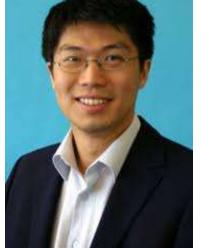






## **Curriculum Vitae**

Personal Information		
Title	Professor	
Name	Denny Oetomo	
Degree	PhD	
Country	Melbourne	
Affiliation	The University of Melbourne	









- 2025, JOURNAL ARTICLE.

  A lower-back focused motion capture and electromyography dataset
- of Australian sheep shearers at work. DOI: 10.1038/s41597-025-05102-9
   2025, JOURNAL ARTICLE.
  Process mining over sensor data: Goal recognition for powered

transhumeral prostheses. DOI: 10.1016/j.is.2025.102540

• 2025, JOURNAL ARTICLE. Load-Side Dynamics Introduces Complex Effects on Orthotic Actuator Performance in Benchmarking. DOI: 10.1115/1.4067431

## **Recent Scholarly Works**

- 2025, JOURNAL ARTICLE.
   Spike-Based Neuromorphic Model of Spasticity for Generation of Affected Neural Activity. DOI: 10.1109/TNSRE.2025.3557044
- 2024, RESEARCH GRANTS (ARC, NHMRC, MRFF)
   Human-Robot Co-Evolution: Achieving the Full Potential of Future Workplaces
- 2020, RESEARCH CONTRACTS
   Mobile Robots for Conveyor Carryback Removal











- 2020. RESEARCH GRANT Task-Centric Synthesis for Wearable Assistive Robots
- 2025, CONFERENCE PROCEEDINGS Using Fitts' Law to Benchmark Assisted Human-Robot Performance. DOI: 10.1109/HRI61500.2025.10973936
- 2025, JOURNAL ARTICLE Ultimate Passivity: Balancing Performance and Stability in Physical Human-Robot Interaction. DOI: 10.1109/TRO.2025.3546856
- 2025. CONFERENCE PROCEEDINGS Determining insertion depth of silica optical fiber-integrated cochlear implant electrode array using optical frequency domain reflectometry. DOI: 10.1117/12.3060799
- 2025 JOURNAL ARTICLE Gait adaptations in step length and push-off force during walking with functional asymmetry. DOI: 10.3389/fbioe.2025.1550710
- 2025, JOURNAL ARTICLE Exploring Interference between Concurrent Skin Stretches. DOI: 10.1109/TOH.2025.3583736











Feasibility study of a game-based virtual reality intervention for functional prosthesis use training: A preclinical assessment. DOI: 10.1097/PXR.000000000000390

## **Recent Projects**

- 2025. RESEARCH GRANTS (ARC, NHMRC, MRFF) Electro-Neural Adaptive Bionic Living Electrode-Interface (ENABLE-i)
- 2025. RESEARCH GRANTS (ARC, NHMRC, MRFF) Muscle-Based Signals for Responsive Physically-Assistive Robotics

## **Latest Honours (Awards and Fellowships)**

- 2014 Norman Curry Award
- 2012 Cornelius Regan Trust Award to pursue a development activity in relation to their work Cornelius Regan Trust Award