

---

# Thomas McGuckian

---

**Sport Scientist / Sessional Academic**

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

---

## Qualifications

**Doctor of Philosophy** 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 Lecturer**  
**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.

**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

- 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.
- Youth team match analysis.
- 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>

Google Scholar:

<https://scholar.google.com.au/citations?user=HX6eJasAAAAJ&hl=en&oi=ao>

- 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. (2019). Visual exploration when surrounded by affordances: Frequency of head movements is predictive of response speed. *Ecological Psychology*, 31(1), 30-48. doi: 10.1080/10407413.2018.1495548
- 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
- 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](mailto: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](mailto:john.mahoney@acu.edu.au)

**Dr. Matthew Sweeney**

Course Coordinator / Lecturer - Biomechanics  
School of Behavioural and Health Sciences  
Australian Catholic University  
+61 7 3623 7658  
[Matthew.Sweeney@acu.edu.au](mailto:Matthew.Sweeney@acu.edu.au)