

How biomechanics is getting bigger by going smaller

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By observing the kinematics alterations from the norm and by using the reading of EMG patterns we're able to see the big picture of the neuro-musculoskeletal conditions lying underneath within a patient; however, to 'get bigger' or new other words, to see more, you must get smaller. Single cell and single molecule research is the best and most practical way to do so. Unfortunately, many of the techniques for seeing the biomechanics of single cells and single molecules are still experimental and in their early infancy, yet the readings and the potential are beyond promising.

Speaker Biography

Tyler Adam Martinez studies at the University of North Texas in biomedical engineering, and specializes in biomechanics. He started engineering at the age of 14 and continued to experiment, research, and test medical devices for the better part of half a decade. His skills in MATLAB, C, and LabVIEW is endorse by Dr. Porter, the university's instructor on Biocomputing. He oversaw the scheduling of BMEN club and is held in high regards amongst all the club officers. He as a person with autism, see his greatest accomplishment as motivating and inspiring others with autism to take on roles in STEM fields.

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