





#URBME PRESENTATIONS @ #BMES2024



Rebecca Irwin Visiting Professor Joining UR BME in July 25

FRI



Whasil Lee Assistant Professor



Martha J. Gdowski Associate Professor



Yeidi N. Yuja Vaquiz Undergraduate Student



Mara Lanis PhD Student Johns Hopkins University



Alumni, BS, 2017



Xiang Tang Undergraduate Student



Christina I. Kyriacou Undergraduate Student





Alexandra Trzpis Undergraduate Student



Hong Zhang Undergraduate Student



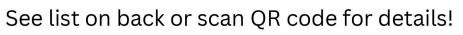
Anastasiia Rudaeva **Undergraduate Student** THU



Lila Pender Undergraduate Student



Julia Rothschild Undergraduate Student







Yimei Du Undergraduate Student



Tram Nguyen PhD Student Johns Hopkins University



#URBME @ #BMES2024!

Date & Time	Presenter	Title / Affiliation	Туре	Title
Thursday, Oct. 24 8:45 -9:00 AM Room 339	Rebecca Irwin	Faculty (Visiting) Joining UR BME in July 2025	Talk, Orthopedic and Rehab- ilitation Engineering: Articular Cartilage, Meniscus, and Joints	Delayed lubricin injection improves cartilage repair in an in vivo rabbit osteo-chondral defect model
Thursday, Oct. 24 10:00–11:00 AM Exhibit Hall E, F & G	Lila Pender	Undergraduate Student	Poster L2, Tissue Engineering - Poster Session A	Composite Tissue Engineered Approach Based on Microfiber Scaffolds to Resist Hydrogel Contraction
Thursday, Oct. 24 10:00–11:00 AM Exhibit Hall E, F & G	Alexandra Trzpis	Undergraduate Student	Poster C6, Biomaterials - Poster Session A	Characterization of Extracellular Matrix Obtained from Cell-Based Hollow Fiber Membranes
Thursday, Oct. 24 10:00–11:00 AM Exhibit Hall E, F & G	Tram Nguyen	Alumni, BS '22	Poster M13 Biomanufacturing- Poster Session A	3D-printed magnesium isotropic porous scaffolds via multi-material additive manufacturing for bone tissue engineering
Thursday, Oct. 24 2:45 – 3:45 PM Exhibit Hall E, F & G	Xiang Tang	Undergraduate Student	Poster D9 Biomechanics - Poster Session B	Differential expression and functional roles of Piezo1 in articular condyle medial and lateral cartilage in situ
Thursday, Oct. 24 2:45 – 3:45 PM Exhibit Hall E, F & G	Hong Zhang	Undergraduate Student	Poster G1 , Biomedical Imaging and Instrumentation - Poster Session B	Development of an Experimental Platform to Test Integrated Diffuse Correlation Tomography and Ultrasound Probes for Breast Cancer Imaging
Friday, Oct. 25 8:30 -10:00 Room 343	Whasil Lee	Faculty (Primary) Assitant Professor	Platform Session Biomechanics - Platform Session	Cellular and Molecular Mechanobiology II
Friday, Oct. 25 10:00 - 11:00 AM Exhibit Hall E, F & G	Maris Lana	Alumni, BS '22	Poster N12 - Biomaterials - Poster Session C	Investigating Co-Activation of CD4+ and CD8+ T-cells Using an Artificial Lymph Node
Friday, Oct. 25 3:30 – 4:30 PM Exhibit Hall E, F & G	Johann Kintzel	Undergraduate Student	Poster D7 Biomechanics - Poster Session D	Mechanical susceptibility of chondrocytes by Piezo1 modulators and inflammatory cytokines in situ
Friday, Oct. 25 3:30 – 4:30 PM Exhibit Hall E, F & G	Manuela Montes de Oca	Undergraduate Student	Poster E1 Biomechanics - Poster Session D	Modeling of Sensors Used to Validate FE models of Articular Joint Contact: A Comparison of Simulated Hertz Contact
Friday, Oct. 25 3:30 – 4:30 PM Exhibit Hall E, F & G	Anastasiia Rudaeva	Undergraduate Student	Poster G8 Biomedical Imaging and Instru- mentation, Poster Session D	Software Development For Fast and Accurate Cell Identification Across Multiple Imaging Modalities
Friday, Oct. 25 3:30 – 4:30 PM Exhibit Hall E, F & G	Christina I. Kyriacou	Undergraduate Student	Poster H10 Cardiovascular Engineering - Poster Session D	Investigating the Cooperation Between Endothelin B Receptor and Heparan Sulfate in Regulating Endothelin-1 Expression Using qPCR
Friday, Oct. 25 3:30 – 4:30 PM Exhibit Hall E, F & G	Yimei Du	Undergraduate Student	Poster J19 Nano and Micro Technologies - Poster Session D	Role of apolipoprotein E isoforms in blood-brain barrier stability
Friday, Oct. 25, 3:30 – 4:30 PM Exhibit Hall E, F & G	Faizah M. Ahmmed	Undergraduate Student	Poster L19 Women's Health - Poster Session D	Mechanical stress response of fibroblast cells on Vulvar Lichen Sclerosus patients
Saturday, Oct. 26 8:30 - 8:45 AM Room 315	Rebecca Irwin	Faculty (Visiting) Joining UR BME in July 2025	Talk - Neural Engineering Engineering - Neuroimaging	Cerebral Focal Stroke Causes Increased Incidence of Non-Flowing Capillaries Hundreds of Micrometers into the Adjacent Microvasculature
Saturday, Oct. 26, 10:00 - 11:00 AM Exhibit Hall E, F & G	Rebecca Irwin	Faculty (Visiting) Joining UR BME in July 2025	Poster AA5 - Orthopedic and Rehabilitation Engineering, Poster Session E	Medial cartilage defect drives matrix and cell pathology in compartment-matched meniscus
Saturday, Oct. 26, 10:00 - 11:00 AM Exhibit Hall E, F & G	Yeidi N. Yuja Vaquiz	Undergraduate Student	Poster F9, Biomedical Imaging and Instrumentation - Poster Session D	Ultrasound and Photoacoustic Guided Gastrostomy to Prevent Colonic Injury
Saturday, Oct. 26, 10:00 - 11:00 AM Exhibit Hall E, F & G	Julia Rothschild	Undergraduate Student	Poster K4 Nano and Micro Technologies - Poster Session E	Testing of nanoporous silicon-nitride membrane ultrafiltration for hemodialysis
Saturday, Oct. 26 12:45 -1:00 PM Room 340	Martha J. Gdowski	Faculty (Secondary) Associate Professor	Talk - Neural Engineering Engineering - Neuroimaging	Empowering Biomedical Engineers: Advancing Human Anatomy Education through Experiential Learning with Medical Devices