## **Dr Stuart McErlain-Naylor**

Lecturer in Sport and Exercise Biomechanics School of Sport, Exercise and Health Sciences (SSEHS), Loughborough University, Loughborough, UK s.a.mcerlain-naylor@lboro.ac.uk, stuartmcnaylor.com, ORCiD: 0000-0002-9745-138X **Description of current post** An open-ended full-time Research, Teaching and Enterprise (RTE) employment with no end date. **Previous posts** 2022 -Lecturer in Sport and Exercise Biomechanics, Loughborough University, UK (RTE) 2022 -Visiting Senior Fellow in Sport Science, University of Suffolk, UK Senior Lecturer in Sport and Exercise Biomechanics, University of Suffolk, UK (RTE) 2021 – 2022 2018 – 2021 Lecturer in Sport and Exercise Biomechanics, University of Suffolk, UK (RTE) Research Associate / Translational Scientist in Sports Biomechanics, Loughborough University, UK 2018 Technical Tutor (Biomechanics and Motor Control), Loughborough University, UK (Teaching) 2016 - 2017 2013 – 2018 University Teacher, Loughborough University, UK **Educational gualifications** PhD in Computer Simulation of Sports Biomechanics, Loughborough University, UK 2017 2020 Postgraduate Certificate in Academic Practice (75%), University of Suffolk, UK 2013 BSc Sport and Exercise Sciences (Honours 1st Class; 88%), Loughborough University, UK Awards 2023 Senior Fellow of the Higher Education Academy (SFHEA) 2020 Fellow of the Higher Education Academy (FHEA) 2020 People's Choice Award (Favourite Presentation), International Society of Biomechanics in Sports (ISBS) 2019 Personal Tutor of the Year (Nomination), University of Suffolk, UK Best Poster Presentation, Biomechanics Interest Group, BASES 2015 Glendonbrook Doctoral Fellowship, Lord Glendonbrook, Loughborough University, UK 2013 Dean of School Undergraduate Prize (final-year student with the best performance), SSEHS 2013 G V Sibley Memorial Prize (best final-year student on Sport and Exercise Science programme), SSEHS 2013 2013 Loughborough University Development Trust Prize (an outstanding final year student), SSEHS 2012 Loughborough University Development Trust Prize (an outstanding second year student), SSEHS University management positions Programme Leader: BSc (Hons) Sport and Exercise Science, Loughborough University 2023 -2023 -Research Theme Seminar Lead: Sport Performance, SSEHS, Loughborough University 2021 – 2022 Co-Lead: Sport Performance and Exercise Sciences Research Theme, University of Suffolk 2019 – 2021 Course Leader: BSc (Hons) Sport and Exercise Science, University of Suffolk Other university committee positions 2023 -National Rehabilitation Centre, Prevention and Rehabilitation Research Theme Member 2019 - 2022 Senate. University of Suffolk 2021 – 2022 School Executive Committee, School of Health and Sports Sciences, University of Suffolk 2020 – 2021 Assessment and Regulation Working Group, University of Suffolk 2019 - 2022 Research Ethics Committee, School of Health and Sports Sciences, University of Suffolk Membership 2020 -International Society of Biomechanics in Sports (ISBS) 2017 -International Society of Biomechanics (ISB) 2019-The British Association of Sport and Exercise Sciences (BASES) Teaching and research supervision 2019 -1 Post-Doctoral Fellow, 13 PhD (3 completed, 2 submitted), 3 PhD examinations 2018 -Dissertation supervisor at undergraduate and postgraduate level for over 15 students MSc, Module Leader PSP333, Emerging Digital Health Technologies, 27 students 2024 -Year 3 BSc, Module Leader PSC725, Advanced Motor Control of Sports Movements, 103 students 2022 -2018 – 2022 Module Leader for 9 undergraduate modules (maximum 4 per year), University of Suffolk **Professional appointments** Vice President (Publications), International Society of Biomechanics in Sports (ISBS) 2021 -2021 -Board of Directors, International Society of Biomechanics in Sports (ISBS) 2020 -Publications Committee, International Society of Biomechanics in Sports (ISBS) 2023 -Chair of Organising Committee, 2026 ISBS Annual Conference, Loughborough, UK Organiser and Host, ISBS Sports Biomechanics Lecture Series 2020 2021 – 2024 Organising Committee, ISBS Mid-Year Symposia (2021, 2022, 2023, 2024) **ISBS Teaching Initiative Working Group** 2021 -2014 – 2017 Student Board Member, ISB Technical Group on Computer Simulation 2016 – 2017 Organising Committee, XVI International Symposium on Computer Simulation in Biomechanics 2022 – 2023 Scientific Committee, XXIX Congress of International Society of Biomechanics 2021 -External Examiner, BSc (Hons) Sport and Exercise Science, University of Hull

- 2021 Editorial Advisor, Sport Performance Section, Routledge Encyclopedia of Sport Studies
- 2022 Research Topic Editor, Frontiers in Sports and Active Living

2019 – 2019 – 2023	Special Issue Editor, Sports Editorial Board, Sports Biomechanics Social Media Editor, Sports Biomechanics			
		Review Editor, Frontiers in Sports and Active Living		
	Reviewer Board Member, Applied Sciences			
2022 -	Advisory Committee on Social Media for Expert Communities, Taylor & Francis			
2022 -	Co-Organiser and Host, Experts in Sport Podcast, Loughborough University			
2022	England Netball Rules Review Panel			
2017 – 2015 –	5 sessions chaired at international conferences > 120 reviews for 27 journals (Web of Science) + 2 grants			
		ations and workshops		
2022	2nd Mid-Year Symposium, International Society of Biomechanics in Sports			
2022	40th International Society of Biomechanics in Sport Conference, Liverpool, UK (Workshop)			
2022	The British Association of Sport and Exercise Sciences, Biomechanics Interest Group Virtual Conference			
2022	Global Sports Medicine & Science Conclave (Panel Discussion)			
2022	Taylor & Francis Engagement and Impact			
2022	Department of Education, University of Oxford, UK			
2021	XIX Brazilian Congress of Biomechanics			
2021	XXVIII Congress of the International Society of Biomechanics (Panel Discussion)			
2021	JASP Users Meeting			
2021	SHAPE Research Group, Nottingham Trent University, UK			
2020	ISBS Sports Biomechanics Lecture Series			
2019		inetic Medical Group Conference, London, UK (Workshop)		
2019	Allied Heal	th Professionals Suffolk's 1st Symposium, Suffolk, UK		
Research gra	ants and in-	kind contributions (totalling over £275,000, PI unless stated)		
2023 –	£56,425	National Football League		
2013 – 2016	£56,000	The Glendonbrook Foundation, PhD Studentship (Student Applicant)		
2020	£38,500	STATSports Group Ltd (In-Kind, PI: M. Beato)		
2023 – 2026	£36,000	English Institute of Sport and UK Athletics (PI: V. Tolfrey)		
2022	£30,933	Vicon Ltd (In-Kind)		
2021	£26,400	Vicon Ltd (In-Kind)		
2022	£16,985	STATSports Group Ltd (In-Kind)		
2021	£10,742	Badminton World Federation		
2021 – 2023	£4,000	Newman University (PI: T. Myers)		
2021	£3,000	University of Suffolk Annual Fund (PI: M. Beato)		
2022	£2,500	International Sports Engineering Association		
2020 – 2022	£2,500	Access and Participation Plan, University of Suffolk		
Enterprise in	ncome			
2022	£15,000	Ochy, Innovation Voucher Scheme		
2020	£10,000	SportScientia Ltd		
2019 – 2023	£3,465	Taylor & Francis Group		
Journal artic	-			

## Journal articles

38 peer-reviewed journal publications, 9 as first author, 9 as last (senior) author 632 citations, H-index 15 (<u>Google Scholar</u>)

## Highlighted publications

- McErlain-Naylor, S.A., King, M.A., & Allen, S.J. (2021). Surface acceleration transmission during drop landings in humans. Journal of Biomechanics, 118, 110269. doi: 10.1016/j.jbiomech.2021.110269
- McErlain-Naylor, S.A., King, M.A., & Felton, P.J. (2021). A review of forward-dynamics simulation models for predicting optimal technique in maximal effort sporting movements. Applied Sciences, 11(4), 1450. doi: 10.3390/app11041450
- McErlain-Naylor, S.A., & Beato, M. (2021). Factors influencing the jump momentum sprint momentum correlation: a data simulation. European Journal of Sport Science, in press. doi: 10.1080/17461391.2021.2002420
- McErlain-Naylor, S.A., Peploe, C., Grimley, J., Deshpande, Y., Felton, P.J., & King, M.A. (2021). Comparing power hitting kinematics between skilled male and female cricket batters. Journal of Sports Sciences, 39(21), 2393-2400. doi: 10.1080/02640414.2021.1934289
- McErlain-Naylor, S.A., Towler, H., Afzal, I.A., Felton, P.J., Hiley, M.J., & King, M.A. (2020). Effect of racketshuttlecock impact location on shot outcome for badminton smashes by elite players. Journal of Sports Sciences, 38(21), 2471-2478. doi: 10.1080/02640414.2020.1792132
- McErlain-Naylor, S., King, M., & Pain, M.T.G. (2014). Determinants of countermovement jump performance: a kinetic and kinematic analysis. J Sports Sci, 32(19), 1805-1812. doi: 10.1080/02640414.2014.924055

## **Conference proceedings**

2014 – 30 abstracts in peer-reviewed conference proceedings

Book chapters			
2016	2 published book chapters		