

Eoin Doyle  
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## Biography

Eoin is a Lecturer and PhD Candidate in the Faculty of Medicine, Health and Human Sciences at Macquarie University. His research interests are in the prevention and treatment of running-related injuries. He is a dual-qualified Physiotherapist and Accredited Exercise Physiologist with clinical experience locally and internationally, working at various state and national sports institutes, professional rugby league, major athletics events, and private sports rehabilitation clinics. He had completed a Doctor of Physiotherapy at Macquarie University, a Master of Science in Sports Biomechanics through Loughborough University, and a Bachelor of Science in Sports and Exercise Science at the University of Limerick in Ireland.

Eoin is also a current member of the Australian Physiotherapy Association, Exercise and Sports Science Australia, Sports Medicine Australia, the International Society of Biomechanics, and the Australian and New Zealand Society of Biomechanics.

## Qualifications

Health Sciences, Doctor of Physiotherapy, Macquarie University  
Award Date: 24 Jun 2016

Sport Biomechanics, Master of Science, Loughborough University  
Award Date: 17 Oct 2008

Sport and Exercise Science, Bachelor of Science, University of Limerick  
Award Date: 21 Sept 2007

Accredited Exercise Physiologist, AEP

Accredited Exercise Scientist, AES

Physiotherapist (Physical Therapist), PT

## Research outputs

### **Optimizing wearable device and testing parameters to monitor running-stride long-range correlations for fatigue management in field settings**

Fuller, J. T., Thewlis, D., Wills, J. A., Buckley, J. D., Arnold, J. B., Doyle, E., Doyle, T. L. A. & Bellenger, C. R., 1 Feb 2024, In: International Journal of Sports Physiology and Performance. 19, 2, p. 207-211 5 p.

### **Sensor location influences the associations between IMU and motion capture measurements of impact landing in healthy male and female runners at multiple running speeds**

Doyle, E. W., Doyle, T. L. A., Bonacci, J. & Fuller, J. T., 8 Jan 2024, (E-pub ahead of print) In: Sports Biomechanics. 15 p.

### **Cumulative patellofemoral force and stress are lower during faster running compared to slower running in recreational runners**

Doyle, E. W., Doyle, T. L. A., Bonacci, J., Beach, A. J. & Fuller, J. T., 26 Jun 2023, (E-pub ahead of print) In: Sports Biomechanics. 13 p.

### **The influence of speed on patellofemoral joint kinetics in recreational runners**

Doyle, E., Doyle, T. L. A., Bonacci, J. & Fuller, J. T., Jul 2022, *40th Conference of the International Society of Biomechanics in Sports, ISBS 2022: Conference proceedings*. Robinson, M. A. (ed.). Liverpool: NMU Commons, p. 159-162 4 p. 38. (ISBS Proceedings Archive; vol. 40, no. 1).

### **The effectiveness of gait retraining on running kinematics, kinetics, performance, pain, and injury in distance runners: a systematic review with meta-analysis**

Doyle, E., Doyle, T. L. A., Bonacci, J. & Fuller, J. T., 1 Apr 2022, In: Journal of Orthopaedic and Sports Physical Therapy. 52, 4, p. 192-206+A5 20 p.

**Tibial accelerations estimate instantaneous vertical loading rate and peak patellofemoral joint stress during running**  
Doyle, E., Doyle, T. L. A., Bonacci, J. & Fuller, J. T., Dec 2021, *12th Australasian Biomechanics Conference (ABC12): Online Conference Program*. Australia: Australian and New Zealand Society of Biomechanics, p. 52 1 p.

**The effects of running gait retraining on biomechanics, performance, pain and injury: a systematic review and meta-analysis**  
Doyle, E., Doyle, T., Bonacci, J. & Fuller, J., 23 Oct 2021. 1 p.

**The effect of gait retraining on vertical loading rates in distance runners: a systematic review and meta-analysis**  
Doyle, E., Doyle, T., Bonacci, J. & Fuller, J., Dec 2020, p. 11. 1 p.

**Appraisal of clinical practice guideline: patellofemoral pain: clinical practice guidelines linked to the international classification of functioning, disability and health from the Academy of Orthopaedic Physical Therapy of the American Physical Therapy Association**  
Doyle, E., Apr 2020, In: *Journal of Physiotherapy*. 66, 2, p. 134 1 p.

**Adoption and use of guidelines for whiplash: an audit of insurer and health professional practice in New South Wales, Australia**  
Bandong, A. N., Leaver, A., Mackey, M., Ingram, R., Shearman, S., Chan, C., Cameron, I. D., Moloney, N., Mitchell, R., Doyle, E., Leyten, E. & Rebbeck, T., 8 Aug 2018, In: *BMC Health Services Research*. 18, 1, p. 1-16 16 p., 622.

## Activities

**Effects of field-based gait retraining on biomechanics and running economy in high-impact runners**  
Eoin Doyle (Speaker)  
12 Sept 2023

**The influence of speed on patellofemoral joint kinetics in recreational runners**  
Eoin Doyle (Speaker)  
15 Feb 2023

**Clinical Applications Of Wearable Sensors During Running: Load Monitoring, Gait Retraining, and Injury Prevention**  
Eoin Doyle (Speaker)  
3 Feb 2022

**Clinical applications of wearable sensors during running: Load monitoring, gait retraining, and injury prevention**  
Eoin Doyle (Speaker)  
2 Feb 2022

**Wearable technology for runners: from the lab to the field**  
Eoin Doyle (Speaker)  
7 Sept 2021

## Employment

### Lecturer

Lecturer  
Department of Health Sciences  
Macquarie University  
12 Feb 2024 → present

### Academic Casual

Academic Casual

Macquarie Medical School  
Macquarie University  
1 Jan 2022 → present

**Doctor of Philosophy, PHD;HTHPROF**

Doctor of Philosophy, Bridging the Gap: Lab-to-Field Integration of Running Biomechanics, Wearable Sensors, and Gait Retraining

Faculty of Medicine, Health and Human Sciences

Macquarie University

12 Jun 2019 → present

**Physiotherapist**

Northern Sports Physiotherapy Clinic  
Australia