
Thomas McGuckian

Sport Scientist / PhD Candidate / Sessional Academic

Ba. Ex. & Sport Sc. (Hons) / Ba. Psych. / Ba. Ex. Sc. & Human Movement

Qualifications

Doctor of Philosophy (under examination)

2016 - 2019

An Examination of the Visual Exploratory Actions of Association Football Players.
Australian Catholic University, Brisbane

Bachelor of Exercise and Sport Science (Honours)

2014 - 2015

Play Positive: Music and the Dynamics of Affect in Association Football.
Australian Catholic University, Melbourne

Bachelor of Psychological Studies

2010 - 2014

Victoria University, Melbourne

Bachelor of Exercise Science and Human Movement

2010 - 2014

Victoria University, Melbourne

Employment History and Experience

Sessional Academic

Australian Catholic University

2015 - current

- Design, prepare and deliver tutorial and lecture content via face-to-face and online modalities across various undergraduate and postgraduate units.
- Administrative duties in line with Lecturer-in-Charge responsibilities.

Football Coach

New Farm United Soccer Club

2019 – current

- Design and facilitate training and match-day activities for Capital 1 Reserve team.
- Assist Capital 1 Senior team coach as required.
- Manage conditioning and player monitoring for Senior and Reserve teams.

Organising Committee member**Australasian Skill Acquisition Network Conference** 2017

- Assist with the organisation and delivery of the inaugural ASAN conference, hosted by Australian Catholic University, Brisbane in November 2017.

Session Plan Development**Australian Catholic University** 2017

- Design session plans for visiting community engagement and high-school groups for various disciplines including; Biomechanics, Motor Control and Skill Acquisition, Sport Psychology, Athletic Testing, Exercise Physiology, and Strength and Conditioning.

St. Joseph's College Immersion Co-ordinator**Australian Catholic University** 2015 - 2017

- Organise the St. Joseph's College – ACU Immersion program, which allows a select group of year 10 students to attend university classes across various units from the Faculty of Health Sciences.
- Liaise with St Joseph's College and ACU staff to create an engaging experience for attending students.

Sport Science Intern**Melbourne Victory Football Club** 2013 - 2015

- Assist with training and match-day sport science duties for senior and youth teams, including GPS, wellness and hydration monitoring, database maintenance, training preparation, recovery, and nutrition.
- Assist with youth team match analysis.
- Assist with design and delivery of youth team athletic development program.

Football Coach**St. Leonards College** 2015

- Coach high-school male and female football and futsal teams for weekly training and matches.

Teaching Experience

EXSC117 – Leadership Development in Team Games (LIC)	2019
EXSC120 – Mechanical Bases of Exercise	2015 - 2017
EXSC199 – Psychology of Sport and Physical Activity	2016 - 2019
EXSC230 – Motor Control and Learning	2016 - 2019
EXSC296 – Health and Exercise Psychology	2015 & 2018
EXSC306 – Independent Study in Exercise Science	2018
EXSC392 – Leadership Development in Physical Activity (LIC)	2019
PSYC425 – Advanced Topics in Applied Psychology	2018
EXSC658 – Performing Under Pressure	2019

Refereed Journal Articles

ORCID: <https://orcid.org/0000-0002-5490-0042>

- McGuckian, T. B., Cole, M. H., Chalkley, D., Jordet, G., & Pepping, G.-J. (under review). Constraints on the visual exploration of youth football players during 11v11 match-play: The influence of playing role, pitch position and phase of play. *Journal of Sports Sciences*
- van Andel, S., McGuckian, T. B., Chalkley, D., Cole, M. H., Pepping, G.-J. (under review). Principle of the guidance of exploration for orientation and specification of action. *Frontiers in Behavioural Neuroscience*.
- McGuckian, T. B., Cole, M. H., Chalkley, D., Jordet, G., & Pepping, G.-J. (2018). Don't turn blind! The relationship between exploration before ball possession and on-ball performance in association football. *Frontiers in Psychology*. doi: 10.3389/fpsyg.2018.02520
- McGuckian, T. B., Cole, M. H., & Pepping, G.-J. (2018). A systematic review of the technology-based assessment of visual perception and exploration behaviour in association football. *Journal of Sports Sciences*, 36(8), 861-880. doi: 10.1080/02640414.2017.1344780
- McGuckian, T. B., Cole, M. H., Chalkley, D., Jordet, G., & Pepping, G.-J. (2018). Visual exploration when surrounded by affordances: Frequency of head movements is predictive of response speed. *Ecological Psychology*. doi: 10.1080/10407413.2018.1495548
- Chalkley, D., Shepherd, J. B., McGuckian, T. B., & Pepping, G. J. (2018). Development and validation of a sensor-based algorithm for detecting visual exploratory actions. *IEEE Sensors Letters*, 2(2). doi: 10.1109/LSENS.2018.2839703

Refereed Conference Papers and other articles

- McGuckian, T. B., Chalkley, D., Shepherd, J., & Pepping, G.-J. (2018). Giving inertial sensor data context for communication in applied settings: An example of visual exploration in football. *Proceedings*, 2(6), 234-239. doi: 10.3390/proceedings2060234
- McGuckian, T. B., Askew, G., Greenwood, D., Chalkley, D., Cole, M. H., & Pepping, G.-J. (2017). *The impact of constraints on visual exploratory behaviour in football*. In J. A. Weast-Knapp & G.-J. Pepping (Eds.), *Studies in Perception & Action XIV: Nineteenth International Conference on Perception and Action* (pp. 85–87). Abingdon, UK: Taylor & Francis.
- McGuckian, T. B., & Pepping, G.-J. (2016). A wearable inertial sensor for improved measurement of exploration behaviour in sport compared to notational analysis. *Journal of Fitness Research*, 5, 40–42.

Conference Presentations

World Congress on Science & Football, Melbourne 2019
Understanding situation awareness: Investigating the visual scanning of association footballers during match-play using wearable technology.

Australasian Skill Acquisition Network Conference, Sydney 2018
Positional differences in the visual exploratory actions of youth football players.

European College of Sports Science Congress, Dublin 2018
How is scanning before ball possession related to performance with the ball? An investigation of football players' exploratory action.

International Sports Engineering Association Conference, Brisbane 2018
Giving inertial sensor data context for communication in applied settings: An example of visual exploration in football.

Australasian Skill Acquisition Network Conference, Brisbane 2017
Individual differences in visual exploration in a lab-based football passing task.

Awards

- Best Student Presentation – Australasian Skill Acquisition Network Conference, 2018
- ISEA blog challenge winner – FIFA
<https://football-technology.fifa.com/en/blog/isea-blog-challenge-winner>

Referees

Dr. Gert-Jan Pepping	Deputy Head of School School of Behavioural and Health Sciences Australian Catholic University +61 7 3623 7550 Gert-Jan.Pepping@acu.edu.au
Dr. John Mahoney	Course Coordinator/Lecturer – Exercise and Sport Psychology School of Behavioural and Health Sciences Australian Catholic University +61 7 3861 6076 john.mahoney@acu.edu.au

Dr. Matthew Sweeney

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