

Regional Australasian Biomechanics Conference 2021

ABC Auckland

April 12, 2021 | 9:30 am to 3:15 pm

University of Auckland, Grafton campus, 85 park road (building 505) amphitheater 1

Times	Presenter	Title
9:30 - 9:40	Julie Choisne	Welcome
Musculoskeletal Modeling session		
Session chairs: Justin Fernandez and Marco Schneider		
9:40 - 11:00	Nikita Ghosh	Lumbar spine shape variation among healthy adult population
	Reza Arjmandi	Finite Element Modelling of bony spicules in the cartilage-bone interface
	Nynke Rooks	A comparison of five computational knee joint models and their model development workflow
	Laura Carman	Population shape model of children lower limb's bones
	Salim Bin Ghouth	Musculoskeletal Shape Modelling in Cerebral Palsy Paediatrics
11:00 - 11:30	Morning tea break	
Sports and clinical biomechanics session		
Session chairs: Angus McMorland and Kelly Sheerin		
11:30 - 12:45	Marco Schneider	ACL attachment sites are dependent on bone shape.
	Maryam Tayebi	Does playing contact sports alter your brain?
	Mahsa Momtahan	Development of a lightweight controllable semi-passive assistive ankle-foot exoskeleton
	Hamid Abbasi	Automated Infant Movement Analysis for Early Diagnosis of Cerebral Palsy using Deep-Learning schemes
	Ricardo Florez	Walking and Muscle Development in Children: Computational and Medical Analysis
12:45 - 14:00	Lunch break	
Orthopaedic and Tissue session		

Session chairs: Vickie Shim and Ashvin Thambyah		
14:00 - 15:15	Mousa Kazemi	Developing a computational framework for predicting patient-specific high tibial osteotomy (HTO)
	Emma Brown	The mechanical significance of the zonally differentiated collagen network of mature AC in response to tissue swelling and curling
	Josh Workman	Utilising reference probe indentation to detect early OA
	Meeghage Randika Perera	Fascia imaging
	Vonne van Heeswijk	Traumatic impact loading of flexed ovine lumbar spine segments
15:15 to	Networking session TBD	