



# Transform

UNIVERSITY OF CENTRAL OKLAHOMA

UCO and the College of Mathematics and Science challenge students to embrace learning by providing transformative educational experiences in the classroom and beyond. Our focus is centered on students engaging in research with Central faculty while creating a culture of learning, leading and serving.

Students Khiet Tran, Kara Clark and Jordan Johnson discuss their research with Dr. Gang Xu, Assistant Professor in the Department of Engineering and Physics. Dr. Xu's research interests span subcellular, cellular, and developmental biomechanics. His expertise involves the integration of experimental and computational mechanics to investigate biomechanical principles that are intrinsic to fundamental problems in biology and medicine. He and his students are currently studying the cellular and subcellular biomechanics of cilia and flagella, organelles whose motility and mechanosensory function play a central role in development, health, and disease. His research is supported by CURE-STEM, the UCO Office of Research and Grants, and the National Science Foundation. By getting involved in research, Dr. Xu's research students deepen their transformative learning experience and practice how to use their knowledge learned from the classroom settings to solve real-world problems.

For more information, please contact Mark McElreath, Development Manager at (405) 974-2770 or visit us online at [cms.uco.edu](http://cms.uco.edu).



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