



## President's Research Bursaries 2021/22

Supervisor Profile	
<b>Name</b>	Dr James Connolly
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<b>Email</b>	<a href="mailto:James.connolly@lyit.ie">James.connolly@lyit.ie</a>
<b>Current Research Interests</b>	<p>Research projects combine wearable technologies with Artificial Intelligence to improve monitoring accuracy and interpretation of wearable sensor data to correctly determine patient activity throughout initial disease diagnosis and ongoing rehabilitation in an ambulatory environment.</p> <p><b>Keywords:</b> Wearable technologies, artificial Intelligence, Big Data</p>
<b>Career Profile (Education and Employment)</b>	<p>Ulster University – post-doc researcher in several AI and wearable tech posts. Part-time lecturer, PhD student (2011 – 2016) C2k project (NI education department) – technical support manager Ph. D. Engineering, Ulster University (Magee) - 2015 BSc (Hons) Computer Science, DIS; UU (2010)</p>
<b>Key Achievements</b>	<p><b>Special awards</b> (1) Bio Entrepreneur position in C-TRIC 2011, 2013, 2014 (2) TMED Competition Winner 2013 with digitEase system (3) 2013 'Bio-tech' runner up in NISP 25k awards (4) 2 best paper awards at International Research Conferences (5) Teaching hero award 2021.</p> <p><b>Funding</b> - (1) Tyndall National Access Programme Award, €26,000, 2011. "Wearable sensor enabled glove device for measuring finger movement in arthritic patients. (2) Tyndall National Access Programme Award, €25,000, 2014. "Precise finger joint device for range of motion measurement in patients with hand trauma" (3) Co-innovate Programme, €36,000, "Zero Touch Recruit NLP system", 2020. (4) Irish Research Council Government of Ireland Postgraduate Scholarship Programme (2021) €56,000.</p> <p><b>Technical Reviewer</b> for Elsevier Sensors &amp; Actuators: A. Physical, IEEE Sensors, Elsevier Measurement, MDPI Sensors, IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA) and International Journal of Environmental Research and Public Health, ISSC conference reviewer (2020 and 2021).</p> <p>Co-founder on ActionSense project and director of resultant spin-out company.</p> <p>Over 45 published conference and peer reviewed journals</p>
<b>Links to ResearchGate/LinkedIn Profile/ORCID ID</b>	<p>LinkedIn: <a href="https://www.linkedin.com/in/jamesconnollylyit">www.linkedin.com/in/jamesconnollylyit</a> ResearchGate: <a href="https://www.researchgate.net/profile/James_Connolly">https://www.researchgate.net/profile/James_Connolly</a> ORCID 0000-0002-7970-1699</p>