

# XINYU LIU

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Statistical Principles in Engineering (Engineering Core Course,  
Offered to the Entire College)  
Design of Experiments

12. Development of a Non-Contact Metrology System for Dimension Measurement and Surface Characterization of Deep-Holes, Schlumberger Research Center, Phase I, \$134,661, 2008-2012.
13. Development of a Non-Contact Metrology System for Dimension Measurement and Surface Characterization of Deep-Holes, Schlumberger Research Center, Phase II, \$60,000, 2012-2014.
14. Hydraulic performance of Rectangular Deck Drains, PI, Dr. Qin Qian, Co-PIs, Dr. Mark Bourland; Dr. Xinyu Liu; Dr. Randall Charbeneau, Dr. Michael Barrett, Texas Department of Transportation, \$300,000, 09/2010~ 08/2012.
15. Development of Scanhead based Pico-second Laser Micro-machine Tool System, PI, Lamar University HEAF Funds, ~\$80,000, 2014~2017.
16. Facilitating Active Learning with Inverted Classroom, PI Zhou, J., Co-PIs: Aung, K., Zhu, W., & Liu, X., Lamar University, \$15,000, 2016.
17. Nanolubricant based Minimum Quantity Lubrication Machining for Sustainable Manufacturing”, PI, Lamar Research Enhancement Grant, \$5,000, 2010~2011
18. Exploratory Study of Cost-Effective Hybrid Micromanufacturing Processes for Bipolar Plates of Miniature Fuel Cell, PI, Lamar Research Enhancement Grant, \$5,000, 2008-2009.

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University Merit Award, Lamar University, 2011 (one of the three awardees campus wide)  
 Several Journal articles were ranked as top 10 most downloaded articles in the ASME Journal of Manufacturing Science and Engineering; one of them ranked 1<sup>st</sup> for three consecutive months.

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### Book Chapter

- [1] Mason, D. R., Abernathy, L. K., Abshire, S. R., Cummings, C. D., Liu, X., (2012). “Evaluation of an Online Technology Leadership Master’s Program”, In J. Tareilo and B. Bizzell (Eds.), Handbook of online instruction and programs in educational leadership (pp. 183-207). Ypsilanti, MI: NCPEA Press.

### Peer Reviewed Journal Papers

- [2] Qin Qian, Mengjie He, Frank Sun, Xinyu Liu (2024). “Monitoring and Evaluation of the Water Quality of the Lower Neches River, Texas, USA”, Water Science and Engineering, Vol 17, issue 1, pp 21-32.
- [3] Li, G., Li, Y., Craig, B., & Liu, X. (2022). Investigating the effect of contextual factors on driving: An experimental study. Transportation Research Part F: Traffic Psychology and Behaviour, 88, 69-80.
- [4] Weihang Zhu, Xuejun Fan, Nicholas Brake, **Xinyu Liu**, Xianchang Li, Jiang Zhou, Dorothy Sisk and Julia Yoo (2018) “Engineering Design and Manufacturing Education through Research Experience for High School Teachers”, Procedia Manufacturing, Vol 26, pp 1340-1348.
- [5] **Xinyu Liu** and Weihang Zhu (2017), “Development of a Fiber Optical Occlusion Based Non-Contact Automatic Tool Setter for a Micro-Milling Machine”, Robotics and Computer Integrated Manufacturing, 43, 12-17, doi:<http://dx.doi.org/10.1016/j.rcim.2016.04.002>.

- [6] Jiang Guo, Haixiang Song, Hu Liu, **Xinyu Liu**, Chunjia Luo, Xin Zhang, Jie Kong, Zhanhu Guo, Yanrong Ren, Tao Ding, Mojammel Khan, D. P. Young, “Polypyrrole-interface-functionalized nano-magnetite epoxy nanocomposites as electromagnetic wave absorber with enhanced flame retardancy”, *Journal of Materials Chemistry C*, 5(22), 2017.
- [7] Qin Qian, **Xinyu Liu**, Michale E. Barrett and Randall J Charbeneau (2016), “Physical Modeling on Hydraulic Performance of Rectangular Bridge Deck Drains”, *Water*, 8(2), 67; doi:10.3390/w8020067.
- [8] **Xinyu Liu** and Shreyas Shashidhara (2016) “Experimental Investigation of the Tool Wear in













