

| Abstract ID | Title | Corr Author | First Author | Poster Category | Date | Begin time | End time | Poster Identifier |
|-------------|---|--------------|--------------|-----------------|------------------|------------|------------|-------------------|
| 223 | Hip And Knee Movement Patterns Predict Kinetic Risk Factors Associated With Running Related Injuries | Aljohani | Aljohani | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 001 |
| 21 | Determination Of Biomechanical Influences Of Increased Femoral Anteversion (Twisted Leg) On Running For Developing Individual. | Apti | Apti | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 002 |
| 40 | Effect Of Obesity On Trunk Muscle Activity During One-Handed Carrying | Badawy | Badawy | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 003 |
| 326 | Step Width Changes With Increased Bimanual Load Regardless Of Sex | Baudendistel | Baudendistel | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 004 |
| 305 | Muscle-Tendon Unit Parameters Affect Simulation Results During Walking | Baxter | Baxter | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 005 |
| 131 | Females Are More Mechanically Efficient Than Males | Bennett | Bennett | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 006 |
| 672 | Knee Loads During Running At Commonly Prescribed Running Paces: A Case Study | Brindle | Brindle | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 007 |
| 375 | Sex Comparison Of Post-Arthroscopy Gait Mechanics For Femoroacetabular Impingement Syndrome | Brown | Brown | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 008 |
| 606 | Sex Differences Persist Across Gait Speeds | Bruening | Bruening | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 009 |
| 122 | Transitional Movements With Body Borne Load Increases Ankle Work | Cameron | Cameron | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 010 |
| 67 | Old And Young Adults Demonstrate Similar Muscle Co-Constrictions During Walking | Pal | Chandran | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 011 |
| 97 | Older Adults Overcome Their Deficits To Young Adults When Propulsive Demands Of Walking Are Increased To Their Maximum | Conway | Conway | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 012 |
| 190 | Modulation Of Non-Linear Stiffness In The Foot-Shoe Complex During Running | Day | Day | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 013 |
| 196 | Validity Of Pressure-Measuring Insoles In Quantifying Center Of Pressure | DeBerardinis | DeBerardinis | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 014 |
| 318 | Elliptical Estimation Of Plantar Contact Areas During Walking | DeBerardinis | DeBerardinis | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 015 |
| 211 | Energy Return In Prosthetic Feet For High Activity Users During Weighted And Unweighted Walking | Dellamano | Dellamano | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 016 |
| 670 | Energetics And Stability Of Running On Rough Terrains | Dhawale | Dhawale | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 017 |
| 525 | Kinetic Analysis Of Rodent Gait After Volumetric Muscle Loss Injury And Treatment | Russell | Dienes | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 018 |
| 507 | Footstrike Pattern Effects On Sagittal Knee Mechanics In Runners With Transtibial Amputation: Initial Observations | Djafar | Djafar | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 019 |
| 600 | Altered Knee Loading Patterns Observed In Contralateral Limb During Medial Knee Thrust | Cortes | Eddo | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 020 |
| 634 | Gait Initiation: Understanding Biomechanics Of Non-Steady Modulations | Ehtemam | Ehtemam | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 021 |
| 49 | Sex And Limb Impact Lower Limb Biomechanics During Loaded Single Leg Cuts | Fain | Fain | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 022 |
| 621 | Destabilization After Expected And Unexpected Discrete Perturbations During Overground Gait | Fino | Fino | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 023 |
| 484 | An Initial Look At Gait Stability During Over-Ground Walking In Cancer Patients | Fischer | Fischer | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 024 |
| 565 | Misadventures Of A Biomechanist: A Closer Look At Kinematics And Ultrasound Of A Hamstring Injury | Infantolino | Fox | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 025 |
| 571 | Running Training Alters Limb Stiffness And Lowers The Cost Of Locomotion | Polk | Fox | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 026 |
| 486 | "Swing Phase Kinematics And Prospective Running Injury Development" | Gruber | Frankston | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 027 |
| 412 | Knee Dynamics And Running Cadence: A Controlled Case Study | Fritz | Fritz | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 028 |
| 83 | A Pipeline For Analyzing Motion Capture Data Using Opensim | Frisch | Gallo | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 029 |
| 141 | Running Kinematics At Self-Selected And Prescribed Speeds In Adolescent Runners | Garcia | Garcia | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 030 |
| 664 | Marathon Training And Rpe: Can Self Evaluation Lead To More Healthy Runners At The Starting Line? | Gedlinske | Gedlinske | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 031 |
| 240 | The Effects Of A Carbon Fiber Shoe Insole On Running Mechanics | Gregory | Gregory | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 032 |
| 494 | Running Gait Complexity Increases Before Injury In Collegiate Runners | Gruber | Gruber | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 033 |
| 176 | Coordination And Variability Differ By Years Of Running Experience | Hafer | Hafer | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 034 |
| 502 | Examining The Minute To Minute Predictability Of Walking Distance And Local Joint Stability Across Multiple Surfaces | Hamer | Hamer | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 035 |
| 65 | Chaotic Behavior Of Peak Ground Reaction Forces During Gait Delayed Time To Fixation Of An Intra-Articular Fracture Does Not Cause Additional Limb Dysfunction In A Large Animal Model Of Post-Traumatic Osteoarthritis | Hauselle | Hauselle | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 036 |
| 347 | Quantifying Changes In Gait Following Intra-Articular Fracture In A Large Animal Model Of Post-Traumatic Osteoarthritis | Heck | Heck | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 037 |
| 461 | Quantifying Changes In Gait Following Intra-Articular Fracture In A Large Animal Model Of Post-Traumatic Osteoarthritis | Heck | Heck | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 038 |
| 552 | Hip And Knee Forces For Transtibial Amputees In Gait And Cycling | Heyde | Heyde | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 039 |

| | | | | | | | | |
|-----|---|-------------|-------------|-----------------|------------------|------------|------------|--------|
| 473 | Effect Of Foot Position On Knee Mechanics In Obese Young Adults | Holmes | Holmes | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 040 |
| 561 | Running Economy And Marathon Racing Shoes | Hunter | Hunter | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 041 |
| 433 | Gait Biomechanics Early After Aclr Do Not Predict Medial Compartment Joint Space Width 5 Years After Aclr | Johnson | Johnson | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 042 |
| 674 | "Comparison Of Gait Kinematics And Spatiotemporal Measures Between Lock And Pin And A New Vacuum Suspension System In Transtibial Amputees | kellems | kellems | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 043 |
| 402 | Dynamic Structure Of Variability Of Joint Angles In User-Driven Treadmill Walking | Kempski | Kempski | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 044 |
| 252 | Do People With A Transtibial Amputation Have A Rougher Ride On Uneven Terrain? | Kent | Kent | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 045 |
| 495 | Walking With Added Mass Influences Ankle And Mid-Tarsal Joint Quasi-Stiffness | Kern | Kern | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 046 |
| 481 | Effect Of Pediatric Obesity On Patellofemoral Joint Contact Force During Walking | Lerner | Kim | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 047 |
| 158 | Motor Learning Response To Split-Belt Treadmill Walking After Non-Traumatic Amputation | Kline | Kline | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 048 |
| 439 | Propulsion Force Symmetry During Walking In Patients With Peripheral Artery Disease | Leutzinger | Leutzinger | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 049 |
| 632 | Scaling Force In The Flexor Digitorum Longus Tendon Using A Passive Implanted Mechanism: A Parameter Sensitivity Analysis | Ling | Ling | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 050 |
| 545 | Females And Males Use Different Hip Mechanics In Response To Military-Relevant Loads | Loverro | Loverro | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 051 |
| 217 | Emg-Driven Opensim Analysis Of Knee Forces In Normal Weight, Overweight And Obese Subjects During Gait, Cycling And Elliptical Exercises | Klisch | Marino | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 052 |
| 630 | Acute Effects Of Distance Running On Healthy Femoral Condyle Cartilage Thickness And Volume: A Pilot Study | Mason | Mason | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 053 |
| 563 | A Comparison Of Running Mechanics In Marathon Racing Shoes | McCleod | McCleod | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 054 |
| 179 | Frictional Response Of Multiple Slip-Resistant Flat And Beveled Shoes To Normal Loading | Moghaddam | Moghaddam | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 055 |
| 72 | Estimation Of Dynamic Stability Of Fallers And Non-Fallers Utilizing Long-Term (3-Days) Wearable Sensor Data | Moon | Moon | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 056 |
| 460 | Teaching Older Adults How To Fall Safely | Moon | Moon | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 057 |
| 360 | Relationship Between Arch Structure, Mobility And Lower Extremity Injury In Runners | Morgan | Morgan | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 058 |
| 661 | Discrepancies In Kinematics And Dynamics Of Mild And Severe Slipping | Beschorner | Nazifi | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 059 |
| 258 | The Influence Of Spinal Cord Injury On Long-Term Gait Variability | Rouhani | Noamani | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 060 |
| 501 | Examining The Effects Of Leg Stiffness On Vertical Ground Reaction Forces Using A Dual Spring Loaded Inverted Pendulum Model | O'Brien | O'Brien | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 061 |
| 76 | Pre-Operative Hamstring Length And Velocity Do Not Explain The Reduced Effectiveness Of Repeat Hamstring Lengthening To Correct Crouch Gait In Children With Cerebral Palsy | Mueske | Osborne | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 062 |
| 414 | Knee Adduction And Femoral Cartilage Characteristics In Obese And Normal Weight Adults | Pamukoff | Pamukoff | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 063 |
| 269 | Modulation Of Foot Mechanical Work During Walking With Added Mass | Papachatzis | Papachatzis | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 064 |
| 384 | The Influence Of Arch Type And Walking Speed On Peak Plantar Pressures | Paquette | Paquette | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 065 |
| 246 | Alterations In Lower-Extremity Frontal Plane Joint Moment Due To Experimental Knee Pain And/Or Effusion During Walking | Park | Park | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 066 |
| 401 | The Relationship Between The Foot's Mechanical Energy And Heat | Patterson | Patterson | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 067 |
| 679 | Rate Of Force Development Of The Knee Extensor Moment During Loading Phase Of Gait Is Not Associated With Physical Function | Pimentel | Pimentel | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 068 |
| 576 | Average And Maximal Loading Rates During Hill Running Are Greater On A Soft, Grass Surface Compared To A Hard, Gravel Surface | Porter | Porter | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 069 |
| 483 | The Influence Of Body Size, Sex, And Gait Speed On Plantar Flexor Moment And Propulsive Force | Post | Post | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 070 |
| 442 | Medial And Lateral Knee Joint Contact Forces While Walking At Different Speeds | Cortes | Prebble | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 071 |
| 658 | Comparison Of Socket Suspension Systems During Stair Ascent In Individuals With Transtibial Amputation | Rentuma | Rentuma | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 072 |
| 524 | The Influence Of Localized Knee Fatigue On Lower Limb Dynamics During Walking | Robey | Robey | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 073 |
| 555 | Haptic Feedback During Stair Descent | Rokhmanova | Rokhmanova | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 074 |
| 366 | Walking With Visual Cueing Affects Cortical Hemodynamics | Rowen | Rowen | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 075 |
| 598 | Comparison Of Three-Dimensional Ankle And Foot Kinematics Between Leardini And Oxford Multi-Segment Foot Models In Active, Healthy Elders | Alderink | Schoen | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 076 |
| 534 | Determination To Subjective Electromyographic Onset | SchorNSTein | SchorNSTein | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 077 |
| 39 | Sex Impacts Frontal Plane Grf And Knee Biomechanics During Drop Landing With Body Borne Load | Seymore | Seymore | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 078 |

| | | | | | | | | |
|-----|--|----------------|----------------|--------------------------|------------------|------------|------------|--------|
| 167 | Sagittal Pelvic Motion Of Patients With Unilateral, Transtibial Amputations Compared To Healthy Military Controls While Running Overground | Sharp | Sharp | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 079 |
| 567 | Do Athletes Maximize Ground Reaction Forces And Power When Accelerating? | Sheets | Sheets | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 080 |
| 177 | Effect Of Age And Body Mass Index On Mobility In Middle-Aged To Older Adults With And Without Lower Limb Amputation | Shih | Shih | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 081 |
| 363 | Effect Of Different Step Widths During Gait Reveal Altered Trunk Kinematic Coordination During Low Back Pain Remission | Shih | Shih | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 082 |
| 614 | The Influence Of Acl Retention In Total Knee Replacement On Walking And Stair Climbing Mechanics | Simon | Simon | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 083 |
| 112 | Knee Angle And Axes Crosstalk Corrections In Gait, Bicycling And Elliptical Exercises Using Principal Component Analysis | Skaro | Skaro | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 084 |
| 627 | Can Changing Running Shoes Immediately Reduce The Risk Of Tibial Stress Fractures? | Rylander | Tavares | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 085 |
| 436 | Applied Gait Pattern Influences Spatial Changes In Contact Stress Calculated For Dysplasia Patients Following Periacetabular Osteotomy | Thomas | Thomas | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 086 |
| 588 | The Impact Of Mechanical Load Carriage On Gait Mechanics In An Agrarian Sample | Trentadue | Trentadue | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 087 |
| 583 | Long-Range Correlation In Human Joint-Angle Variability During Walking | Martin | Tsang | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 088 |
| 530 | Knee Angles With Soft Tissue Artifact Correction For Normal Weight, Overweight And Obese Subjects In Gait And Cycling | Tucker | Tucker | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 089 |
| 568 | The Benefit Of Different Marathon Shoes Through Various Running Mechanics | Valentine | Valentine | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 090 |
| 52 | Sex Differences In Gluteal Muscle Forces During Running | Vannatta | Vannatta | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 091 |
| 317 | The Effect Of Grade On Joint Mechanics During Downhill Running In Female Distance Runners | Wells | Wells | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 092 |
| 48 | Gait Modification When Decreasing Double Support Percentage Comparison Of Patient-Reported Outcomes And Performance-Based Outcome Measures Over The Return To Run Program For Lower Extremity Injuries | Williams | Williams | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 093 |
| 450 | Knee Joint Loading During Gait In Independently Ambulatory Children With Spina Bifida | Wingate | Wingate | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 094 |
| 180 | Comparing Two Measures Of Knee Valgus Angle | Mueske | Wren | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 095 |
| 388 | The Contribution Of Frontal Hip Power To Slope Walking | Zabala | Wright | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 096 |
| 261 | Wide Step Width Alters Knee Loading During Stair Descent In Obese Participants | Yang | Yang | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 097 |
| 88 | Independent Metabolic Contributions Of Support Body Weight And Accelerating Body Mass During Walking On Uphill/Downhill Slopes | Yocum | Yocum | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 098 |
| 163 | Effect Of Environment On Gait And Gaze During Walking In Older Adult Fallers | Zai | Zai | Walking/Running | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 099 |
| 282 | Regular Running In Midlife May Be Protective Of Plantarflexor Function After A Prolonged Walk | Zukowski | Zukowski | Walking/Running | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 100 |
| 490 | Lower Limb Joint Angle Variance As A Function Of Obstacle Height During Obstacle Crossing | Casto | Casto | Competition - Doctoral A | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 101 |
| 409 | Estimating Gait Events And Locomotion State With A Beta Process Auto Regressive Hidden Markov Model | Cui | Cui | Competition - Doctoral A | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 102 |
| 408 | A Novel Approach For Evaluating Compensatory Gait Strategies Using Mechanical Energetics | Donahue | Donahue | Competition - Doctoral A | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 103 |
| 185 | Inconsistencies In Staircase Dimensions Impact Upon Stair Climbing Safety | Ebrahimi | Ebrahimi | Competition - Doctoral A | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 104 |
| 454 | A Full-State Controller For The Simple Inverted Pendulum Biped Derived From Human Perturbation Experiments | Francksen | Francksen | Competition - Doctoral A | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 105 |
| 570 | Effects Of A New Adaptive Ankle Prosthesis On Level And Sloped Walking | Joshi | Joshi | Competition - Doctoral A | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 106 |
| 334 | Reliability And Feasibility Of An Inertial Measurement Unit Based Dual-Task Gait Balance Assessment | Lamers | Lamers | Competition - Doctoral A | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 107 |
| 1 | Exploring Movement Variability And Eeg Correlates During Motor Learning | Chou | Pitt | Competition - Doctoral A | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 108 |
| 100 | Gait Variability To Predict Motor Learning Of A Novel Motor Task | Shattuck | Shattuck | Competition - Doctoral A | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 109 |
| 193 | Real-Time Music-Based Biofeedback To Reduce Impact Loading During Over-Ground Running | Ulman | Ulman | Competition - Doctoral A | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 110 |
| 239 | Load Effects On Performance For Example Obstacles In An Outdoor Course | Van den Berghe | Van den Berghe | Competition - Doctoral A | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 111 |
| 440 | Changes In Dynamic Motor Control Following Neurorehabilitation For Traumatic Brain Injury: Treadmill Vs Overground Walking | Vitali | Vitali | Competition - Doctoral A | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 112 |
| 620 | On-Site Reactive Balance Training Among Residents Of Retirement Communities | Acuna | Acuna | Competition - Doctoral B | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 113 |
| 356 | Patients With Medial Knee Oa Vary In The Kinetic Response To Plantar Pressure-Based Feedback | Aviles | Aviles | Competition - Doctoral B | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 114 |
| 539 | Cervical Spine Biplanar Fluoroscopy: Automated Shape-Matching Algorithm Validation | Wimmer | He | Competition - Doctoral B | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 115 |
| 325 | The Effect Of Scapulothoracic Upward Rotation On Subacromial Proximities | Ellingson | Kage | Competition - Doctoral B | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 116 |
| 191 | | Lawrence | Lawrence | Competition - Doctoral B | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 117 |

| | | | | | | | | |
|-----|---|---------------|---------------|-----------------------------------|------------------|------------|------------|--------|
| 444 | Changes In Hip Mechanics During Gait Modification To Reduce Knee Adduction Moment | Cortes | Lindsey | Competition - Doctoral B | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 118 |
| 549 | Comparison Of Joint Kinetics Using Common Models For Baseball Pitching | McNally | McNally | Competition - Doctoral B | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 119 |
| 339 | L5/S1 Joint Load Estimation During Lifting Using A Deep Learning Based Method | Mehrizi | Mehrizi | Competition - Doctoral B | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 120 |
| 532 | Gait Asymmetries 6 Months Post-Aclr Associate With Inter-Limb TIRho Ratios 12-Months Post-Aclr | Pfeiffer | Pfeiffer | Competition - Doctoral B | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 121 |
| 438 | Running-Specific Prosthetic Model Affects Top Sprinting Speed In Athletes With Unilateral Transtibial Amputations Longitudinal Changes In Cartilage Composition Are Associated With Abnormal In Vivo Knee Mechanics Following Acl Reconstruction | Southern | Southern | Competition - Doctoral B | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 122 |
| 432 | Estimates Of Achilles Tendon Moment Arm With Axis Of Rotation Determined From Ankle Motion Versus Anatomical Landmarks | Vignos | Vignos | Competition - Doctoral B | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 123 |
| 394 | Finger Muscles Injected With Botulinum Toxin Demonstrate Increased Passive Stiffness And Decreased Passive Range Of Joint Motion In Individuals With Chronic Hemiparetic Stroke | Piazza | Wade | Competition - Doctoral B | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 124 |
| 646 | Older Adults Reverse Their Distal-To-Proximal Redistribution Using Biofeedback | Binder-Markey | Binder-Markey | Competition - Doctoral C | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 125 |
| 302 | Triceps Surae Muscle-Subtendon Interaction Differs Between Young And Older Adults | Browne | Browne | Competition - Doctoral C | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 126 |
| 129 | Does Fatigue Affect Wrist Kinematics During A Repetitive Pick-And-Place Task? | Clark | Clark | Competition - Doctoral C | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 127 |
| 546 | Pathological Knee Joint Condition In Children With Cerebral Palsy Is Associated With The Active State Muscular Mechanics Rather Than Passive | DeDecker | DeDecker | Competition - Doctoral C | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 128 |
| 379 | How Does Achilles Tendon Twisting Influence Strain And Energy Storage? | Ates | Kaya | Competition - Doctoral C | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 129 |
| 675 | Post-Operative Function And Muscle Modules During Gait At 6 And 24 Months Following Total Knee Arthroplasty | Knaus | Knaus | Competition - Doctoral C | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 130 |
| 368 | Post-Stroke Walking Mechanics Using A Speed-Adaptive Myoelectric Exoskeleton Controller | Koehn | Koehn | Competition - Doctoral C | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 131 |
| 377 | Evaluating The Postural Ergonomics Of Ophthalmologists Using Kinematic Motion Analysis And Electromyography | McCain | McCain | Competition - Doctoral C | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 132 |
| 466 | In Vivo Relationship Between Joint Stiffness, Joint-Based Estimates Of Muscle Stiffness, And Shear Wave Velocity Effect Of Local Muscle Fatigue On Low-Frequency Common Input To Bilateral And Unilateral Plantar Flexors During Quiet Standing | Siddicky | Siddicky | Competition - Doctoral C | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 133 |
| 496 | | Vigotsky | Vigotsky | Competition - Doctoral C | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 134 |
| 74 | Computational Model Of Muscle Injury Validated With In Situ Experiments | Watanabe | Watanabe | Competition - Doctoral C | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 135 |
| 636 | | Westman | Westman | Competition - Doctoral C | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 136 |
| 243 | Energetics And Leg Stiffness Of Hopping With Different Exoskeleton Spring Stiffness Profiles In Parallel To The Legs | Allen | Allen | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 137 |
| 550 | Comparison Of Machine Learning Algorithms For Activity Classification Using Emg | Anderson | Anderson | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 138 |
| 652 | Vertical Ground Reaction Forces And Loading Rates When Running With Running-Specific And Daily Use Prostheses | Baum | Baum | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 139 |
| 468 | Wearing An Ankle-Foot Orthosis Immediately Improves Walking Performance In Patients With Peripheral Artery Disease | Beier | Beier | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 140 |
| 99 | A Comparative Evaluation Of Different Wearable Devices On Lower Extremity Kinematics In Upright Kneeling While On A Roof | Brelloff | Brelloff | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 141 |
| 7 | How Does Touch Influence Postural Stability Of Single Leg Stance? | Soangra | Cabrales | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 142 |
| 693 | Comparison Of Constant Weight Compensation And Inertia Compensation For Knee And Ankle Joints In Wheel-Type Weight-Bearing Gait | Choi | Choi | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 143 |
| 638 | Mechanical Work Adaptations Using A Transtibial Prosthesis During The First Three Months Of Unassisted Ambulation | Collins | Collins | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 144 |
| 422 | Positional And Postural Effect Of A Visual Biofeedback Device During Rollator Walker Use: A Device Validation | Bigelow | Golembiewski | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 145 |
| 457 | Mechanically Passive Portable Shoulder Exoskeleton: Preliminary Design And Biomechanical Analysis | Hall | Hall | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 146 |
| 407 | Improving Quantitative Predictions Of A Human-Prosthesis Simulation | Handford | Handford | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 147 |
| 541 | Effect Of Night Vision Goggle Technologies On Task Performance During A Room Clearance Task | Higginson | Higginson | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 148 |
| 669 | Effect Of Toe Stiffness On The Push-Off And Joint Trajectories For The Powered Transfemoral Prosthesis: A Pilot Study | Hong | Hong | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 149 |
| 696 | Effect Of A Foot Pad On The Push-Off And Joint Trajectories For The Powered Transfemoral Prosthesis: A Pilot Study | Hur | Hong | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 150 |
| 267 | Energy Expenditure During Geared Manual Wheelchair Propulsion In Individuals With Spinal Cord Injury | Jahanian | Jahanian | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 151 |
| 607 | Powered Knee-Ankle Prosthesis And Dual-Task Walking In Unilateral Transfemoral Amputees | Jayaraman | Jayaraman | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 152 |
| 650 | Effects Of Isokinetic Bi-Axial Ankle Movement Training On Ankle Muscle Coactivation Pattern During Bilateral Standing In The Elderly With Post-Stroke Hemiparesis | Kim | Kim | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 153 |
| 245 | Simulated Development Of An Assistive Device To Aid Older Adults In Ascending Stairs | Lee | Lee | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 154 |
| 43 | Developing An Exoskeletal Device To Increase The Efficiency Of Moderate Running | Goehler | Luanpaisanon | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 155 |
| 498 | The Influence Of Return To Run Program On Foot Strike And Loading Rate While Running Using A Passive-Dynamic Ankle-Foot Orthosis | Maun | Maun | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 156 |

| | | | | | | | | |
|-----|---|--------------|-----------------------|--------------------------------------|------------------|------------|------------|--------|
| 611 | Design Of A Fragile Object For Evaluating Grip Performance With Powered Prostheses | Zhao | McCollough | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 157 |
| 472 | Reliability Testing Of The Smapp Device For Characterizing Ankle Foot Orthosis Stiffness | Menon | Menon | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 158 |
| 594 | Characterization Of Eccentric Motor Deficiencies In Individuals With Incomplete Spinal Cord Injury | O'Brien | O'Brien | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 159 |
| 159 | Predicting Interaction Forces Between Upper Extremities And Support Devices | Odle | Odle | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 160 |
| 580 | Differences In Mechanical Demand Imposed On The Shoulder During Manual Wheelchair Propulsion In The Community | Papp | Papp | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 161 |
| 30 | Optimizing A Variable Stiffness Transverse Plane Adapter For Lower Limb Amputees | Pew | Pew | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 162 |
| 504 | Development Of A Semg-Based Silent Speech Recognition System | Roy | Roy | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 163 |
| 537 | Impact Of Forces On Pediatric Posterior Walker On Work In Cerebral Palsy Gait | Russell | Russell | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 164 |
| 656 | Simulating Ankle Torque During Walking Using A New Bioinspired Muscle Model With Application For Controlling A Powered Exoskeleton | Lerner | Sadegh Pour Aji Bishe | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 165 |
| 155 | Dependence Of Agency And Performance On Visualized Precision Pinch Force | Nataraj | Sanford | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 166 |
| 210 | Discrete Visual Feedback On Short-Term Retention Of Learned Movements | Nataraj | Sanford | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 167 |
| 603 | Effect Of Foot Plate Length On Healthy Gait | Schmithenner | Schmithenner | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 168 |
| 566 | A Haptic Biofeedback Cane To Reduce Degenerative Loading In The Arthritic Knee | Schuster | Schuster | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 169 |
| 322 | Granular Jamming Foot Orthosis For Emulating A Range Of Biomechanical Properties | Chang | Simonds | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 170 |
| 148 | Subthreshold Vibration Does Not Affect Walking Performance Of Transtibial Amputees | Sloan | Sloan | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 171 |
| 491 | Development Of An Upperlimb Musculoskeletal Wheelchair Propulsion Model | Strong | Strong | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 172 |
| 619 | Advanced Prosthetic Control From A Noninvasive Neural Interface (Mu Drive) | Kline | Twardowski | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 173 |
| 642 | Modifications In Wheelchair Propulsion Mechanics After Wheelchair Reconfiguration | Wiens | Wiens | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 174 |
| 331 | Technical, Clinical And Functional Considerations For The Development Of 3D Printed Upper-Limb Prostheses | Young | Young | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 175 |
| 610 | Validation Of An Instrumented Knee Brace For Tracking Knee Flexion/Extension Angles During Activities Of Daily Living | Young | Young | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 176 |
| 649 | Automated Gait Segmentation For A Novel Gait Tracking Knee Brace | Young | Young | Prosthetics and Assistive Devices | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 177 |
| 288 | Effect Of Surfaces With Different Stiffness On Body Kinematics While Rolling | Hakansson | Agrawal | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 178 |
| 290 | Differences In Mechanical Energy Of Human Rolling On Different Surfaces | Hakansson | Agrawal | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 179 |
| 540 | Development Of A Pelvic Model For Study Of Surgical Errors In The Midurethral Sling Procedure | Arif | Arif | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 180 |
| 164 | Influence Of Forward Trunk Flexion During Stair Ascent On The Average Rate Of Pfi Stress Development | Atkins | Atkins | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 181 |
| 410 | Trunk Kinematics During Simulated Roof Shingle Installation | Carey | Carey | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 182 |
| 403 | Relationship Between Medial Longitudinal Arch Angle And First Ray Motion During Walking | Becker | Casillas | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 183 |
| 695 | Using Inertial Measurement Units To Measure Long-Term Recovery After Total Knee Arthroplasty | Chapman | Chapman | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 184 |
| 697 | Assessing Recovery In Total & Reverse Shoulder Arthroplasty Via Inertial Measurement Units | Chapman | Chapman | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 185 |
| 96 | Individuals With Multiple Sclerosis Exhibit More Regular Center Of Mass Accelerations After Physical Therapy. | Kurz | Davies | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 186 |
| 418 | Inertial Loading Of The Pediatric Head Exceeds Neck Injury Tolerance Prior To Head Injury Tolerance | Button | Davison | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 187 |
| 259 | Simple Gait Parameters And Function In Tka | Delventhal | Delventhal | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 188 |
| 683 | Effects Semitendinosus Tendon Stiffness On Isokinetic Force And Torque: Implications For Acl Repair | Domire | Domire | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 189 |
| 383 | Anticipatory Neck Muscle Activity In Automatic And Manual Emergency Braking | Douglas | Douglas | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 190 |
| 24 | Capsulotomy And Repairs On Torsional Stability Of The Hip | Wang | Douros | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 191 |
| 398 | An Upper-Extremity Function Dual-Task To Identify Cognitive Status Of Older Adults | Ehsani | Ehsani | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 192 |
| 173 | Muscle And Joint Contact Forces While Rowing On An Adapted Ergometer | Fang | Fang | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 193 |
| 242 | How Does Ergometer Setup And Rowing Speed Affect Biomechanics During Rowing On An Adapted Ergometer Designed For People With Spinal Cord Injury | Fang | Fang | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 194 |
| 81 | The Effect Of Transitioning From A Rearfoot Strike To A Non-Rearfoot Strike On Running Impulses Per Step | Freisinger | Freisinger | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 195 |
| 413 | Effects Of Prosthetic Socket Suspension On Knee Proprioception And Dynamic Balance In Transtibial Amputees | Gao | Gao | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 196 |

| | | | | | | | | |
|-----|---|------------|------------|--------------------------------------|------------------|------------|------------|--------|
| 178 | Development Of A Charged Opf Hydrogel-Scaffold System For The Treatment Of Vertebral Failure In Metastatic Spines | Giambini | Giambini | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 197 |
| 19 | Establishing Norms For Weight-Bearing Hip Rotation Range Of Motion | Gulgin | Gulgin | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 198 |
| 146 | How Femoral Version Changes Joint Loading In Patients With Developmental Dysplasia Of The Hip | Harris | Harris | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 199 |
| 698 | Determining Cervical Disc Injury Potential In Motor Vehicle Collisions | Hashish | Hashish | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 200 |
| 316 | Single Leg Land Provides Unique Insight Into Landing Mechanics In Female Athletes Post-Acl/R | Hatcher | Hatcher | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 201 |
| 266 | Mechanical Characterization And Biomechanical Computational Modeling Of Short Bowel Syndrome | Hosseini | Hosseini | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 202 |
| 605 | An Investigation Of Buckling Complications In Spinal Anesthesia Administration Procedures | Hulburt | Hulburt | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 203 |
| 378 | Sample Sizes Of Statistical Model For The Elderly | Hwang | Hwang | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 204 |
| 54 | Radioulnar Wrist Compression For Carpal Tunnel Syndrome Treatment: A Preliminary Clinical Study | Li | Jenkins | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 205 |
| 301 | Biomechanics Response To Acute Patellofemoral Pain In Running | Jewell | Jewell | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 206 |
| 335 | Gait Performance In Bipolar Disorder: A 6-Month Pilot Longitudinal Study | Kang | Kang | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 207 |
| 686 | Wearable Sensors For Assessment Of Varus Thrust In Knee Osteoarthritis: A Proof Of Concept | Kumar | Kumar | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 208 |
| 98 | Relating Functional Task Performance To Rotator Cuff Pain In A Breast Cancer Survivor Population | Lang | Lang | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 209 |
| 230 | Development And Assessment Of A Low-Cost Clinical Gait Analysis System | Littrell | Littrell | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 210 |
| 508 | 3D Models Of Neck Strength In Three Cardinal Planes Of Motion | Frey Law | Looft | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 211 |
| 184 | Characterization Of Dynamic Ankle Stiffness In Individuals With Spasticity | Kaufman | Loushin | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 212 |
| 160 | Muscle Comparisons And Reliability Of A Novel Method To Assess Rate Of Force Relaxation | Uygur | Mathern | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 213 |
| 295 | Trunk Compensatory Strategies Persist Twelve Months Following Total Knee Arthroplasty | McClelland | McClelland | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 214 |
| 312 | Resultant Lower Limb Acceleration And Ground Reaction Forces Are Correlated In The Time And Frequency Domains | McGeehan | McGeehan | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 215 |
| 18 | Passive Hamstring Muscle Stiffness Assessed In High School Athletes Using Shear Wave Elastography | McPherson | McPherson | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 216 |
| 207 | Orbital Stability During Dual-Task Treadmill Walking In Cancer Patients | Monfort | Monfort | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 217 |
| 278 | Passive And Active Knee Joint Stiffness During High-Velocity Threshold To Detect Passive Motion Test In Ad-Reconstructed Subjects | Nagai | Nagai | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 218 |
| 684 | Prophylactic Ankle Bracing Alters Lower Extremity Kinematics During Landing | Nelson | Nelson | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 219 |
| 56 | In Vitro Reduction Of Wrist Pressure During Antebrachial Tissue Manipulation | Li | Norman | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 220 |
| 519 | Differences In Resultant Joint Forces And Moments At L4/L5 Between Participants With And Without Back Pain | Nunez | Nunez | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 221 |
| 213 | Comparison Of Ground Reaction Forces And Knee Joint Moments Between Parkinson,Às Disease And Healthy Older Adults Using A Kinect-Driven Musculoskeletal Gait Analysis Model | Oh | Oh | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 222 |
| 529 | Phase Offset Error Attenuation In Pattern Based Feedback For Gait Retraining | Oliveira | Oliveira | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 223 |
| 119 | Post-Trial Feedback Using A Portable Clinical System May Alter Landing Performance | Rutherford | Onsager | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 224 |
| 224 | Internal Knee Joint Abduction Moments Of Acl Reconstruction Patients During Gait And Cycling Using Opensim | Pottinger | Pottinger | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 225 |
| 475 | Shear Lag In A Partially Failed In Fiberwire Surgical Suture | Qwam Alden | Qwam Alden | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 226 |
| 13 | Evidence Behind Alternative Computer Mouse Designs: A Systematic Review Of Controlled Trials | Radwan | Radwan | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 227 |
| 558 | Prediction Of Female Injury In Automotive Crash Environments | Roberts | Roberts | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 228 |
| 84 | Work Envelope In Native And Non-Native Signers | Roman | Roman | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 229 |
| 429 | Intervertebral Disc Herniation Risk During Low-Speed Lateral Collisions | Rossmann | Rossmann | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 230 |
| 511 | Biomechanical Indicators Of Movement Disorders In Parkinson,Às Disease | Roy | Roy | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 231 |
| 602 | Spatial Differences In Nerve Mechanical Properties Using Shear Wave Elastography | Rugel | Rugel | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 232 |
| 671 | The Effect Of Excising A Supra-Scapula Spine Lipoma On Scapular Kinematics | Rundquist | Rundquist | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 233 |
| 449 | Development Of Low Cost 3D Printed Anatomical Models For Pre-Surgical Planning | Salazar | Salazar | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 234 |
| 109 | Finger Extensor Muscle Stiffness Predicts Clinical Assessment Of Extensor Weakness | Schilaty | Schilaty | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 235 |

| | | | | | | | | |
|-----|---|-----------------|------------|--------------------------------------|------------------|------------|------------|--------|
| 47 | Feedback On Patellofemoral Joint Load Influences Squat Performance | Kernozek | Schiller | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 236 |
| 406 | The Effect Of Distraction On Dermal Patch Reconstruction Of The Hip Capsule | Miller | Schimoler | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 237 |
| 420 | Chronological Comparison Of Walking Ground Reaction Force In Individuals With Aclr | Seeley | Seeley | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 238 |
| 446 | In Vitro Simulation Of Torque-Induced Rotator Cuff Tears | Kersh | Shanley | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 239 |
| 319 | Development Of Force-Space Navigation For Surgical Robotics | Smith | Smith | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 240 |
| 427 | Simulation Of Occupant Kinematics In Low-Speed Lateral Collisions Using Articulated Total Body | Sproule | Sproule | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 241 |
| 291 | Comparison Of Dynamic Joint Kinematics During Shoulder Elevation In Healthy Controls And Individuals Diagnosed With Multidirectional Instability | Staker | Staker | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 242 |
| 268 | Overground Walking Knee Biomechanics Of Dissatisfied Total Knee Replacement Patients | Valenzuela | Valenzuela | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 243 |
| 202 | Estimating Walking Speed Using A Single Camera In The Line Of Progression | Varre | Varre | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 244 |
| 505 | Characterizing Upper Extremity Function Using Real World Evidence | Kaufman | Webber | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 245 |
| 553 | Effects Of Trunk Movement Retraining On Gait Mechanics Of A Patient With Transtibial Amputation | Yoder | Yoder | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 246 |
| 640 | Validation Of Micro Spikes For Mounting An Implant To A Tendon | Balasubramanian | You | Clinical and Real-world Applications | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 247 |
| 174 | Hopping Performance In Individuals With Achilles Tendon Rupture: Applying A Constituent Lower Extremity Work Approach | Ebrahimi | Zellers | Clinical and Real-world Applications | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 248 |
| 386 | Development Of A Musculoskeletal Finite Element Analysis Method For Dynamic Bone Stress Analysis Of Proximal Femur | Adachi | Adachi | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 249 |
| 469 | Development Of A Structural Stochastic Finite Element Model Of Cancellous Bone | Alrafeek | Alrafeek | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 250 |
| 367 | A Comprehensive Testing Suite For Mechanical Characterization Of Articular Cartilage With Documented Repeatability | Chokhandre | Chokhandre | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 251 |
| 338 | Temporal Response Of Muscle-Bone Deformities At The Shoulder Following Brachial Plexus Birth Injury | Dixit | Dixit | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 252 |
| 387 | A Comparison Of The Mechanical Properties Of Trabecular Bone Between Micro-Finite Element And Meshless Models | Ip | Ip | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 253 |
| 348 | Associating Bone Mineral Density With Dynamic Skeletal Loading In Post-Menopausal Women | Fortune | Madansingh | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 254 |
| 73 | Estimation Of Mechanical Load In-Vivo Based On The Trabecular Bone In The Vertebral Body | Mano | Mano | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 255 |
| 629 | Effects Of Exercise And Posture On Subchondral Bone Thickness | Kersh | Rahman | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 256 |
| 324 | Effect Of Tumor Size And Location Within Vertebral Body On Fracture Risk | Lu | Rezaei | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 257 |
| 644 | Strain Rate Dependent Responses Of The Engineered And Native Cartilage | Seifzadeh | Seifzadeh | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 258 |
| 596 | Experimental Measurement Of The Cutting Forces Generated During A Robot-Driven Glenoid Reaming Procedure | Sharma | Sharma | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 259 |
| 262 | Local Thickness Of The Human Skull Affects Patterns Of Cranial Fracture | Wei | Snyder | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 260 |
| 476 | Relating Gait And Bone Growth In Rat Tibia | Song | Song | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 261 |
| 355 | Tendon Allograft Processing And Reconstitution | Thoreson | Thoreson | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 3:30:00 PM | 5:00:00 PM | Th 262 |
| 29 | Development Of Pelvis Model For Biomechanical Evaluation Of Minimally Invasive Acetabular Reconstruction | Wang | Tutton | Bone, Cartilage, & Tendon | Thursday, Aug. 9 | 2:00:00 PM | 3:30:00 PM | Th 263 |
| 680 | Effects Of Ankle Bracing On Knee And Hip Torques During Landing | Arnwine | Arnwine | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 001 |
| 293 | Tibialis Anterior In Vivo Muscular Activity Decreases With Age Landing Biomechanics Differ Between Professional Dancers And Non-Dancers: Experimental And Preliminary Modeling Approaches | Ates | Ates | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 002 |
| 677 | External Load Contributions To Acl Strain In Multiplanar Loading During Simulated Landings | Cortes | Azevedo | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 003 |
| 25 | Influence Of Injury Risk Profiles On Acl Strain During Simulated Landings | Bates | Bates | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 004 |
| 26 | Video Analysis Of Second Acl Injury Events In Male Professional Athletes | Bates | Bates | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 005 |
| 27 | Knee Loading Correlations With Acl Geometries During Simulated Landings | Bates | Bates | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 006 |
| 34 | Adaptation Of Lower Limb Joint Work In Single Leg Hopping After Unilateral Ankle Fatigue | Bell | Bell | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 007 |
| 32 | Zero Echo Time (Zte) Imaging Bone And Joints | Breighner | Breighner | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 008 |
| 689 | Sagittal Plane Trunk And Lower Extremity Movement During A Single Leg Drop Task At 6 And 12 Months After Anterior Cruciate Ligament Reconstruction | Briggs | Briggs | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 009 |
| 628 | Number Of Successive Crank Cycles Needed To Achieve Stable Pedal Forces Data | Buddhadev | Buddhadev | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 010 |
| 78 | | | | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 011 |

| | | | | | | | | |
|-----|---|----------------|-------------|-----------------|-----------------|------------|------------|--------|
| 389 | Frontal Plane Biomechanics During A Single Leg Hop Task Are Correlated With Quality Of Life And Confidence In Patients With Anterior Cruciate Ligament Reconstruction | Chen | Chen | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 012 |
| 130 | Activation-Dependent Changes In Soleus Length-Tension Behavior Augment Ankle Stiffness | Clark | Clark | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 013 |
| 15 | The Effect Of Hamstring Foam Rolling On Knee And Hip Joint Proprioception | Amasay | David | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 014 |
| 116 | The Effect Of Mid-Flight Trunk Flexion And Extension On Center Of Mass Redistribution And Landing Mechanics | Davis | Davis | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 015 |
| 503 | Measurement Of Knee Angles At Landing And Peak Ground Reaction Force Using Wearable Sensors | Esquivel | Esquivel | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 016 |
| 308 | Quantifying Knee Injury Risk During A Wrestling Takedown | Altman-Singles | Fox | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 017 |
| 400 | Single-Joint Strength Curves From A Multi-Joint Task | Fox | Fox | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 018 |
| 631 | Comparing Patellefemoral Joint Stress Of Various Movements Optimizing Whole Body Kinematics To Reduce Peak Non-Sagittal Plane Knee Loads During Single Leg Jump Landing Task To Reduce Risk Of Acl Injury | Gheidi | Gheidi | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 019 |
| 345 | Segment Coordination Variability Changes During Back Squats With Biofeedback | Gupta | Gupta | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 020 |
| 226 | Testing Of Rubber Bumpers For Improvement Of The Single Axis Foot | Hannan | Hannan | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 021 |
| 443 | Effects Of Ankle Tendon Vibration On Post-Stroke Ankle Proprioception | Hein | Hein | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 022 |
| 64 | Evaluation Of Three Dimensional Knee Cruciate & Collateral Ligament Strain With Digital Image Correlation | Herrmann | Herrmann | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 023 |
| 139 | The Relationship Between Golf Stance And The Lead Limb Peak Knee Adduction Moment | Hooke | Hooke | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 024 |
| 299 | Sex And Not Functional Ankle Instability Impact Peroneal Muscle Parameters | Hooker | Hooker | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 025 |
| 62 | Dominant Limb Lower Extremity Work Predicts Performance In Individuals With Low Back Pain | Ihmels | Ihmels | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 026 |
| 575 | Lower Limb Biomechanics During Single-Leg Landings Following Acl Reconstruction: A Systematic Review And Meta-Analysis. | Johnson | Johnson | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 027 |
| 31 | 3D Motion Analysis Of Successful Versus Failed Single-Leg Landings After Acl Reconstruction | Johnston | Johnston | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 028 |
| 61 | Limb Asymmetries Post Acl Reconstruction: Can You Make The Decision? | Johnston | Johnston | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 029 |
| 533 | Verbal Encouragement Does Not Produce Additive Effect On Quadriceps Function As Long As Sufficient Rest Period Is Provided | Kakar | Kakar | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 030 |
| 251 | Developing The Sensitivity Of A Human Ankle Joint Finite Element Model To The Thickness Of Cartilage | Kim | Kim | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 031 |
| 455 | Biomechanical Characteristics Of Subtalar Joint Axis Of Rotation Individual With Chronic Ankle Instability | Kim | Kim | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 032 |
| 590 | The Effects Of Muscular Fatigue And Gender On Knee Kinetics And Kinematics During The Forward Lunge | Kim | Kim | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 033 |
| 423 | Decision-Making Influences Tibial Impact Accelerations During Lateral Cutting | Lipat | Lipat | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 034 |
| 247 | The Effect Of Joint Hypermobility On Hip And Knee Kinetics And Strength In Adolescents With Juvenile Fibromyalgia | Almonroeder | Lucas | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 035 |
| 359 | Posterior Lateral Tibial Contact With Lateral Wedging In Medial Osteoarthritis | Marulli | Marulli | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 036 |
| 522 | Biomechanical Symmetry During Drop Jump And Single-Leg Hop Landing In Uninjured Adolescent Athletes | Mejia | Mejia | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 037 |
| 77 | Sex Differences In Passive And Active Joint Stiffness During High-Velocity Threshold To Detect Passive Motion Test | Mueske | Mueske | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 038 |
| 277 | Comparison Of Knee Biochemical Variables In Involved And Uninvolved Knees 6 Months Post Aclr | Nagai | Nagai | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 039 |
| 234 | Inertial Parameter Changes Of The Shank And Thigh During Stamping | Neal | Neal | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 040 |
| 298 | The Influence Of Patellar Tilt On Patellar Tendon Stress: A Sensitivity Analysis | Pain | Pain | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 041 |
| 69 | Effect Of Foot Rotation On Knee Mechanics During An Anticipated Running And Cutting Task | Powers | Park | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 042 |
| 153 | Regulation Of Whole Body Angular Impulse While Performing Golf Swings With Short And Mid Irons | Peel | Peel | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 043 |
| 521 | Broad Jump Performance And Basketball Shoe Bending Stiffness | Peterson | Peterson | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 044 |
| 488 | Injury Prevention Based On Computer Modeling Of Cleat Traction | Picco | Picco | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 045 |
| 556 | Quadriceps Activation And Strength Changes During Repetitive Exercise In Individuals With Anterior Knee Pain | Rittenhouse | Rittenhouse | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 046 |
| 248 | Effect Of Meniscectomies On Acl Strain: A Dynamic Finite Element Study | Park | Roh | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 047 |
| 241 | Initiation And Propagation Of Microcracks In Collagen Networks Of Cartilage | Sadeqi | Sadeqi | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 048 |
| 197 | Effect Of Filter Cutoff On Impact Simulator Data: Artefact Of Artefction | Pierce | Santos | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 049 |
| 16 | Medial Collateral Ligament Strain Characteristics At Anterior Cruciate Ligament Failure | Schilaty | Schilaty | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 050 |
| 17 | | Schilaty | Schilaty | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 051 |

| | | | | | | | | |
|-----|---|--------------|---------------|---------------------|-----------------|------------|------------|--------|
| 156 | Ankle Kinematics And Kinetics Are Altered When Rounding A Raised Base | Schroeder | Schroeder | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 052 |
| 289 | Material Properties Of The Thigh: Body Position Matters | Reid Bush | Scott | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 053 |
| 192 | Reliability Of Motor Variability Among Healthy Controls And Athletes In A Side-Hop Task | Ulman | Ulman | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 054 |
| 477 | Influence Of Vibration Intensity On Lower Limb Joint Loading During Standing | Yang | Underdahl | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 055 |
| 625 | Effect Of Post Activation Potentiation On Knee Angle During Rebound Jumps | Walker | Walker | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 056 |
| 169 | Verbal Instruction Reduces Patellofemoral Joint Loading During Bodyweight Squatting | Almonroeder | Watkins | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 057 |
| 678 | Testing The Efficacy Of Acl Injury Prevention Programs Through Opensim | White | White | Lower Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 058 |
| 118 | Impact Attenuation Of Biomechanics In Drop Landing On Synthetic Turf With Shock Pad | Zhang | Zhang | Lower Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 059 |
| 604 | Agent-Based Computational Model Of Human Skeletal Muscle Adaptation To Changes In Activity | Anton | Anton | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 060 |
| 38 | Effect Of Arm Motion On Standing Lateral Jump Performance | Ashby | Ashby | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 061 |
| 93 | Differences In Knee Flexibility During Functional Movements Between Track And Field Athletes Based On Event Participation | Goehler | Austin | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 062 |
| 307 | Laboratory And On-Field Results Of Athlete Head Impact Monitoring | Bartsch | Bartsch | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 063 |
| 485 | Kinetic And Kinematic Differences In Weightlifting Movements With And Without The Use Of A Double Knee Bend | Carnall | Carnall | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 064 |
| 647 | Sex Differences In Joint Kinetics During A Restricted Vertical Jump | Daugherty | Daugherty | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 065 |
| 578 | Pacing Strategy Changes As Age Increases In Long Distance Runners | Agresta | Davis | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 066 |
| 435 | Lower Extremity Biomechanics Are Altered In A Sport-Specific Virtual Environment | DiCesare | DiCesare | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 067 |
| 22 | Kinematic And Kinetic Differences Between Left- And Right-Handed Professional Baseball Pitchers | Diffendaffer | Diffendaffer | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 068 |
| 369 | Modelling Traction Forces During Boot-Surface Interactions | Forrester | Forrester | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 069 |
| 321 | A Comparison Of Total Body Band-Resisted Exercises On Gluteus Medius Activation | Oliver | Friesen | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 070 |
| 244 | Effect Of Late Training Sessions On Recovery: A Study Of Heart Rate Variability In Women, A&S Soccer | Johnson | Grotelueschen | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 071 |
| 63 | Determining Kinematics Parameters That Dictate Successful Completion Of The Hurdle Step Functional Movement | Goehler | Harrold | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 072 |
| 95 | "Investigating The Complexity Of Movement Patterns During American Football Competition" | Hasenkamp | Hasenkamp | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 073 |
| 142 | Effects Of Finger Taping On Forearm Muscle Activation In Rock Climbers | Johnson | Johnson | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 074 |
| 45 | Developing Methods Of Fatigue Analysis And Injury Prevention In Baseball Pitchers: A Study Using Motus Sensors | Goehler | Joslyn | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 075 |
| 474 | The Effect Of Player Performance On Head Impact Exposure In Youth Football | Kelley | Kelley | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 076 |
| 42 | Quantifying Human Motion In Swimmers Using Inertial Measurement Units | Goehler | Main | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 077 |
| 528 | Individual Cross Punch Versus Combination Cross Punch Mechanics | Mazurek | Mazurek | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 078 |
| 121 | Landing Characteristics Of Beanbag And Koosh Ball Throws | Meyer | Meyer | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 079 |
| 273 | Effects Of Sex And Age On Hamstrings And Quadriceps Strength And Ratio In High School Basketball Players | Nagai | Nagai | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 080 |
| 274 | Effects Of Sex And Age On Hip Flexors And Hamstrings Flexibility In High School Basketball Players | Nagai | Nagai | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 081 |
| 275 | Neuromuscular Characteristics Of High School Basketball Players Who Later Suffered Hamstrings Strains: Preliminary Findings | Nagai | Nagai | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 082 |
| 51 | Hop Distance And Loading Symmetry In Acl Reconstructed Athletes During Return To Sport Testing | Peebles | Peebles | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 083 |
| 691 | Effects Of Age On Skeletal And Muscular Contributions To Leg Stiffness | Powell | Powell | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 084 |
| 405 | Critical Factors In The Weight Throw For Collegiate Throwers | Becker | Schroeder | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 085 |
| 648 | Wavelet Transform Analysis Counter movement Jump Performance | sha | sha | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 086 |
| 11 | Muscle Activation Analysis With Kinematic Comparison Between Wind-Up And Stretch Pitching With Respect To The Upper And Lower Extremities | Smidebush | Smidebush | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 087 |
| 36 | On The Plyometric Nature Of Olympic Weightlifting | Squillante | Squillante | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 088 |
| 381 | Biomechanics Differ In High School Pitchers Based On Injury History | Struminger | Struminger | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 089 |
| 667 | Upper Extremity Forces During Water Tubing | Suderman | Suderman | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 090 |
| 382 | Analysis Of Ground Reaction Force Components During The Golf Swing | Trunt | Trunt | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 091 |

| | | | | | | | | |
|-----|--|--------------|----------------|-------------------------|-----------------|------------|------------|--------|
| 87 | The Effects Of Resistance Bands On Trapezius Activity During Full-Body Exercises | Oliver | Wasserberger | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 092 |
| 237 | Asymmetries In Knee Extensor Moments During Fatigue In Athletes Who Sustain Bilateral Acl Injuries | Webster | Webster | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 093 |
| 690 | It Matters What You Curl, But Not To The Biceps Brachii | Weimar | Weimar | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 094 |
| 657 | Center Of Mass Movement And Lower Limb Mechanics During Standing Cycling | Wilkinson | Wilkinson | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 095 |
| 44 | Quantification Of The Shock Absorption Performance Of Construction Helmets In Top Impact | Wu | Wu | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 096 |
| 199 | Effect Of Sex On Centre Of Mass During Sidestepping | Wyatt | Wyatt | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 097 |
| 451 | Influence Of Chinstrap Attachment Location On American Football Helmet Impact Performance | York | York | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 098 |
| 149 | Efficacy Of A New Football Helmet Liner Mechanism On Head Impact Accelerations | Yount | Yount | Sports and Exercise | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 099 |
| 694 | Diversity In Shoulder And Abdominal Muscle Activation Patterns Used During The Volleyball Spike | Zaferiou | Zaferiou | Sports and Exercise | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 100 |
| 117 | The Effect Of Mid-Flight Whole-Body And Trunk Rotation On Landing Mechanics | Critchley | Critchley | Competition - Masters | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 101 |
| 133 | Modular Control Of The Timed-Up-And-Go Test In Stroke Survivors | Allen | McDonald | Competition - Masters | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 102 |
| 548 | Time-Course Changes Of Treadmill Running Kinematics In Different Footwear | Paquette | Melaro | Competition - Masters | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 103 |
| 592 | Changes In Structure And Loading Conditions Of The Equine Proximal Phalanx During Growth | Moshage | Moshage | Competition - Masters | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 104 |
| 138 | Reducing The Metabolic Cost Of Fast Walking Through Stiff Insoles | Ray | Ray | Competition - Masters | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 105 |
| 624 | Wearable Technology Measures Manual Tactile Forces During Activities Of Daily Living | Riddle | Riddle | Competition - Masters | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 106 |
| 518 | Reliability Of Radiographic Evidence Of Glenohumeral Subluxation And The Relationship To Shoulder Joint Motion | Topley | Topley | Competition - Masters | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 107 |
| 361 | The Role Of Cycle-To-Cycle Variability In The Development Of Shoulder Pain In Manual Wheelchair Users | Walford | Walford | Competition - Masters | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 108 |
| 59 | The Effect Of Footwear On Barbell Back Squat Mechanics In Experienced Female Squatters | Walker | Walker | Competition - Masters | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 109 |
| 544 | Utilizing Inertial Sensors To Evaluate Human Walking During A Long Outdoor Foot March | Ojeda | Wathen | Competition - Masters | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 110 |
| 195 | Center Of Mass Motion During Sit-To-Stand Changes Through Pregnancy | Catena | Alejandro-Rios | Competition - Undergrad | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 111 |
| 448 | The Effects Of Hearing Loss On Gait Stability In Older Adults | Gordon | Cornwell | Competition - Undergrad | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 112 |
| 470 | Effect Of Number Of Segments In A Running-Specific Prosthesis Model On Hip And Knee Kinetics | Eustace | Eustace | Competition - Undergrad | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 113 |
| 641 | Effects Of Fixed And Variable Damping Environments On Ankle Agility And Stability | Lee | Hanzlick | Competition - Undergrad | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 114 |
| 579 | Creation Of Subject-Specific Subtalar Joint Contact Models From Weight Bearing Ct Scans | Dibbern | Hiller | Competition - Undergrad | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 115 |
| 205 | The Achilles Tendon Moment Arm Exhibits Independent And Combinatory Effects Of Joint Rotation And Muscle Loading | Franz | Khanchandani | Competition - Undergrad | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 116 |
| 283 | Finite Element Analysis Of The Rotator Cuff: A Systematic Review | Looft | Redepinning | Competition - Undergrad | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 117 |
| 250 | Progressive Lateral Column Lengthening In A Cadaveric Flatfoot Model Increases Individual Bone Rotations In The Midfoot And Hindfoot | Szabo | Szabo | Competition - Undergrad | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 118 |
| 235 | Evaluation Of Ankle Proprioception And Self-Reported Ankle Instability Using A Novel, Clinically-Oriented Procedure | Teater | Teater | Competition - Undergrad | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 119 |
| 264 | Upper Limb Joint Kinematics During Touchscreen Interaction | Asakawa | Asakawa | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 120 |
| 633 | Shoulder Muscle Activity Changes In Patients After Injection And Therapy | Cooper | Cooper | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 121 |
| 297 | Quantifying Glenohumeral Joint Stiffness Across Different Shoulder Postures | Lipps | Diefenbach | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 122 |
| 57 | Analysis Of Upper Extremity Moments During Hammering | Langenderfer | Ferdous | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 123 |
| 134 | Shoulder Muscle Activation Patterns During Multiplanar Arm Elevation | Vardaxis | Gibbs | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 124 |
| 113 | The Effect Of Wrist Position On Tendon Loads Following Pulley Sectioning And Operative Reconstruction | Haddara | Haddara | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 125 |
| 114 | The Effect Of Sequential Flexor Tendon Pulley Sectioning And Reconstruction On Joint Range Of Motion And Tendon Load | Haddara | Haddara | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 126 |
| 577 | Web-Based Visualization Of 4Dct Image Datasets For Assessing Wrist Injury | Zhao | Holmes III | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 127 |
| 229 | Cumulative Load Exposure To Upper Extremities In Manual Wheelchair Users In Their Free-Living Environments | Hooke | Hooke | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 128 |
| 434 | Force Transmission Through The Elbow Joint Associated With Contact Pressure And Contact Area In A Cadaveric Model With Forearm Instability | O'Driscoll | Hwang | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 129 |
| 639 | Compensatory Muscle Activation Increases With Rotator Cuff Tear Severity: A Simulation Study | Khandare | Khandare | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 130 |
| 227 | The Effect Of Material Heterogeneity On Trabecular Stiffness In Micro Finite Element Models | Knowles | Knowles | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 131 |

| | | | | | | | | |
|-----|--|------------------|------------------|---------------------------------------|-----------------|------------|------------|--------|
| 228 | Accuracy Of Density-Modulus Relationships Used In Finite Element Modeling Of The Shoulder | Knowles | Knowles | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 132 |
| 306 | Muscular Demands Associated With Manual Pallet Wrapping Techniques | Maciukiewicz | Maciukiewicz | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 133 |
| 411 | Imaging-Based Quantification Of Shoulder Impingement During Manual Wheelchair-Based Activities Of Daily Living | Mozingo | Mozingo | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 134 |
| 688 | Discrimination Between Hand/Wrist Occupational Tasks And Individual Workers Through The Use Of An Instrumented Wrist Brace | Gordon | Piper | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 135 |
| 612 | Validation Of An Instrumented Wrist Brace For Tracking Wrist Kinematics In Occupational Settings | Gordon | Piper | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 136 |
| 172 | Plane Of Arm Elevation Effect On Scapulohumeral Rhythm (Shr) | Vardaxis | Schossow | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 137 |
| 55 | Thumb Force And Associated Activation Of Individual Thenar Muscles During Pipetting | Li | Selvaraj | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 138 |
| 232 | Fatigue Of The Lower Trapezius Muscle Decreases Scapular Posterior Tilt During Arm Elevation. | Timmons | Timmons | Upper Extremity | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 139 |
| 618 | Thumb Kinetics And Kinematics In Osteoarthritic And Healthy Participants | Vocelle (Cussen) | Vocelle (Cussen) | Upper Extremity | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 140 |
| 342 | The Affect Of Neuromuscular Impairment On Motor Unit Activation In Children With Cerebral Palsy | Buchanan | Adams | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 141 |
| 60 | Soleus T- And H-Reflex Modulation When Performing An Unstable Stance | Chalmers | Chalmers | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 142 |
| 500 | Fatigue Affects Balance Control Differently During Single- And Dual-Task Walking In Older Workers | Chen | Chen | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 143 |
| 330 | Control Of Motor Units And Strategies Of Force Generation During Fatigue | Contessa | Contessa | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 144 |
| 209 | Modeling Motor Noise Regulation In A Simple Shuffleboard Machine | Cusumano | Cusumano | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 145 |
| 94 | Investigation Of Optimal Noise Level For Imperceptible Vibrotactile Stimulation | Haynes | Haynes | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 146 |
| 152 | Unique Locomotor Adaptations Emerge From Variable Asymmetric Split-Belt Treadmill Walking | Hinkel-Lipsker | Hinkel-Lipsker | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 147 |
| 626 | Motor Unit Measurement Technology For Training, Exercise And Functional Activities | Kline | Kline | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 148 |
| 358 | Accuracy Of Group Analyses In Representing Shoulder Muscle Coordination Patterns Of The Individual | Leonardis | Leonardis | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 149 |
| 70 | Effect Of Visual Rhythmic Cueing And Visual Feedback On Motor Control In Children With Autism | Lidstone | Lidstone | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 150 |
| 357 | Biomechanical Variability Among Individuals Following Acl Reconstruction And Rehabilitation | Lindley | Lindley | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 151 |
| 343 | Femoroacetabular Impingement Syndrome Alters The Kinematic Control Strategy During Gait | Malloy | Malloy | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 152 |
| 447 | Dynamic Ultrasound Analysis Of Median Nerve May Differentiate Clinically Significant Carpal Tunnel Syndrome Relationships Among Resting Muscle Tension, Short-Range Stiffness, Motion Detection, And Time To Peak Torque In Human Knee Joint | Mattioli | Mattioli | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 153 |
| 279 | | Nagai | Nagai | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 154 |
| 635 | The Effect Of Surgical Alignment On Gait Complexity In Adult Deformity Patients - A Neuromuscular Synergy Approach | Hur | Nazifi | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 155 |
| 493 | Emg-Driven Musculoskeletal Simulations Using A New Threshold Optimization Technique | O'Brien | O'Brien | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 156 |
| 137 | Modular Control Of Gait In Healthy Older And Young Adults | Roelker | Roelker | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 157 |
| 350 | Kinematic Variability In Piano Performance | Schmidt | Schmidt | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 158 |
| 660 | Investigation Of Whole-Limb Motion As A Primary Motor Goal During Gait | DiBerardino | Sommers | Motor Control & Muscle | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 159 |
| 431 | Mechanisms Of Preparation For Task Switching In Finger Pressing Task | Ambike | Tillman | Motor Control & Muscle | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 160 |
| 313 | Designing Usable Assistive Devices In A First-Year Engineering Design Class: Lessons Learned To Maximize The Odds Of Success | Bigelow | Bigelow | Teaching/Outreach | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 161 |
| 608 | Software-Based Training Can Improve Student Learning In Undergraduate Biomechanics Class | Gonzalez | Gonzalez | Teaching/Outreach | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 162 |
| 136 | Student Perceptions Of Active Learning And Mastery In Biomechanics | Wallace | Knudson | Teaching/Outreach | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 163 |
| 86 | Biomechanics To Engage Elementary Stem Education | Lanier | Lanier | Teaching/Outreach | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 164 |
| 212 | Open-Ended Discussion In The Biomechanics Class | Troy | Troy | Teaching/Outreach | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 165 |
| 464 | Biaxial Cyclic Loading Of Skin | Afsar Kazerooni | Afsar Kazerooni | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 166 |
| 681 | Excursion Of Individual Wrist Tendons Using A Joint Motion Simulator And Phantom Limb | Anderson | Anderson | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 167 |
| 426 | Quantifying The Shoulder Workspace Of Wheelchair Users And Able-Bodied Controls Using Imus | Cain | Cain | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 168 |
| 463 | Accuracy Of Video Analysis For Forward Lean Releases In A Clinical Setting | Smeesters | Carbonneau | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 169 |
| 535 | Instrumentation Of A Rod Rotation Wrench For Use In Scoliosis Surgery | Cummings | Cummings | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 170 |

| | | | | | | | | |
|-----|--|-----------|-----------|---------------------------------------|-----------------|------------|------------|--------|
| 559 | Revisiting The Minimum Number Of Steps To Accurately Measure Step Kinematics During Treadmill Walking | Desmet | Desmet | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 171 |
| 310 | Relationship Between Regional Lumbar Postures And Trunk Muscle Fatigability During Standing In Chronic Low Back Pain | Embaby | Embaby | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 172 |
| 497 | Characterization Of A Miniaturized Horizontal Sled Determining The Odds Of Exceeding Niosh Recommended L5/S1 Spinal Compression Force Using A Bayesian Network | Estep | Estep | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 173 |
| 9 | Implementation Of A Biomechanical Lifting Model | Hughes | Hughes | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 174 |
| 354 | Normative Cervical Spine Kinematics Of A Circumduction Task In A Healthy Cohort | Ellingson | Kage | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 175 |
| 584 | Lumbar Spine Biplane Fluoroscopy Validation Via An Automated Shape-Matching Algorithm | Ellingson | Kage | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 176 |
| 263 | Passive And Active Characteristics Of The Smooth Muscle Of The Stomach And Its Finite Element Simulation | Kim | Kim | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 177 |
| 41 | Analysis Of Stress Wave Propagation By An Anatomical Finite Element Model Of The Skull With The Suture | Kiriyama | Kiriyama | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 178 |
| 255 | Soft Tissue Stiffness Over The Hip Increases With Age And Its Implication In Hip Fracture In Older Adults: Data From One Hundred Fifty Individuals | Choi | Lim | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 179 |
| 651 | Anatomical Model Evaluation Using In Vitro Squat Simulation | Manal | Manal | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 180 |
| 115 | Effects Of Age And Gender On Cervical Lateral Bending Injury Tolerance Corridors | Shimada | Maroney | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 181 |
| 14 | Custom Software For Calculation Of Shear Wave Velocity | McPherson | McPherson | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 182 |
| 105 | Validation Of Imus For Trunk Kinematics During Treadmill Disturbances | Kaufman | Miller | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 183 |
| 276 | Intrasession Reliability, Precision, And Between-/Within-Subjects Variability Of Hamstrings Shear Wave Elastography At Different Positions | Nagai | Nagai | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 184 |
| 300 | Load Carriage Effect On The Ability To Control Dynamic Movement | Perlin | Perlin | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 185 |
| 437 | Classifying Type Of Natural Gait Using Ann And Ankle-Mounted Accelerometer Data | Mahoney | Rhudy | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 186 |
| 372 | Validation Of A Neck Model With Mucle Fatigue Using The Sorensen Test | Zhou | Roos | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 187 |
| 75 | Assessing Fatigue And Stretching Affect On The Achilles Tendon Using Surface Wave Elastography | Salman | Salman | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 188 |
| 337 | Added Mass Effects On Tendon Vibration Under Axial Load | Schmitz | Schmitz | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 189 |
| 349 | Reliability, Validity, And Torque-Angle Curves Of Hip Strength Measurement By Hand-Held Dynamometry | Squier | Squier | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 190 |
| 58 | Comparing Inertial Measurement Unit And Optical Infrared Passive Marker-Based Motion Capture Systems: Studying The Effects Of Subject Preparation Variability | Goehler | Valbuena | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 191 |
| 221 | Changes In Muscle Shear Wave Propagation With Active And Passive Force Generation | Wang | Wang | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 192 |
| 510 | Validity Of The Optogait Portable Photoelectric Cell System For Quantification Of Spatial-Temporal Parameters Of Running Gait | Weart | Weart | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 193 |
| 582 | Does A Rotating Bar Affect The Body Kinematics During A Penny Drop Maneuver? | Yang | Yang | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 194 |
| 396 | Investigation Of Fatigue-Associated Measures: An Exploratory Framework Using Supervised Classification Approach | Zheng | Zheng | Measurements, Validation, and Sensors | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 195 |
| 623 | Does Neck Muscle Fatigue Affect Cervical Intervertebral Kinematics? | Chowdhury | Zhou | Measurements, Validation, and Sensors | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 196 |
| 365 | Patterns Of Erector Spinae Activation And Trunk-Pelvis Kinematics In Persons With Lower Limb Amputation: Influences Of Low Back Pain | Butowicz | Acasio | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 197 |
| 314 | Gait Restoration After A Spinal Cord Injury: A Simulation And Experimental Study Of The Double Support Phase | Alibeji | Alibeji | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 198 |
| 352 | A Reactive Balance Rating Method To Assess Performance After Treadmill-Induced Trip-Like Perturbations | Allin | Allin | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 199 |
| 682 | Postural Stability In Unilateral Transtibial Amputees Using Two Suspension Systyems: Smartpuck Vs Lock And Pin | Alunan | Alunan | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 200 |
| 6 | Effects Of Sound On Static Postural Stability | Soangra | Anderson | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 201 |
| 218 | Preliminary Investigation On The Effects Of Xbox 360 Kinect Training On Gait And Likelihood Of Initiating A Loss Of Balance | Arena | Arena | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 202 |
| 459 | Postural Stability, Vertical Stiffness, And Lower-Extremity Joint Motion During Multi-Direction Single-Legged Jump-Landings | Bond | Bond | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 203 |
| 516 | Perturbation-Evoked Lateral Steps In Older Adults: Why Take Two Steps When One Will Do? | Borrelli | Borrelli | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 204 |
| 353 | Investigation Of Exposure Time On Dynamic Stability Measures During Common Assessment Tasks | Buchholz | Buchholz | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 205 |
| 320 | Influences Of Low Back Pain On The Energy Contributions Of The Hip And Spine During Gait Among Persons With Lower Limb Loss | Butowicz | Butowicz | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 206 |

| | | | | | | | | |
|-----|---|----------------|----------------|-----------------|-----------------|------------|------------|--------|
| 617 | Unwinding The Control Of Walking Turns | Curtze | Curtze | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 207 |
| 8 | Reaction Time Of Young Adult And Middle-Aged Men And Women During A Forward Fall | DeGoede | Donlin | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 208 |
| 547 | Spinal Decompression Surgery On Gait Efficiency And Balance Of Cervical Myelopathy Patients | Russell | Dooley | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 209 |
| 143 | Age-Related Kinetic Imbalances During Gait | Hauselle | Ekanayake | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 210 |
| 520 | Postural Control Measures Between Individuals Who Fall And Recover After An Unexpected Slip | Garner | Garner | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 211 |
| 615 | The Impact Of Obesity On Gait Stability In Older Adults | Gonzalez | Gonzalez | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 212 |
| 351 | Locomotor Stability Effort Changes Maneuver Execution In Incomplete Spinal Cord Injury | Gordon | Gordon | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 213 |
| 341 | The Relationship Between Star Excursion Balance Test Joint Angles Limb Asymmetry And Normalized Reach Distance In 12 Weeks Post Hip Arthroscopy Patients | Hale | Hale | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 214 |
| 374 | Repeated Motor Control Testing Decreases Co-Contraction Index In Healthy Young Adults | Hill | Hill | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 215 |
| 2 | Texting While Walking Influences Step Width | Soangra | Hofstee | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 216 |
| 327 | Smartphone Technology Can Measure Postural Stability And Distinguish Fall Risk In Older Adults | Hsieh | Hsieh | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 217 |
| 645 | The Effect Of Surgical Alignment On Standing Balance In Adult Deformity Patients ,Äi Invariant Density Approach | Hur | Hur | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 218 |
| 198 | Moving Beyond Trips And Slips With Proximal Determinants Of Falls In Older Adults: The Mobilize Boston Study | Kang | Kang | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 219 |
| 654 | Ethnic Differences In Lower Extremity Static And Dynamic Postural Measures As A Potential Risk Factor For Anterior Cruciate Ligament (Acl) Injury | Lee | Kim | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 220 |
| 50 | Balancing Human Driver Posture In Vehicle Under Lateral Motion | Kimpara | Kimpara | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 221 |
| 663 | Joint Angle Coordination Strategies During Rotations In Dance | Lott | Lott | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 222 |
| 208 | A Powered 3D Compass Walker: Energetics And Stability Of Period-1 Gaits | Maiti | Maiti | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 223 |
| 254 | Equilibrium During Single-Leg Standing With Heel Raised Up In Individuals With Ankle Instability | Morikawa | Morikawa | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 224 |
| 622 | The Effect Of Mental Fatigue On Postural Stability | Morris | Morris | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 225 |
| 456 | Changes In Prosthetic Alignment Affect Ground Reaction Force Symmetry And Pain During Sit-To-Stand | Nolasco | Nolasco | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 226 |
| 526 | Protocol For Realistic Virtual Reality Environment That Perturbs Balance | O'Connell | O'Connell | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 227 |
| 659 | Direction And Modality Sensitivity Of Walking Balance To Visual Perturbations | O'Connor | O'Connor | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 228 |
| 150 | Decreased Divergence Of The Trunk Movement Trajectories During Treadmill Walking Is Not Related To Trunk Flexion Of Young Subjects Following Treadmill-Delivered Disturbances Mimicing A Trip | Oludare | Oludare | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 229 |
| 665 | Test-Retest Reliability Of The Sensory Organization Test And Central Sensorimotor Integration (Csmi) Test | Parrington | Parrington | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 230 |
| 140 | Effect Of Speed Control On Global Stability Of A Powered Compass Walker | Patil | Patil | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 231 |
| 215 | Effects Of Weighted Belt On Limit Of Stability During Standing | Choi | Phan | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 232 |
| 135 | Center Of Pressure Response To Visual Perturbations In Virtual Reality | Phillips | Phillips | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 233 |
| 371 | Longitudinal Association Of Standing Balance And Neurodegenerative Biomarkers In A Concussed Athlete: A Case Study | Pryhoda | Pryhoda | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 234 |
| 203 | Visuomotor Error Augmentation Affects Mediolateral Head And Trunk Stabilization During Walking | Franz | Qiao | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 235 |
| 12 | Effectiveness Of Sit To Stand Workstations: A Systematic Review | Radwan | Radwan | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 236 |
| 285 | Dynamics Of Postural Control In Elite Sport Rifle Shooters | Raffalt | Raffalt | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 237 |
| 482 | Dynamics Of Postural Control In Individuals With Lateral Ankle Sprain | Raffalt | Raffalt | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 238 |
| 462 | Reliability Of Sensitive Parameter Estimates In Head Position Tracking | Ramadan | Ramadan | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 239 |
| 157 | Medicine Ball Throw To Evaluate Postural Stability In Persons With Amputation | ROWE | ROWE | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 240 |
| 513 | Rambling-Trembling Decomposition Is Not Sensitive To Intentional Poor Balance | Sandri Heidner | Sandri Heidner | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 241 |
| 303 | A Simple Controller For Running Derived From Step-To-Step Variability | Seethapathi | Seethapathi | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 242 |
| 428 | Effect Of Prophylactic Ankle Bracing On Dynamic Balance | Stephenson | Stephenson | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 243 |
| 527 | Assessment Of Postural Control In Multiple Sclerosis: Identification Of Core Outcome Variables | Sun | Sun | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 244 |
| 233 | Reliability Of A Novel, Clinically-Oriented Approach To Quantify Ankle Proprioception | Teater | Teater | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 245 |

| | | | | | | | | |
|-----|---|----------|--------|-----------------|-----------------|------------|------------|--------|
| 175 | Dynamic Stability During Walking In Children With And Without Cerebral Palsy: A Pilot Study | Crenshaw | Tracy | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 246 |
| 124 | Posture Assessment Of A Chiropractor Performing Side Posture Adjustments: A Pilot Study Using An Inertial Measurement Unit System | Russell | Weiner | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 247 |
| 515 | Lead Leg Recovery Responses Between Individuals Who Fall And Recover After An Unexpected Slip | Wilson | Wilson | Balance/Posture | Friday, Aug. 10 | 4:30:00 PM | 6:00:00 PM | Fr 248 |
| 668 | Relationship Between Muscle Activation And Postural Stability In Persons With Multiple Sclerosis | Zanini | Zanini | Balance/Posture | Friday, Aug. 10 | 3:00:00 PM | 4:30:00 PM | Fr 249 |