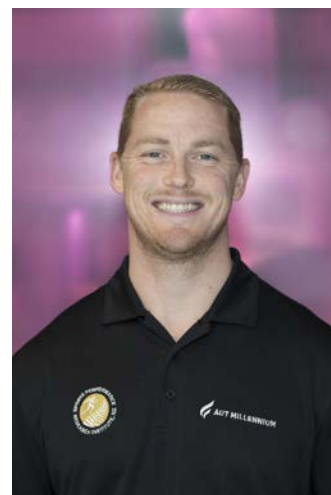


Dr Scott R Brown, PhD
BSc SDSU, MSc (Hons) BSU, PhD AUT, ISAK2

Research specialisation: Sports biomechanics, strength and conditioning, coaching, injury prevention and technology design

Experience: > 30 peer-reviewed journal publications (including primary and co-authored works); academic journal reviewer for 6 peer-reviewed journals; Head Coach (Women), East Coast Bays Rugby Football Club (union) and Conditioning Coach (Women), North Harbour Rugby Union and sevens; Developer and primary implementer of the SPRINZ return-to-sport clinical service; product design and testing with the AUT School of Engineering and School of Sport and Recreation; international collaborations with Professor Jean-Benoît Morin from Université Côte d'Azur in Nice, FRA, Dr. Pedro Jiménez-Reyes from Universidad Católica San Antonio de Murcia, Murcia, ESP and Professor Aaron Coutts from University of Technology Sydney, Sydney, AUS.



Research overview: Three-dimensional biomechanics and motion capture techniques; electromyography and dynamic muscle function; strength and conditioning practice and team sport application; software design and sport implementation.

Postgraduate supervision: Two masters theses students to completion and currently supervising one.

The effects of 8-weeks training programme of plyometric and ballistic training on female golfers' physical characteristics and drive performance by Anita Ya Ting Chau. [MSc in progress].

An Analysis of High-bar and Low-bar Back-squat Techniques in Olympic Weightlifters and Powerlifters by Daniel Glassbrook. [MSc completed; unpaid work and unofficial capacity].

The Effects of Handheld Load on Horizontal Jump Performance in Female Athletes by Chloe R McKenzie. [MSc completed; unpaid work and unofficial capacity].

Research publications:

Brown SR, Feldman ER, Cross MR, Helms ER, Marrier B, Samozino P, Morin J-B. The potential for a targeted strength training programme to decrease asymmetry and increase performance: A proof-of-concept in sprinting. *Int J Sports Physiol Perform.* 2017;[In press].

Brown SR, Brughelli M, Cross MR. Profiling sprint mechanics by leg preference and position in rugby union athletes. *Int J Sports Med.* 2016;37:890-897.

Brown SR, Brughelli M, Bridgeman LA. Profiling isokinetic strength by leg preference and position in rugby union athletes. *Int J Sports Physiol Perform.* 2016;11:500-507.

Cross MR, Brughelli M, Samozino P, **Brown SR**, Morin J-B. Optimal loading for maximizing power during over-ground sled resisted sprinting. *Int J Sports Physiol Perform.* 2017;[In press].

Glassbrook DJ, **Brown SR**, Helms ER, Duncan S, Storey AG. The high-bar and low-bar back-squats: A biomechanical analysis. *J Strength Cond Res.* 2017;[In press].

Morin J-B, Petrakos, G, Jiménez-Reyes P, **Brown SR**, Samozino P, Cross MR. Very-heavy sled training for improving horizontal force output in soccer players. *Int J Sports Physiol Perform.* 2016;[In press].

Lewis GN, Hume PA, Stavric V, **Brown SR**, Taylor D. NZ Rugby Health study: Motor cortex excitability in retired elite and community level rugby players. *NZ Med J.* 2016;[In press].

Hume PA, Theadom A, Lewis GN, Quarrie KL, **Brown SR**, Hill R, Marshall SW. A comparison of cognitive function in former rugby union players compared with former non-contact-sport players and the impact of concussion history. *Sports Med.* 2016;[In press].



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