Society of Scientific and Engineering Research),
1999 present

Member, Phi Kappa Phi (National Honor Society), 1993 present

Member, Chi Epsilon (National Civil Engineering Honor Society), 1990 - present

Selected Publications

Jasmin Kurt, T Thuy Minh Nguyen, Zachariah Payne, Paul Bernazzani, and Xianchang Li, and Mien Jao, Improvement of Dredged Material using a Novel Bioenzyme and Portland Cement, accepted for publication and presentation in GeoAsai7 & IGS First Young Engineers Conference, Oct. 31-Nov. 4, 2022

Md Ashraful Hoque, Chun-Wei Yao, Ian Lian, Jenny Zhou, Mien Jao, and Yu- Enhancement of Corrosion Resistance of a Hot Dip Galvanized Steel by Superhydrophobic Top Coating MRS Communications, The Materials Research Society, June 2022.

"Modelling Sediment Load in Storm Drain System of Southeast Texas Coastal Region" Journal of Irrigation and Drainage Engineering, Vol. 148, Issue 4, April 2022

Transport in Storm Drain System. *American Society of Civil Engineering
EWRI congress conference.*

Qin Qian, Benjamin Kolkmeier, Lin Su , Xing Wu, Mien Jao, Robert
Yuan, Keh-

MTEPC

conference November, 2017, Taipei

Sediment

Transport Mechanics in Coastal Plain Shallow-Grade Storm Drain

Beijian, China, June 4-6, 2017

Qin Qian, Mien Jao, Jeremiah Fox, Experimental Study on Shorline
Erosion using EM2 Geomodel. American Society of Civil Engineering

SPT, CPT and Texas Cone Penetration Test
Texas Section Spring Meeting, CD-ROM (10 pages).
S. Gudavalli, S. Gupta, N. Palla, M. Jao, M. Srinivasan, Xing Fang, S.

Meeting, CD-ROM (11 pages).
X. Fang, R. Shrestha, A. W. Groeger, J. Lin, and M. S. Kim. Simulation of
Impacts of Streamflow and Climate Conditions on Amistad
Journal of Contemporary Water Research and Education, Issue 137, pp.
14-20, September 2007.
M.S. Kim, M. Jao, A. J.

V. Zaloom, J. Lin, M. Jao, X. Fang, W. Chu, and S. Kamarajugadda,

Pennsylvania, prepared for Bureau of Land Management, U.S. Department of Interior, Washington, D.C., 1994.

M. C. Wang, M. Jao, and C. W. Hsieh, "Effect of Underground Cavity on Footing Interaction", Proceedings of 13th International Conference on Soil Mechanics and Foundation Engineering, Vol. 2 1994, New Delhi, India, pp. 575-578.

M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey, and D. A. Cornwell, "Engineering Behavior of Water Treatment Sludge", Journal of Environmental Engineering, Vol. 118, No. 6, November/December 1992, ASCE, pp. 848-864.

M. C. Wang, J. Q. Hull, and M. Jao, "Stabilization of Water Plant Sludge for Possible Utilization as Embankment Material", Transportation Research Board, No. 1345, 1992, pp. 36-43.

The Pennsylvania State university, University Park, Pennsylvania, 1991.

Funded Research Projects:

Co-PI: Finding an Efficient Solution to Managing Dredge Waste in Ports and Waterways Center for Advances in Port Management (CAPM), Lamar University, 02/01/2021 -08/30/2021, \$33,000, with Drs. Thuy Minh Nguyen, Zhe Luo, XianChang Li, Qin Qian and Paul Bernazzani
Co- Stabilization of Texas Dredge

06/30/2021, \$16,250 with Drs. Thuy Minh Nguyen, Zhe Luo, and Paul Bernazzani

Co-

Gas in Southeast

for Midstream Management and Science, Lamar University, 06/01/2020 08/30/2021, \$30,000 with Drs. Ping He and Clayton Jeffries.

Co-PI: Development of Sustainable and Energy Efficient Soil Bricks using Dredge Spoils Lamar REG, 09/01/2019 -08/30/2020, \$5,000

Co-PI Wake Wash in Sabine-

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by Lamar Research Enhancement Grant, 09/1/12-08/31/13, \$5,000. funded
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