

Chris Ugbolue
Lecturer
School of Health and Life Sciences
Clinical Exercise Science
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Employment

Lecturer

Lecturer
School of Health and Life Sciences
University of the West of Scotland
1 Sep 2012 → present

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Clinical Exercise Science
University of the West of Scotland
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Institute for Clinical Exercise and Health Science
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1 Sep 2012 → present

Honorary Research Fellow in Rehabilitation Science, Department of Biomedical Engineering, University of Strathclyde, Glasgow, UK

1 Sep 2012 → present

Research output

Mechanical character of lower limb for table tennis cross step maneuver

Shao, S., Yu, C., Song, Y., Baker, J. S., Ugbolue, U. C., Lanzoni, I. M. & Gu, Y., 5 May 2020, In : International Journal of Sports Science and Coaching. 10 p.

Effect of consecutive jumping trials on metatarsophalangeal, ankle, and knee biomechanics during take-off and landing

Lam, W-K., Jia, S-W., Baker, J. S., Ugbolue, U. C., Gu, Y. & Sun, W., 3 Mar 2020, In : European Journal of Sport Science.

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

Kerr, A., Rowe, P. J., Clark, A., Chandler, E., Smith, J., Ugbolue, C. & Pomeroy, V. M., 29 Feb 2020, In : Gait & Posture. 76, p. 162-167 6 p.

Intra-session and inter-day reliability of the Myon 320 electromyography system during sub-maximal contractions

Sorbie, G. G., Williams, M. J., Boyle, D. W., Gray, A., Brouner, J., Gibson, N., Baker, J. S., Easton, C. & Ugbolue, U. C., 29 Feb 2020, *Wearable Sensor Technology for Monitoring Training Load and Health in the Athletic Population*. Sperlich, B., Holmberg, H-C. & Aminian, K. (eds.). Frontiers Media, p. 171-177 7 p. (Frontiers Research Topics).

Is there a relationship between strike pattern and injury during running: a review

Zhou, H. & Ugbolue, U. C., 30 Dec 2019, In : Physical Activity and Health. 3, 1, p. 127-134 8 p.

A biomechanical analysis of golf swings and putt

Ugbolue, U. C., 29 Nov 2019, p. 31-32. 2 p.

Sex differences in heel pad stiffness during a standing heel-rise task

Ugbolue, U. C., Yates, E. L., Lam, W-K., Valentin, S., Baker, J. S. & Gu, Y., 31 Jul 2019.

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. T. & Rowe, P. J., 1 Jun 2019, In : IET Science, Measurement & Technology. 13, 4, p. 563-571 9 p.

Analysis of the X-Factor and X-Factor stretch during the completion of a golf practice session in low-handicap golfers

Sorbie, G. G., Gu, Y., Baker, J. S. & Ugbolue, U. C., 1 Dec 2018, In : International Journal of Sports Science and Coaching. 13, 6, p. 1001-1007 7 p.

An electromyographic study on the effects of slope and distance constraints on forearm muscle activity during golf putting

Finnie, K. P., Valentin, S., Gu, Y., Baker, J. S. & Ugbolue, U. C., 8 Jul 2018, p. P2155-P2155. 1 p.

Activation of the gluteus maximus during performance of the back squat, split squat and barbell hip thrust and the relationship with maximal sprinting

Williams, M., Gibson, N., Sorbie, G. G., Ugbolue, U., Brouner, J. & Easton, C., 24 May 2018, In : Journal of Strength and Conditioning Research.

Intra-session and inter-day reliability of the Myon 320 Electromyography System during sub-maximal contractions

Sorbie, G. G., Williams, M. J., Boyle, D. W., Gray, A., Brouner, J., Gibson, N., Baker, J. S., Easton, C. & Ugbolue, U. C., 29 Mar 2018, In : Frontiers in Physiology. 9

Comparison of thoracic and lumbar erector spinae muscle activation before and after a golf practice session

Sorbie, G. G., Grace, F. M., Gu, Y., Baker, J. S. & Ugbolue, U. C., 31 Aug 2017, In : Journal of Applied Biomechanics. 33, 4, p. 288-293 6 p.

Commercial golf glove effects on golf performance and forearm muscle activity

Sorbie, G. G., Darroch, P., Grace, F. M., Gu, Y., Baker, J. S. & Ugbolue, U. C., 18 Aug 2017, In : Research in Sports Medicine. 25, 4, p. 451-461 11 p.

Compliance measurements of the carpal tunnel complex

Ugbolue, U. C., Carter, M., Gislason, M. K., Fogg, Q. A., Riches, P. E. & Rowe, P. J., 23 Jul 2017.

Electromyographic analyses of the erector spinae muscles during golf swings using four different clubs

Sorbie, G. G., Grace, F. M., Gu, Y., Baker, J. S. & Ugbolue, U. C., 8 Jun 2017, In : Journal of Sports Sciences. p. 1-7 7 p.

The efficacy of the augmented video-based portable system as a useful clinical tool to complement rehabilitation

Ugbolue, U., Purdie, S. J., Sculthorpe, N., Paterson, D. R., Henriquez, F., Baker, J., Wall, J. C. & Rowe, P. J., 5 Jan 2017, In : Insights in Biomedical Engineering. 1, 1, p. 1-7

An evaluation of club angle parameters during golf swings using low cost video analyses packages

Hunter, H., Sorbie, G., Grace, F., Gu, Y., Baker, J. S. & Ugbolue, U. C., Oct 2016, *Proceedings of the Sixth Asian Society of Sport Biomechanics Conference (ASSB 2016): Asian Sport Biomechanics Research Trend, Ningbo, China, October. 13-16, 2016*. Li, J. & Gu, Y. (eds.). IACSIT Press, p. 191-191 1 p. TC66

Does an augmented video based portable system have a place in orthopaedics and sports injury rehabilitation?

Ugbolue, U. C., Purdie, S., Paterson, D., Sculthorpe, N. & Rowe, P. J., Oct 2016, *Proceedings of the Sixth Asian Society of Sport Biomechanics Conference (ASSB 2016): Asian Sport Biomechanics Research Trend Ningbo, China, October. 13-16, 2016*. Li, J. & Gu, Y. (eds.). Singapore: IACSIT Press, p. 90-90 1 p. IR14

Reliability of forearm muscle electromyography data during multi-planar maximum voluntary contraction grip and wrist articulation

Hunter, H., Sorbie, G., Grace, F., Gu, Y., Baker, J. S. & Ugbole, U. C., Oct 2016, *Proceedings of the Sixth Asian Society of Sport Biomechanics Conference (ASSB 2016): Asian Sport Biomechanics Research Trend, Ningbo, China, October. 13-16, 2016*. Li, J. & Gu, Y. (eds.). IACSIT Press, p. 115-115 1 p. IR39

The effect the commercial golf glove has on golf performance variables

Sorbie, G., Darroch, P., Grace, F., Gu, Y., Baker, J. S. & Ugbole, U. C., Oct 2016, *Proceedings of the Sixth Asian Society of Sport Biomechanics Conference (ASSB 2016): Asian Sport Biomechanics Research Trend Ningbo, China, October. 13-16, 2016*. Li, J. & Gu, Y. (eds.). IACSIT Press, p. 37-37 1 p.

An electromyographic study of the effect of hand grip sizes on forearm muscle activity and golf performance

G. Sorbie, G., Hunter, H. H., Grace, F. M., Gu, Y., Baker, J. S. & Ugbole, U. C., 2 Jul 2016, In : *Research in Sports Medicine*. 24, 3, p. 207-218 12 p.

The Effect of Dynamic and Static Stretching on Golf Driving Performance

Sorbie, G. G., Baker, J., Gu, Y. & Ugbole, U., 11 Jan 2016, In : *International Journal of Sports and Exercise Medicine*. 2, 1, 035.

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

Yang, C., Ugbole, U., Kerr, A., Stankovic, V., Stankovic, L., Carse, B., Kaliarntas, K. T. & Rowe, P. J., 5 Jan 2016, In : *Journal of Sensors*. 2016, p. 1-8 8 p.

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., Anderson, L., Dounavi, M-D., Earl, L., Gregory, S., Havis, C., Horton, S., Jones, P. S., Kaliarntas, K., Kennedy, N., Lane, K., Legg, D., Marrapu, S. T. & 5 others, McColl, E., Moran, H., Schutt, H., Smith, J. & Ugbole (sic), U. C., 1 Jan 2016, In : *Neurorehabilitation and Neural Repair*. 30, 1, p. 40-48 9 p.

Do hand grip sizes influence forearm muscle activity and golf performance during golf swings?

Sorbie, G., Hunter, H., Grace, F., Gu, Y., Baker, J. S. & Ugbole, U. C., 2016, *Proceedings of the Sixth Asian Society of Sport Biomechanics Conference (ASSB 2016): Asian Sport Biomechanics Research Trend, Ningbo, China, October 13-16, 2016*. Li, J. & Gu, Y. (eds.). IACSIT Press, p. 192-192 1 p. TC67

Tensile properties of the transverse carpal ligament and carpal tunnel complex

Ugbole, U. C., Gislason, M. K., Carter, M., Fogg, Q. A., Riches, P. E. & Rowe, P. J., Aug 2015, In : *Clinical Biomechanics*. 30, 7, p. 649-656

Tensile properties of the transverse carpal ligament in-situ

Ugbole, U. C., Fogg, Q. A. & Gislason, M. K., 17 Jun 2015, p. 80-80. 1 p.

A foot morphology-related loading character of habitually unshod and shod runners

Mei, Q., Yu, L., Baker, J., Ugbole, U. & Gu, Y., 2015.

A temporo-spatial evaluation of a standardised rehabilitation regime designed for an adult cerebral palsy patient

Ugbole, U., Henriquez-Mui, F. & Rowe, P., 2015.

Golf driving performance: the effect of dynamic and static stretching warm up routines

Sorbie, G., Ugbole, U. & Grace, F., 2015.

The plantar pressure characteristics of right-forward lunge step of professional-levelled and amateur-levelled badminton players

Yu, L., Mei, Q., Baker, J. & Ugbole, U., 2015.

106 A Novel Method To Determine The Tensile Properties Of The Transverse Carpal Ligament In-situ
Ugbolue, U. C., Gislason, M. & Fogg, Q., 2014, In : British Journal of Sports Medicine. 48, Suppl 2, p. A69-A70

An assessment of hand volumetric and temperature changes during office related repetitive activities
Ugbolue, U. C. & Nicol, A. C., 2014, In : Work: A Journal of Prevention, Assessment & Rehabilitation. 48, 1, p. 53-64

Comparative study of a newly cluster based method for gait analysis and plug-in gait protocol
Papi, E., Ugbolue, U. C., Solomonidis, S. & Rowe, P. J., 2014, In : Gait & Posture. 39, p. S9-S10

The development and validation of an augmented video based portable system
Ugbolue, U. C., Papi, E., Kaliarntas, K., Kerr, A. & Rowe, P. J., 2014, In : Gait & Posture. 39, p. S43-S44

A pilot study to determine the tensile properties of the transverse carpal ligament
Ugbolue, U. C., Gislason, M. K., Fogg, Q. A., Carter, M., Riches, P. E. & Rowe, P. J., 4 Aug 2013.

Biomechanical properties of the transverse carpal ligament and overlying soft tissue layers
Ugbolue, U. C., Fogg, Q. A., Carter, M., Riches, P. E. & Rowe, P. J., 4 Aug 2013.

Knee stiffness following total knee arthroplasty: comparison of computer assisted surgery and conventional technique
Russell, D., Ugbolue, C., Smith, J., Blyth, M. & Rowe, P., 4 Aug 2013.

Multiple marker tracking in a single-camera system for gait analysis
Yang, C., Ugbolue, U., Carse, B., Stankovic, V., Stankovic, L. & Rowe, P., 4 Aug 2013.

Static versus dynamic stretching in relation to improving golf driving performance
Sorbie, G. & Ugbolue, U. C., 4 Aug 2013.

System dependent differences in the accuracy of gait kinematics: a comparison of a modern 12 camera Vicon MX-Giganet system with an older 8 camera Vicon 612 system
Papi, E., Ugbolue, U. C. & Rowe, P. J., 4 Aug 2013.

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., Jul 2013, In : Gait & Posture. 38, 3, p. 483-489

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., Ugbolue, U. & Picard, F., 2013.

Multiple marker tracking in a single-camera system for gait analysis
Yang, C., Ugbolue, U., Carse, B., Stankovic, V., Stankovic, L. & Rowe, P., 2013, *2013 IEEE International Conference on Image Processing*. IEEE, p. 3128-3131 4 p. (IEEE International Conference on Image Processing ICIP).

Contact force measurement at the radiosaphoid following radiolunate fusion: a cadaveric simulation
Gillespie, J., Gislason, M. K., Ugbolue, U. C. & Hems, T. E. J., Apr 2012.

Reliability of a set of protractors for direct anatomical measurements around the glenoid and humeral head rims
Amadi, H. O., Fogg, Q. A., Ugbolue, U. C., Emery, R. J. H. & Bull, A. M. J., Mar 2012, In : Journal of Anatomy. 220, 5, p. 525-528 4 p.

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., Jan 2012, In : International Journal of Stroke. 7, 1, p. 86-93 8 p.

A wrist tendon travel assessment of hand movements associated with industrial repetitive activities

Ugbolue, U. C. & Nicol, A. C., 2012, In : Work: A Journal of Prevention, Assessment & Rehabilitation. 42, 3, p. 311-320 10 p.

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

Ugbolue, U. C., Papi, E., Kerr, A., Earl, L., Pomeroy, V. M. & Rowe, P. J., 19 Nov 2011, In : Journal of Bioengineering & Biomedical Science. S1, 003.

Biomechanical properties of the carpal tunnel complex

Ugbolue, C., Carter, M., Fogg, Q. A., Riches, P. E. & Rowe, P. J., Sep 2011.

Gait and trunk movement patterns of low back pain patients and healthy volunteers during supported and conventional treadmill walking

Kaliarntas, K. T., Riches, P. E., Ugbolue, U. C. & Rowe, P. J., Jul 2011.

A comparison of two interventions designed to promote neutral wrist postures during simple computer operations

Ugbolue, U. C. & Nicol, A. C., 2010, In : Work: A Journal of Prevention, Assessment & Rehabilitation. 37, 4, p. 413-424 12 p.

Joint posture, volumetric and temperature changes during repetitive hand movements

Ugbolue, U. C. & Nicol, A. C., 2010, In : Occupational Ergonomics. 9, 3-4, p. 153-168 16 p.

Concurrent validity and test-retest reliability of the polhemus liberty for the measurement of spinal range of motion

Kaliarntas, K. T., Ugbolue, U. C., Riches, P. E. & Rowe, P. J., 5 Jul 2009.

Development and validation of an electrogoniometric wrist alignment device

Ugbolue, U. C., Nicol, A. C. & Maclean, J., Jul 2008, In : Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine. 222, 5, p. 637-646 10 p.

A morphometric assessment of the carpal tunnel contents during pinching

Ugbolue, C., Nguyen, T. D., Wang, Y. & Li, Z-M., Feb 2005, *Transactions of the 51st Annual Meeting of the Orthopaedic Research Society: Washington, D.C., February 20-23, 2005*. Orthopaedic Research Society, Vol. 30. (Transactions of the annual meeting of the Orthopaedic Research Society; vol. 30).

Tendon and nerve displacement at the wrist during finger movements

Ugbolue, U. C., Hsu, W-H., Goitz, R. J. & Li, Z-M., Jan 2005, In : Clinical Biomechanics. 20, 1, p. 50-56 7 p.

A kinematic study of mouse scrolling

Ugbolue, U. C., Christophel, T. H., Baker, N. A. & Li, Z-M., 2005. 1 p.

Morphometric changes of carpal tunnel contents during pinching

Ugbolue, C., Nguyen, T. D., Wang, Y. & Li, Z-M., 2004, In : The Pittsburgh Orthopaedic Journal. 15, p. 138-139 2 p.

Tendon and nerve displacement at the carpal tunnel during finger movements

Ugbolue, U. C., Hsu, W-H., Goitz, R. J. & Li, Z-M., 2004, In : The Pittsburgh Orthopaedic Journal. 15, p. 140-141 2 p.

Awards

CEPS IV Hand Rehabilitation Device Feasibility Study for Ho Ho Design

Ugbolue, C., Abdel-Wahab, A. & Vichare, P.
10/12/18 → 1/03/19