

Andy Kerr
Reader
Biomedical Engineering
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Personal Statement

My primary research interests lie in understanding motor control in neurological conditions and using technology to recover function and independence. This has been shaped from many years as a physiotherapist; practicing, teaching and researching. I am currently working on a number of projects using technology to support and optimise neurorehabilitation. I am particularly interested in the recovery of community mobility. I would be interested in supervising PhD students with an interest in technology enabled rehabilitation.

Employment

Reader
Biomedical Engineering
University Of Strathclyde
United Kingdom
19 Jul 2010 → present

Research outputs

Stroke survivors' interaction with hand rehabilitation devices: observational study

Wodu, C. O., Sweeney, G., Slachetka, M. & Kerr, A., 26 Jun 2024, In: JMIR Biomedical Engineering. 9, 11 p., e54159.

Innovation in rehabilitation technologies post-stroke through image-based deformability cytometry

Hall, N., Howell, J., Pereira Sousa, R. P., Slachetka, M., Rattray, N., Kerr, A. & Jimenez, M., 10 May 2024.

Inflatable bladder for hand rehabilitation

Kerr, A. & Wodu, C., 18 Jan 2024, University of Strathclyde.

Exploring stroke survivors' perspectives on a behaviour change intervention to enrich the effects of technology assisted rehabilitation and enhance self-management

Slachetka, M., Kerr, A., Sweeney, G., Keogh, M., Campbell, R., Boyd, F., Wodu, C. & Rowe, P. J., 4 Dec 2023.

CSP2023: 387 - Exploring the effects of technology enriched rehabilitation and evaluating Stroke Impact Scale(SIS-16), focusing on perception of recovery: a pilot study

Slachetka, M., Kerr, A., Boyd, F., Sweeney, G., Campbell, R., Keogh, M. & Rowe, P. J., 10 Nov 2023.

Annual report 2023: Sir Jules Thorn Co-Creation Centre in Rehabilitation Technology

Kerr, A., Slachetka, M., Keogh, M., Sweeney, G. & Rowe, P., 31 Aug 2023, University of Strathclyde. 16 p.

Technologies available to promote self-administered lower limb and gait rehabilitation for people with chronic stroke: protocol for a systematic review

Boyd, F., Kerr, A., Martin-Smith, R. & Sweeney, G., 14 Aug 2023, 7 p.

An intensive exercise program using a technology-enriched rehabilitation gym for the recovery of function in people with chronic stroke: usability study

Kerr, A., Keogh, M., Slachetka, M., Grealy, M. & Rowe, P., 21 Jul 2023, In: JMIR Rehabilitation and Assistive Technologies. 10, 9 p., e46619.

Rehabilitation Intensity Tracking System: The device has been registered on the University disclosure site as TECH2344
Kerr, A. & Boyd, F., 1 Jun 2023, University of Strathclyde.

Development of tools for post-Stroke data collection - validation of novel fabric EMG sensor, with Arduino-driven data collection, on non-affected participants

Campbell, R., Buis, A. & Kerr, A., 27 Apr 2023, In: *Prosthetics and Orthotics International*. 47, p. 268-268 1 p.

An intensive exercise program using a technology-enriched rehabilitation gym for the recovery of function in people with chronic stroke: usability study (preprint)

Kerr, A., Keogh, M., Slachetka, M., Grealy, M. & Rowe, P., 18 Feb 2023, p. 1-9, 9 p.

Assessing the feasibility of using an online monitored Graded Repetitive Arm Supplementary Programme (GRASP) for home-based chronic stroke survivors

Rollins, L., Grealy, M., Kerr, A. & McGeown, W., 7 Feb 2023, In: *International Journal of Stroke*. 18, Suppl 1, p. 23-23 1 p.

Rehabilitation Intensity Tracking System: Tech ID: TECH2344

Kerr, A. & Boyd, F., 2023, Glasgow : University of Strathclyde.

Verifying a sense of agency with a real-time movement sonification system for stroke survivors with hemiparesis

Nown, T., Kerr, A., Andonovic, I., Grealy, M. & Tachtatzis, C., 9 Nov 2022.

Creating a real-time movement sonification system as an upper-limb rehabilitation intervention for stroke survivors

Nown, T. H., Kerr, A., Andonovic, I., Grealy, M. & Tachtatzis, C., 9 Sept 2022.

Developing a real-time movement sonification system for upper-limb rehabilitation for stroke survivors

Nown, T. H., Kerr, A., Andonovic, I., Grealy, M. A. & Tachtatzis, C., 15 Jul 2022, *44th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*. Piscataway, NJ: IEEE

A mapping review of real-time movement sonification systems for movement rehabilitation

Nown, T. H., Upadhyay, P., Kerr, A., Andonovic, I., Tachtatzis, C. & Grealy, M. A., 1 Jul 2022, In: *IEEE Reviews in Biomedical Engineering*. 16, p. 672-686 15 p.

A co-creation centre for accessible rehabilitation technology

Kerr, A., Grealy, M. A., Kuschmann, A., Rutherford, R. & Rowe, P., 7 Jan 2022, In: *Frontiers in Rehabilitation Sciences: Translational Research in Rehabilitation*. 2, 7 p., 820929.

Investigating the relationships between three important functional tasks early after stroke: movement characteristics of sit-to-stand, sit-to-walk and walking

Chandler, E. A., Stone, T., Pomeroy, V. M., Clark, A. B., Kerr, A., Rowe, P., Ugbohue, U. C., Smith, J. & Hancock, N. J., 14 May 2021, In: *Frontiers in Neurology*. 12, 660383.

Experiences of augmented arm rehabilitation including supported self-management after stroke: a qualitative investigation

Schnabel, S., van Wijk, F., Bain, B., Barber, M., Dall, P., Fleming, A., Kerr, A., Langhorne, P., McConnachie, A., Molloy, K., Stanley, B., Kidd, L. & Young, H. J., 9 Sept 2020, (E-pub ahead of print) In: *Clinical Rehabilitation*. 25 p.

Exploration of barriers and enablers for evidence-based interventions for upper limb rehabilitation following a stroke: use of Constraint Induced Movement Therapy and Robot Assisted Therapy in NHS Scotland

Sweeney, G., Barber, M. & Kerr, A., 26 Mar 2020, (E-pub ahead of print) In: *British Journal of Occupational Therapy*. p. 1-11 11 p.

Biomechanical correlates for recovering walking speed following a stroke. The potential of tibia to vertical angle as a therapy target

Kerr, A., Rowe, P., Clarke, A., Chandler, E., Smith, J., Ugbohue, C. & Pomeroy, V., 29 Feb 2020, In: *Gait and Posture*. 76, p. 162-167 6 p.

Accuracy of a single, thigh-worn inertial measurement unit for detecting turns during indoor and outdoor community walking in unimpaired adults

Kerr, A., Gilmour, L., Doak, L. & Nicholas, S., 18 Dec 2019, In: *Gait and Posture*. 73, Suppl 1, p. 253-254 2 p.

Automated movement feedback for recovering independence in the sit-to-stand movement in an older population: a pilot randomised controlled trial of a novel system

Ho, S. F., Thomson, A., Moylan, T., McGuckin, J. & Kerr, A., 2 Dec 2019, In: *OBM Geriatrics*. 3, 4, 13 p., 1904089.

Community cycling exercise for stroke survivors is feasible and acceptable

Kerr, A., Cummings, J., Barber, M., McKeown, M., Rowe, P., Mead, G., Doucet, A., Berlouis, K. & Grealy, M., 1 Oct 2019, In: *Topics in Stroke Rehabilitation*. 26, 7, p. 485-490 6 p.

Quantifying sit-to-stand and stand-to-sit transitions in free-living environments using the activPAL thigh-worn activity monitor

Pickford, C. G., Findlow, A. H., Kerr, A., Banger, M., Clarke-Cornwell, A. M., Hollands, K. L., Quinn, T. & Granat, M. H., 1 Sept 2019, In: *Gait and Posture*. 73, p. 140-146 7 p.

Treadmill training augmented with real-time visualisation feedback and function electrical stimulation for gait rehabilitation after stroke: a feasibility study

Phongamwong, C., Rowe, P., Chase, K., Kerr, A. & Millar, L., 22 Aug 2019, In: *BMC Biomedical Engineering*. 1, 7 p., 20.

Factors that contribute to the use of stroke self-rehabilitation technologies: a review

Vourganas, I., Stankovic, V., Stankovic, L. & Kerr, A., 15 Aug 2019, In: *JMIR Biomedical Engineering*. 4, 1, 17 p., e13732.

Automation enhancement and accuracy investigation of a portable single-camera gait analysis system

Yang, C., Ugbolue, U. C., McNicol, D., Stankovic, V., Stankovic, L., Kerr, A., Carse, B., Kaliarntas, K. & Rowe, P. J., 30 Jun 2019, In: *IET Science, Measurement and Technology*. 13, 4, p. 563-571 9 p.

Neuromechanical differences between successful and failed sit-to-stand movements and response to rehabilitation early after stroke

Kerr, A., Clark, A. & Pomeroy, V. M., 31 May 2019, In: *Neurorehabilitation and Neural Repair*. 33, 5, p. 395-403 9 p.

An Introduction to Human Movement and Biomechanics

Kerr, A. & Rowe, P., 30 May 2019, 7 ed. Amsterdam. 464 p.

Comparison of the muscle pattern variability during treadmill walking (fixed and self-pace) and overground walking of able-bodied adults

Ibala, E., Coupaud, S. & Kerr, A., 30 May 2019, In: *Journal of Annals of Bioengineering*. 1, p. 1-11 11 p.

Motor relearning principles

Grealy, M. A. & Kerr, A., 17 May 2019, *An Introduction to Human Movement and Biomechanics*. Kerr, A. & Rowe, P. (eds.). 7 ed. Amsterdam, p. 286-294 9 p.

Adoption of stroke rehabilitation technologies by the user community: qualitative study

Kerr, A., Smith, M., Reid, L. & Baillie, L., 17 Aug 2018, In: *JMIR Rehabilitation and Assistive Technologies*. 5, 2, 6 p., e15.

User requirements for an upper limb weight support device for stroke rehabilitation

Collins, R., Kerr, A. & Thomson, A., 6 Jul 2018. 1 p.

Neurobiomechanical differences between successful and unsuccessful sit to stand movements performed by acute stroke patients

Kerr, A., Clark, A. & Pomeroy, V., 3 Jul 2018, In: *Gait and Posture*. 2 p.

Comparison of gait initiated on a treadmill (cued and uncued) and overground in healthy individuals

Boyd, S., Drennan, S., Ferguson, A., Millar, J., Wilcox, M. & Kerr, A., 26 Jun 2018, (E-pub ahead of print) In: *Gait and Posture*. 1 p., P-018.

Adoption of stroke rehabilitation technologies by the user community

Kerr, A. & Rowe, P. J., 30 Nov 2017.

Using low cost sensors to augment an upper limb trainer with automated movement feedback

Collins, R., Tarfali, G. & Kerr, A., 29 Nov 2017.

Sit to stand activity during stroke rehabilitation

Kerr, A., Dawson, J., Robertson, C., Rowe, P. & Quinn, T. J., 18 Sept 2017, In: *Topics in Stroke Rehabilitation*. 24, 8, p. 562-566 5 p.

Development of the FIRST system: feedback Integrated Rehabilitation for Sit-to-stand Training – design, feasibility and usability

Ho, S. F., Thomson, A. & Kerr, A., 19 Jul 2017.

The validation of a therapeutic feedback generation system for evaluating the sit-to-stand performance in stroke survivors

Ho, S. F., Thomson, A. & Kerr, A., 18 Jul 2017.

Technology for training the sit-to-stand movement in stroke survivors: a systematic literature review

Ho, S., Thomson, A. & Kerr, A., 24 May 2017.

A technique to record the sedentary to walk movement during free living mobility: a comparison of healthy and stroke populations

Kerr, A., Rafferty, Hollands, Barber & Granat, 28 Feb 2017, In: *Gait and Posture*. 52, p. 233-236 4 p.

The development and evaluation of a sensor-fusion and adaptive algorithm for detecting real-time upper-trunk kinematics, phases and timing of the sit-to-stand movements in stroke survivors

Ho, S. F., Thomson, A. & Kerr, A., 9 Jan 2017, *2016 International Conference for Students on Applied Engineering, ICSAE 2016*. Al-Shibaany, Z. Y. A. & Hameed, A. F. (eds.). p. 447-451 5 p. 7810233

Changes in the physical activity of acute stroke survivors between inpatient and community living with early supported discharge: an observational cohort study

Kerr, A., Rowe, P., Esson, D. & Barber, M., 1 Dec 2016, In: *Physiotherapy*. 102, 4, p. 327-331 5 p.

A feasibility study of the FIRST system: feedback integrated rehabilitation for sit-to-stand training

Ho, S. F., Thomson, A. & Kerr, A., 30 Nov 2016.

The development and evaluation of a sensor-fusion and adaptive algorithm for detecting real-time upper trunk kinematics, phases and timing of the sit-to-stand movements in stroke survivors

Ho, S. F., Kerr, A. & Thomson, A., 21 Oct 2016.

A depth camera motion analysis framework for tele-rehabilitation: motion capture and person-centric kinematics analysis

Ye, M., Yang, C., Stankovic, V., Stankovic, L. & Kerr, A., 1 Aug 2016, In: *IEEE Journal on Selected Topics in Signal Processing*. 10, 5, p. 877-887 11 p.

Human upper limb motion analysis for post-stroke impairment assessment using video analytics

Yang, C., Kerr, A., Stankovic, V., Stankovic, L., Rowe, P. & Cheng, S., 10 Mar 2016, In: *IEEE Access*. 4, p. 650-659 10 p.

Functional strength training and movement performance therapy produce analogous improvement in sit-to-stand early after stroke: early-phase randomised controlled trial

Kerr, A., Clark, A., Cooke, E. V., Rowe, P. & Pomeroy, V. M., 11 Feb 2016, (E-pub ahead of print) In: *Physiotherapy*. 5 p.

Does stroke location predict walk speed response to gait rehabilitation?

Jones, P. S., Pomeroy, V. M., Wang, J., Schlaug, G., Tulasi Marrapu, S., Geva, S., Rowe, P. J., Chandler, E., Kerr, A. & Baron, J. C., 1 Feb 2016, In: *Human Brain Mapping*. 37, 2, p. 689-703 15 p.

Autonomous gait event detection with portable single-camera gait kinematics analysis system

Yang, C., Ugolue, U. C., Kerr, A., Stankovic, V., Stankovic, L., Carse, B., Kaliarntas, K. T. & Rowe, P. J., 5 Jan 2016, In: *Journal of Sensors*. 2016, 8 p., 5036857.

A randomized controlled evaluation of the efficacy of an ankle-foot cast on walking recovery early after stroke: SWIFT cast trial

Pomeroy, V. M., Rowe, P., Clark, A., Walker, A., Kerr, A., Chandler, E., Barber, M. & Baron, J-C., 1 Jan 2016, In: *Neurorehabilitation and Neural Repair*. 30, 1, p. 40-48 9 p.

Gait analysis using a single depth camera

Ye, M., Yang, C., Stankovic, V., Stankovic, L. & Kerr, A., 1 Dec 2015, *2015 IEEE Global Conference on Signal and Information Processing (GlobalSIP)*. IEEE, p. 285-289 5 p.

Kinematics analysis multimedia system for rehabilitation

Ye, M., Yang, C., Stankovic, V., Stankovic, L. & Kerr, A., Sept 2015, *New Trends in Image Analysis and Processing - ICIAP 2015 Workshops: ICIAP 2015 International Workshops, BioFor, CTMR, RHEUMA, ISCA, MADiMa, SBMI, and QoEM, Genoa, Italy, September 7-8, 2015, Proceedings*. Murino, V., Puppo, E., Sona, D., Cristani, M. & Sansone, C. (eds.). Cham: Springer, Vol. 9281. p. 571-579 9 p. (Lecture Notes in Computer Science; vol. 9281).

Supporting sit-to-stand rehabilitation using smartphone sensors and arduino haptic feedback modules

O'Neil, C., Dunlop, M. D. & Kerr, A., Sept 2015. 8 p.

Supporting sit-to-stand rehabilitation using smartphone sensors and arduino haptic feedback modules

O'Neil, C., Dunlop, M. D. & Kerr, A., 24 Aug 2015, *MobileHCI 2015 - Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct*. New York, p. 811-818 8 p.

The development of a diagnostic platform for the functional evaluation of the sit-to-stand movement in stroke survivors

Ho, S. F., Thomson, A. & Kerr, A., 15 Jul 2015.

Is treadmill walking with virtual reality an acceptable and plausible training modality for stroke survivors?

Kerr, A., Dryden, J., Childs, C., Grealy, M., Murphy, A. & Rowe, P., 12 Jul 2015. 2 p.

Kinect-based lower limb motion analysis

Sarkar, S., Stankovic, L., Kerr, A. & Rowe, P., Jul 2015, (Accepted/In press).

Computerised rehabilitation system for sit-to-stand training in stroke survivors: engaging the users in the design process

Ho, S. F., Thomson, A. & Kerr, A., 9 Jun 2015.

Bad science and how to avoid it, a movement analysis perspective: study design, statistics and publication ethics

Kerr, A., Prescott, R. & Theologis, T., 2015, In: *Gait and Posture*. 42, 3, p. 224-226 3 p.

Upper limb movement analysis via marker tracking with a single-camera system

Yang, C., Kerr, A., Stankovic, V., Stankovic, L. & Rowe, P., 27 Oct 2014, *2014 IEEE International Conference on Image Processing (ICIP)*. IEEE, p. 2285 - 2289 5 p.

Arm movement analysis via marker tracking with a single-camera system

Yang, C., Kerr, A., Stankovic, V., Stankovic, L. & Rowe, P., 6 Jul 2014, p. 1547-1548. 2 p.

The development and validation of an augmented video based portable system

Ugbolue, U., Papi, E., Kaliarntas, K., Kerr, A. & Rowe, P. J., 21 Jun 2014, In: Gait and Posture. 39, Suppl 1, p. S43-S44 2 p.

Measuring fluency: comparison of impaired and unimpaired groups

Kerr, A., Rafferty, D., Dall, P., Rowe, P. & Pomeroy, V., 1 Jun 2014, In: Gait and Posture. 39, Suppl 1, p. S40-S41 2 p.

Validity of simple gait related dual task tests in predicting falls in community dwelling older adults

Muhaidat, J., Kerr, A., Evans, J. J., Pilling, M. & Skelton, D. A., 1 Jan 2014, In: Archives of Physical Medicine and Rehabilitation. 95, 1, p. 58-64 7 p.

Biomechanical analysis of the sit-to-stand movement following knee replacement: a cross-sectional observational study

Kerr, A., Deakin, A. H., Clarke, J. V., Dillon, J. M., Rowe, P. & Picard, F., Aug 2013. 3 p.

Exploring gait-related dual task tests in community-dwelling fallers and non-faller: a pilot study

Muhaidat, J., Kerr, A., Evans, J. J. & Skelton, D. A., 1 Jul 2013, In: Physiotherapy Theory and Practice. 29, 5, p. 351-370 20 p.

The evaluation of an inexpensive, 2D, video based gait assessment system for clinical use

Ugbolue, U. C., Papi, E., Kaliarntas, K. T., Kerr, A., Earl, L., Pomeroy, V. M. & Rowe, P. J., 1 Jul 2013, In: Gait and Posture. 38, 3, p. 483-489 7 p.

The test-retest reliability of gait-related dual task performance in community-dwelling fallers and non-fallers

Muhaidat, J., Kerr, A., Evans, J. J. & Skelton, D. A., 31 May 2013, In: Gait and Posture. 38, 1, p. 43-50 8 p.

Measuring movement fluency during the sit-to-walk task

Kerr, A., Pomeroy, V., Rowe, P., Dall, P. & Rafferty, D., Apr 2013, In: Gait and Posture. 37, 4, p. 598-602 5 p.

Exploring gait-related dual task tests in community-dwelling fallers and non-fallers

Muhaidat, J., Kerr, A. & Skelton, D., 2012, (Accepted/In press) In: Gait and Posture.

The SWIFT Cast trial protocol: a randomized controlled evaluation of the efficacy of an ankle-foot cast on walking recovery early after stroke and the neural-biomechanical correlates of response

Pomeroy, V. M., Rowe, P., Baron, J-C., Clark, A., Sealy, R., Ugbolue, U. C. & Kerr, A., 2012, In: International Journal of Stroke . 7, 1, p. 86-93 8 p.

Validity of measuring the sit to walk movement with an inertial sensor

Kerr, A., Rafferty, D., Dall, P. & Muhaidat, J., 2012, In: Physiotherapy Research International . 1 p.

Intra- and inter- rater reliability measurements of kinematic and temporo-spatial parameters of gait using a simple video technique

Ugbolue, U., Rowe, P., Papi, E., Kerr, A., Earl, L. & Pomeroy, V., 19 Nov 2011, In: Journal of Bioengineering and Biomedical Science . 8 p.

Daily and hourly frequency of the sit to stand movement in older adults: a comparison of day hospital, rehabilitation ward and community living groups

Grant, M., Kerr, A. & Dall, P. M., 1 Oct 2011, In: Aging Clinical and Experimental Research. 23, 5-6, p. 437-444 8 p.

Measuring foot placement and clearance during stair descent

Muhaidat, J., Kerr, A. & Skelton, D., 2011, In: Gait and Posture. 33, 3, p. 504-506 3 p.

Using an optical proximity sensor to measure foot clearance during gait: agreement with motion analysis

Kerr, A., Rafferty, D., Dall, P. M., Smit, P. & Barrie, P., Sept 2010, In: Journal of Medical Devices. 4, 3, 5 p., 031004.

Frequency of the sit to stand task: an observational study of free-living adults

Dall, P. M. & Kerr, A., 31 Jan 2010, In: Applied Ergonomics. 41, 1, p. 58-61 4 p.

Introductory Biomechanics

Kerr, A., 1 Jan 2010, 1 ed. Edinburgh. 166 p.

Older adults' experiences and perceptions of dual tasking

Muhaidat, J., Skelton, D. & Kerr, A., 2010, In: British Journal of Occupational Therapy. 73, 9, p. 405-412 8 p.

Specificity of recumbent cycling as a training modality for the functional movements: sit-to-stand and step-up

Kerr, A., Rafferty, D., Moffat, F. & Morlan, G., Dec 2007, In: Clinical Biomechanics. 22, 10, p. 1104-1111 8 p.

Timing phases of the sit-to-walk movement: validity of a clinical test

Kerr, A., Kerr, K., Durward, B. & Rafferty, D., 2007, In: Gait and Posture. 26, 1, p. 11-16 6 p.

Defining phases for the sit-to-walk movement

Kerr, A., Durward, B. & Kerr, K., May 2004, In: Clinical Biomechanics. 19, 4, p. 385-390 6 p.

Physiotherapy for children with hypermobility syndrome

Kerr, A. & Luqmani, R., 2000, In: Physiotherapy. 86, 6, p. 313-317 5 p.

Activities

International Society of Physical and Rehabilitation Medicine (External organisation)

Andy Kerr (Member)

27 May 2028

Applications of Biomechanics in Rehabilitation and Sports Science

Andy Kerr (Speaker)

5 Jul 2024

Biomechanics in rehabilitation

Andy Kerr (Speaker)

5 Jul 2024

World Federation of Neurorehabilitation (External organisation)

Andy Kerr (Advisor)

1 Jul 2024 → 1 Jul 2025

Rehabilitation in the Community - Supporting our health system and local communities

Andy Kerr (Speaker)

12 Jun 2024

Rebuilding the Brain

Andy Kerr (Recipient)

15 May 2024

PhD external examination

Andy Kerr (Examiner)
22 Mar 2024

World Conference of Neurorehabilitation: 2030 (External organisation)

Andy Kerr (Member)
15 Jan 2024 → 1 Oct 2030

HCM campaigns for fitness sector to assist with stroke rehab

Andy Kerr (Contributor)
9 Jan 2024

PhD external examination appointment, Kings College London

Andy Kerr (Examiner)
9 Jan 2024

A technology enriched, intensive and sustainable model of rehabilitation designed for community delivery

Andy Kerr (Speaker)
4 Dec 2023

A model for co-creating accessible rehabilitation technology

Andy Kerr (Speaker)
10 Nov 2023

Technology based model of stroke rehabilitation

Andy Kerr (Recipient)
5 Oct 2023

Co-creation of Rehabilitation Technology

Andy Kerr (Speaker)
9 Dec 2022

Keynote on Use of Technology in Rehabilitation

Andy Kerr (Speaker)
7 Dec 2022 → 10 Dec 2022

Society for Research in Rehabilitation

Andy Kerr (Chair)
9 Nov 2022

Frontiers in Rehabilitation Sciences (Journal)

Andy Kerr (Associate Editor)
1 Jan 2022 → 1 Jan 2027

New research improving rehabilitation for stroke survivors

Andy Kerr (Recipient)
15 Nov 2021

PhD Thesis exam

Andy Kerr (Examiner)
1 Feb 2021 → 1 Jun 2021

Rehabilitation technology to support mobility in Parkinson's

Andy Kerr (Speaker)
23 Jan 2021

Web Based Physiotherapy for People Undergoing Stroke Rehabilitation

Andy Kerr (Examiner)
26 Oct 2020

Connecting with Industry workshop

Andy Kerr (Consultant)
19 Aug 2020

National Health and Medical Research Council (Australia) (External organisation)

Andy Kerr (Advisor)
14 Apr 2020 → 30 Jul 2020

MioTag

Andy Kerr (Contributor)
6 Apr 2020

Stroke Rehabilitation Biodesign Event

Andy Kerr (Participant)
27 Feb 2020

Stroke Rehabilitation Biodesign Workshop

Andy Kerr (Organiser)
27 Feb 2020

NHS National Institute for Health Research NIHR (External organisation)

Andy Kerr (Advisor)
1 Jan 2020 → ...

West of Scotland Geriatric Medicine training day

Andy Kerr (Speaker)
16 Dec 2019

Clinical Gait Analysis

Andy Kerr (Consultant)
28 Nov 2019

ICAMPAM

Andy Kerr (Keynote/plenary speaker)
25 Jun 2019

Strathclyde Stroke Arm Support

Andy Kerr (Contributor)
29 Apr 2019

Society for Research in Rehabilitation (External organisation)

Andy Kerr (Member)
1 Feb 2019 → 1 Feb 2024

Kings College London

Andy Kerr (Visiting lecturer)
2019 → ...

Scottish Stroke Alliance

Andy Kerr (Speaker)
22 Oct 2018

University of Glasgow

Andy Kerr (Visiting lecturer)
1 Oct 2018 → 20 Nov 2023

Novel rehabilitation technologies

Andy Kerr (Speaker)
19 Jan 2018

Novel technologies for gait rehabilitation in Parkinson's Disease

Andy Kerr (Speaker)
2018

Queen Margaret University

Andy Kerr (Visiting researcher)
2018 → ...

University of Central Lancashire

Andy Kerr (Visiting researcher)
2018 → ...

University of Salford

Andy Kerr (Visiting researcher)
2018 → ...

Cycling for recovery of lower limb function in chronic stroke survivors

Andy Kerr (Speaker)
30 Nov 2017

UK Stroke Forum 2017

Andy Kerr (Invited speaker)
30 Nov 2017

Technology in stroke rehabilitation

Andy Kerr (Speaker)
28 Oct 2017

TED Talk

Andy Kerr (Invited speaker)
28 Nov 2016

WCPT-ER

Andy Kerr (Invited speaker)
11 Nov 2016

Geriatric Research Seminar

Andy Kerr (Invited speaker)
5 Oct 2015

Invited seminar talk on visualisation of biomechanics in stroke

Andy Kerr (Invited speaker)
9 Sept 2015

Rehabilitation technology in stroke

Andy Kerr (Invited speaker)

1 Jul 2015

Prizes

Best paper prize at 2013 conference

Kerr, Andy (Recipient), 9 Sept 2013

CPD course development competition winner

Kerr, Andy (Recipient), 2 Sept 2017

Grade A (Outstanding) assessment of KTP project: University of Strathclyde and PAL Technologies Limited

Kerr, Andy (Recipient), 30 Jul 2018

Nominated for Higher Education Awards

Kerr, Andy (Recipient), 31 May 2022

Awards

Technology-Enriched Integrated Rehabilitation - Development and evaluation of an integrated approach to speech and language therapy and physiotherapy for stroke survivors (CT23-20)

Kuschmann, A. & Kerr, A.

Cunningham Trust: £75,654.00

16/09/24 → 15/09/27

Projects

£12,262,72k HaSS Bridging Disciplines: "Predicting healthy ageing and age-related disorders using the UK Biobank Database" Successfully funded

McGeown, W., Mavroei, A., Parra Rodriguez, M., Brown Nicholls, L., Rasmussen, S., Robertson, D., Tse, D., Kirk, A., Hafford-Letchfield, T., Rattray, N., Bushell, T., Gould, G., GANGANNAGARIPALLI, J., Carswell, H., Tate, R., Kurdi, A., Lennon, M., Moshfeghi, Y., Roper, M., McConnell, G., Kerr, A., Li, D., Thomson, A., Campbell, G., Vourganas, I., Clark, R. & Macdonald, M.

8/03/23 → 9/11/25

BTG: Development of a visually immersive gait training system for use in the walking rehabilitation of stroke survivors combining the scientific disciplines of biomechanics and motor learning

Kerr, A., Greal, M., Stankovic, V., Murphy, A. J., Childs, C. & Rowe, P.

3/03/14 → 31/12/14

Centre for Excellence in Rehabilitation Research | Campbell, Rhona

Kerr, A., Buis, A. & Campbell, R.

EPSRC (Engineering and Physical Sciences Research Council)

1/10/19 → 1/10/23

Current levels of sit to stand practice among stroke survivors during rehabilitation and exploring limiting factors.

Kerr, A.

Chest,Heart and Stroke Scotland

1/01/14 → 31/12/16

Development of the Centre for Co Creation of Rehabilitation Technology (CCRT)

Kerr, A. & Rowe, P.

Chest,Heart and Stroke Scotland

1/09/22 → 31/08/24

Doctoral Training Partnership 2018-19 University of Strathclyde | Keogh, Maisie

Rowe, P., Kerr, A. & Keogh, M.
EPSRC (Engineering and Physical Sciences Research Council)
1/10/19 → 1/04/23

Doctoral Training Partnership (DTP 2016-2017 University of Strathclyde) | Puglisevich Chase, Karen

Kerr, A., Rowe, P. & Puglisevich Chase, K.
EPSRC (Engineering and Physical Sciences Research Council)
1/10/16 → 1/04/20

EPSRC Centre for Doctoral Training in Medical Devices and Health Technologies | Collins, Ross

Kerr, A., Thomson, A. & Collins, R.
EPSRC (Engineering and Physical Sciences Research Council)
1/10/15 → 8/12/21

EPSRC Centre for Doctoral Training in Medical Devices and Health Technologies | Skivington, James

Rowe, P., Kerr, A. & Skivington, J.
EPSRC (Engineering and Physical Sciences Research Council)
1/09/13 → 20/02/18

EPSRC Centre for Doctoral Training in Prosthetics & Orthotics | Campbell, Rhona

Kerr, A., Buis, A. & Campbell, R.
1/10/19 → 1/10/23

EPSRC IAA: Power Assisted Exercise Machines to Increase Rehabilitation Intensity of Sub-Acute Stroke In-Patients

Kerr, A.
EPSRC (Engineering and Physical Sciences Research Council)
1/04/22 → 31/03/25

Feasibility of a randomised controlled trial of a community based, cycling exercise programme to improve physical and psychological outcomes in stroke survivors

Grealy, M., Kerr, A. & Rowe, P.
Chief Scientist's Office CSO
1/11/14 → 30/04/16

Innovation in rehabilitation technologies through multimodal blood analysis

Jimenez, M., Kerr, A. & Rattray, N.
EPSRC (Engineering and Physical Sciences Research Council)
27/02/23 → 31/03/25

KTP - PAL Technologies

Kerr, A.
KTP Govt (TSB), PAL Technologies Limited
1/10/15 → 31/03/18

Low-cost and computerised alignment system for below knee prosthesis in low and middle income countries

KHUNDI, E., Rowe, P. & Kerr, A.
1/02/17 → 6/06/21

Medical Devices Doctoral Training Centre Renewal | Ho, Siu Fai

Kerr, A., Thomson, A. & Ho, S.
EPSRC (Engineering and Physical Sciences Research Council)
1/10/13 → 4/06/19

Medical Devices Doctoral Training Centre Renewal | Skivington, James

Rowe, P., Kerr, A. & Skivington, J.
EPSRC (Engineering and Physical Sciences Research Council)
1/09/13 → 20/02/18

Occupational Biomechanics with the proposed topic centered on Musculoskeletal pain among static workforce

Kerr, A.
1/02/21 → 1/08/24

Physical activity of stroke patients discharged with ESD

Kerr, A. & Rowe, P.
Chest, Heart and Stroke Scotland
1/04/13 → 31/12/14

Supporting Sit-To-Stand Rehabilitation Using Smartphone Sensors to provide tactile feedback

Kerr, A. & Dunlop, M.
Chest, Heart and Stroke Scotland
2/11/15 → 1/11/16

Technological platform for AHPs for AHP directorate SE | Gerards, Tom

Rowe, P., Kerr, A. & Gerards, T.
EPSRC (Engineering and Physical Sciences Research Council)
1/10/13 → 9/11/18

Technology-Enriched Integrated Rehabilitation - Development and evaluation of an integrated approach to speech and language therapy and physiotherapy for stroke survivors (CT23-20)

Kuschmann, A. & Kerr, A.
Cunningham Trust
16/09/24 → 15/09/27

Texo-Skeleton: transforming everyday clothing into self-adaptable exoskeleton for musculoskeletal rehabilitation

Kerr, A.
EPSRC (Engineering and Physical Sciences Research Council)
1/09/23 → 31/07/24

ACCESS: The feasibility of a cycling exercise programme for stroke survivors

Kerr, A., Grealy, M. & Rowe, P.

CCRT: The Sir Jules Thorn Centre for Co-Creation of Rehabilitation Technology

Kerr, A.
17/12/20 → 17/12/25

Truck 2 year follow-up and health economics | Keogh, Maisie

Rowe, P., Kerr, A. & Keogh, M.
1/10/19 → 1/04/23

Truck 2 year follow-up and health economics | Kerr, Ruaridh

Rowe, P., Kerr, A. & Kerr, R.
EPSRC (Engineering and Physical Sciences Research Council)
1/10/20 → 1/04/24

Using the Kinect optical sensor to track functional movements of the hand: Testing a new model for application in stroke rehabilitation

Kazakidi, A. & Kerr, A.
20/12/16 → 4/08/17

Virtual soundscapes for audiology diagnostics
Giardini, M. E. & Kerr, A.
Cochlear Europe Limited, Medical Research Scotland
1/10/22 → 30/09/26

Impacts