

CURRICULUM VITAE

Andrew Mark Williams

B.Sc. (Hons), Ph.D., C.Psychol., CSci., FBPS, FECSS, FBASES, HPSA, FNAK

Chair and Professor
Department of Health, Kinesiology, and Recreation
College of Health
University of Utah

and

Adjunct Professor
Department of Psychology
College of Social and Behavioral Sciences
University of Utah

INDEX

Biographical Summary	3
Background	4-5
Contact Information	4
Education	5
Awards	5
Certification	5
Memberships	5
Employment and Professional Appointments	6-7
Current Employment	6
Previous Employment	6
Visiting Professorships	7
Teaching, Administration, and Leadership	8-14
Postgraduate Mentorship and Supervision	15-18
Research Contracts and Grants	19-21
Professional Service and Other Relevant Experience	22-32
Editorial Services	22-23
Ad-hoc Journal Reviewing	24-25
Grant Reviewing	26
External Examiner Appointments	27
International Leadership Roles	28
Workshops and Conferences Organized	29
Advisory and Consultancy Roles	30-31
Media Experience	32
Research Publications	33-73
Peer Reviewed Journal Articles	33-50
Peer Reviewed Journal Articles under Review	51
Published Books and Monographs	52-53
Book Chapters/Extended Articles in Proceedings	54-60
Peer Reviewed Journal Abstracts	61-68
Professional Publications	69-73
Presentations	74-87
Keynote Lectures	74-77
Invited Lectures	78-81
Invited Conference Symposia	82-85
Conference Presentations	85-87

BIOGRAPHICAL SUMMARY

A. Mark Williams is a Professor and Chair of the Department of Health, Kinesiology, and Recreation and an Adjunct Professor in the Department of Psychology at The University of Utah. His research interests focus on the neural and psychological mechanisms underpinning the acquisition and development of expertise. Professor Williams has published almost 220 articles in peer-reviewed outlets in numerous fields including exercise and sports science (e.g., *Medicine and Science in Sport and Exercise*, *Journal of Sport and Exercise Psychology*, *Sports Medicine*), experimental psychology (e.g., *Acta Psychologica*, *British Journal of Psychology*, *Experimental Psychology*, *Visual Cognition*, *Journal of Experimental Psychology*), neuroscience (*Neuroscience Letters*, *Human Brain Mapping*, *Neuroimaging*, *Neuropsychologica*) and medicine (*The Lancet*, *British Medical Journal*, *Medical Education*). He has written 16 books, almost 80 book chapters, 60 professional articles, 100 journal abstracts, and he has delivered almost 200 keynote and invited lectures in over 30 countries. His H index on Google Scholar is 85, with an i10 of 245, and over 30,000 citations.

He is Editor-in-Chief for the *Journal of Sports Sciences*, the *Research Quarterly for Exercise and Sport*, and the journal *Human Movement Science*. He sits on the editorial boards of the *Scandinavian Journal of Science and Medicine in Sport*, *Frontiers of Cognition*, and *Frontiers in Psychology: Performance Science* and has acted as a Guest Editor for several special issues of *Journal of Sport Sciences*, *Journal of Motor Behavior*, *Journal of Sport and Exercise Psychology*, and *Journal of Experimental Psychology: Applied*.

He has mentored 10 Post-Doctoral Research Fellows and supervised over 50 doctoral students. He has acted as a reviewer for more than 50 journals in the exercise and sports sciences, experimental psychology, education and cognitive/behavioral neurosciences and 15 funding agencies in North America, Europe, and Asia.

He is a Fellow of the British Psychological Society (BPS), National Academy of Kinesiology (NAK), British Association of Sport and Exercise Science (BASES), and the European College of Sports Sciences (ECSS). He is a Chartered Psychologist and Scientist and Accredited by BASES to work with high-performance athletes. He has been a Visiting Professor at several prestigious institutions including Florida State University, Loughborough University, University of Florida, University of Calgary, University of British Columbia, University of the Mediterranean, University of Salzburg, and KU Leuven.

He has received more than \$6 million in external funding from research councils in Australia (Australian Research Council - ARC) and the UK (Economic and Social Research Council; Biotechnology and Biological Sciences Research Council - BBSRC; British Academy, Royal Society), industry partners, such as Nike and Umbro, and the US Military, as well as governing bodies of sport (The FA, FIFA, UEFA, UK Sport, USOC) and professional sports teams (Liverpool, Everton, West Ham).

BACKGROUND

Contact Information

Name: Andrew Mark Williams

Date of Birth: February 14, 1965

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Education

1996 Ph.D. Cognitive Neuroscience, University of Liverpool, School of Health Sciences, Faculty of Medicine.

1988 B.Sc. (Hons) Sports Science, Department of Exercise and Sports Science, Crewe & Alsager Faculty, Manchester Metropolitan University.

Awards

- 2003 – North American Society for the Psychology of Sport and Physical Activity Early Career Distinguished Scholar Award
- 2002 – International Society for Sport Psychology Early Career Award
- 1988 – UK Sports Council Undergraduate Research Dissertation of the Year Award

Certifications

- Fellow, European College of Sports Science (ECSS)
- Fellow, British Association of Sport Sciences (BASES)
- Fellow, National Academy of Kinesiology, US (NAK)
- Fellow, British Psychological Society (BPS)
- Chartered Psychologist (BPS)
- Chartered Scientist, National Skills Council, UK
- BASES High-Performance Sport Accredited (HPSA)

Memberships

- British Psychological Society
- British Association of Sport and Exercise Science
- European College of Sports Sciences
- North American Society for the Psychology of Sport and Physical Activity (NASPSPA)
- National Academic of Kinesiology (NAK)
- SHAPE America

EMPLOYMENT AND PROFESSIONAL APPOINTMENTS

Current Employment

- 2016-present Professor and Chair, Department of Health, Kinesiology, and Recreation,
College of Health, **University of Utah, USA**
- Adjunct Professor, Department of Psychology, College of Social and
Behavioral Sciences, **University of Utah, USA**

Previous Employment

- 2015-2016 Director, Centre for Cognitive Neuroscience, College of Health Life
Sciences, **Brunel University London, UK**
- 2014-2016 Professor and Head of Life Sciences, College of Health and Life Sciences,
Brunel University London, UK
- 2011-2014 Professor and Subject Leader, Division of Sport, Health and Exercise
Sciences, School of Sport and Education, **Brunel University London, UK**
- 2009-2011 Professor and Associate Dean for Research and Innovation and Health of
Discipline Exercise and Sport Science, Faculty of Health Sciences,
University of Sydney, Australia
- 2004-2009 Professor of Motor Behaviour, School of Sport and Exercise Sciences,
Faculty of Science, **Liverpool John Moores University, UK**
- 2003-2005 Visiting Research Associate, Learning Systems Institute, **Florida State
University, USA** (research sabbatical and seconded)
- 1999-2004 Reader Sport and Exercise Psychology, Centre for Sport and Exercise
Sciences, School of Health and Human Sciences, **Liverpool John Moores
University, UK**
- 1995-1999 Senior Lecturer in Sport and Exercise Psychology, Centre for Sport and
Exercise Sciences, School of Health Human Sciences, **Liverpool John
Moores University, UK**
- 1992-1995 Lecturer in Motor Skills, Department of Movement Science, Faculty of
Medicine, **University of Liverpool, UK**
- 1989-1992 Teaching/Research Assistant, Department of Exercise and Sports Science,
Manchester Metropolitan University, UK

Visiting Professorships

Current Visiting Appointments

2018-present	School of Sport, Exercise and Sports Sciences, Loughborough University, UK
2018-present	School of Sport, Rehabilitation and Exercise Sciences, University of Essex, UK
2015-present	School of Sport and Service Management, University of Brighton, UK

Previous Visiting Appointments

2017-2018	School of Sport, Health and Applied Science, St Mary's University Twickenham, London, UK
2010-2012	Norwegian Institute of Sport, Oslo, Norway
2009 (Oct)	Institute of Sports Sciences, University of Salzburg, Austria
2009 (Jan-Apr)	School of Human Movement Studies, Queensland University of Technology, Australia
2008 (Apr)	Department of Kinesiology, University of British Columbia, Canada
2003-2005	Department of Educational Psychology and Learning Systems Institute, Florida State University, USA
2000 (Mar-May)	Faculty of Sports Sciences, University of the Mediterranean, Marseilles, France
1998 (June-Aug)	Faculty of Kinesiology, University of Calgary, Canada
2015 (Oct-Nov)	College of Health and Human Performance, University of Florida, USA
2001 (April)	
1997 (Apr-May)	
1996 (Oct-Nov)	

TEACHING, ADMINISTRATION, AND LEADERSHIP

University of Utah (2016 – present)

Teaching

- Higher Degrees by Research
 - Supervision of Ph.D. and Masters-thesis students
 - Ad-hoc lectures on undergraduate and postgraduate courses

Administration and Leadership

- Chair, Department of Health, Kinesiology, and Recreation (which includes 3 program areas: Health Promotion and Education; Kinesiology [formerly Exercise and Sport Science] and Parks, Recreation, and Tourism
- Chair, Department Senior Management Board (DMB)
- Member, Dean's Advisory Council
- Member, Management Board Orthopaedic Sports Medicine Center
- Member and Inaugural Director of High Performance Sport, University of Utah, Sport Medicine and Sports Science Institute
- Member, Management Board of collation between United States Olympic Committee, Steadman Philippon Research Institute, Steadman Clinic and University of Utah (an official IOC Research Center)
- Director, Cognitive Neuroscience and Rehabilitation Research Group

Context

The Department of Health, Kinesiology, and Recreation is a large multi-disciplinary academic unit located in the College of Health. It is the largest department on campus with almost 2000 students and around 100 faculty and staff. I have overall responsibility for all activity across the three constituent program areas. I also lead a research theme area focusing on cognitive neuroscience and rehabilitation. The University of Utah is Tier I, research-intensive university, with almost 35,000 students. It is typically rated as one of the top 50 public universities nationally by US News and World Report and has been rated as one of the top 100 universities in the world by the Shanghai rankings for each of the last 10 years and in the top 200-250 in the world according to the Times Higher Education.

Brunel University London (2011 – 2016)

Teaching

- B.Sc. (Hons) Sports Science
 - Motor Control and Learning
- M.Sc. Sports Science
 - Sport and Exercise Psychology
 - Research Project Supervision
- High Degrees by Research
 - Supervision of Ph.D. students

Administration and Leadership

- Subject Leader, Division of Sport, Health and Exercise
- Head of Life Sciences (which included a merger of three Divisions: Biosciences; Psychology; and Sport, Health and Exercise Sciences)
- Chair, Department Senior Management Board
- Chair, Department Academic Committee
- Chair, Department Tenure and Promotions Committee
- Member, College of Health and Life Sciences Senior Management Board
- Member, Senior Management Group, Centre for Sports Medicine and Human Performance and Brunel Centre for Sport, Health and Wellbeing
- Inaugural Director, Centre for Cognition and Neuroscience

Context

Brunel University London is a plate-glass, research-intensive university established in the mid 1960's. QS World University Rankings and the Times Higher Education rate the institution as one of the top 50 universities in the world under the age of 50 years and is typically around the upper quartile in ratings of public universities in the UK. The Times Higher Education ranks it amongst the top 350 amongst all universities in the world. Initially, I held a role as Divisional Lead for Sport, Health and Exercise in the School of Sport and Education, but the university restructured in 2014 to create three new colleges. I took up a new position as Head of Life Sciences in the College of Health and Life Sciences. The Department of Life Sciences, which included a merger of three previous departments, merging psychology, sport, health and exercise and biological sciences, had 1800 students and 150 faculty and staff.

University of Sydney (2009 – 2011)

Teaching

- B.App.Sci (Hons) Exercise and Sports Science
 - Level 2 – Motor Control and Learning
 - Level 3 – Psychology of Health and Human Performance
 - Hons – Project Supervision
- M.Sc. App. Exercise and Sports Science
 - High Performance Coaching
- Higher Degrees by Research
 - Supervision of Ph.D. students

Administration and Leadership

- Head of Discipline, Exercise and Sports Science
- Associate Dean, Research and Innovation, Faculty of Health Sciences
- Acting Associate Dean, International
- Acting Associate Dean, Teaching and Learning
- Membership, Faculty Executive Group
- Member, Divisional Board
- Chair, Faculty Research Committee
- Chair, Faculty Research Higher Degrees Sub Committee
- Member, University's Graduate Studies Committee
- Member, University's Senior Executive Group for Research
- Member, University's Senior Executive Group for Research Training

Context

The University of Sydney is the oldest academic institution in the Southern Hemisphere, dating back to the mid 1800's. QS World University Rankings and the top 70 by the Times Higher Education typically rate the institution amongst the top 50 universities in the world. It is an 'Ivy League' equivalent institution in Australia. The institution appointed me as Head of Discipline, Exercise and Sports Science, an academic unit ranked by QS World University Rankings in 2017 as the joint top in its field globally. It then asked me to take on simultaneously the role of Associate Dean of Research and Innovation in the Faculty of Health Sciences. The faculty was one of the largest in its field in the Southern Hemisphere with more than 4000 students, including 300 Ph.D. students, and 300 faculty and staff. I left Sydney because I had to return to the UK for family reasons.

Liverpool John Moores University (1995 – 2009)

Teaching

- B.Sc. (Hons) Sport and Exercise Science
 - Level 1 – Introduction to Sports Psychology/Motor Control
 - Level 2 – Human Motor Performance, Skill Acquisition in Football, Football Skills 2, Emotion and Performance, Work Based Learning Supervision
 - Level 3 – Motor Control, Skill Acquisition and Development, Project Supervision
- M.Sc. Sport and Exercise Science
 - Motor Skills, Contemporary Issues in Sport and Exercise Psychology, Dissertation Supervision
- Advanced Certificate/Diploma H.E. Science and Football
 - Supervision of M.Res, M.Phil. and Ph.D. students

Administration and Leadership

- Group Leader, Brain and Behaviour Research Group
- Program Leader Dip HE in Science and Football (1995 – 2003) and B.Sc. (Hons) Science and Football (1995 – 2003)
- Member of the Advisory Board Research Institute for Sport and Exercise Science
- Member of the University's Academic Board (2003 – 2005)
- Member of Faculty of Science Research and Consultancy Committee

Context

Liverpool John Moores University is a post-1992 university having previously been a polytechnic. The Times Higher Education ranks the institution as one of the top 100-150 universities under 50 years of age in the world and one of the top 500-600 amongst all universities globally. The School of Sport and Exercise Sciences is regarded as one of the most successful academic units in its field in the UK. For example, in the UK Government's latest national review of research performance carried out in 2014 it was rated the 11th best department in the country for research across all academic fields, not merely sport and exercise sciences, which included almost 2000 submissions. I spent 15 years at the institution and was promoted from Senior Lecturer (equivalent to Assistant Professor) to Reader (equivalent to Associate Professor) and then Professor. During my time at the institution, I held several administrative and program level leadership roles. I left in order to seek senior management experience elsewhere and to sample life in another country.

Florida State University (2003 – 2005)

Teaching

Department of Educational Psychology and Learning Systems and Department of Psychology

- M.Sc. and Ph.D. courses in sport and educational psychology
 - Contemporary issues in the sport and exercise sciences
- Higher Degrees by Research
 - Advisor Masters and Ph.D. research students

Administration and Leadership

- Member, Florida Alliance for the Study of Expertise
- Member, Advisory Board Center for Learning, Education and Performance Systems
- Member, Center for Research on Expertise and Expert Performance

Research

- Support Officer, Office of Naval Research contract focusing on stress and decision making in fighter pilots and leadership selection and training in the military.
- Technical Advisor, Office of Naval Research contract focusing on stress and decision making in fighter pilots and leadership selection and training in the military.

Context

Florida State University is a Tier I, research-intensive university typically ranked around the top 50 amongst public universities in the US and by the Times Higher Education as one of the top 250 universities globally. I spent two years at the institution working jointly across the Learning Systems Institute and the College of Education. The first year I was on sabbatical, whereas the second year I was seconded from my tenured position at Liverpool John Moores University. I held a research only appointment at LSI, working on various Department of Defense grants, and a Visiting Professorship in the College of Education where I taught on various postgraduate courses. I left to return to my tenured position at Liverpool John Moores University.

University of Liverpool (1992 – 1995)

Teaching

- B.Sc. (Hons) Human Movement Science
 - Year 1 – Introduction to Sport Psychology
 - Year 2 – Motor Skill Acquisition, Research Methods and Statistical Analysis
 - Year 3 – Motor Control and Learning, Sport Psychology, Project Supervision
- M.Sc. Human Movement Science
 - Motor Control and Learning
 - Research Methods and Statistical Analysis
 - Research Apprenticeship
 - Dissertation Supervision
- Higher Degrees by Research
 - Supervision of M.Phil. students
- Recreation Program
 - Squash, Weight Training Instruction

Administration and Leadership

- Director, Motor Skills Research Laboratory
- Director of Studies for M.Sc. Human Movement Science (1993-1995)
- B.Sc. (Hons) Movement Science Examinations Representative
- Member of the Life Sciences Teaching Group
- Member of the Faculty Board and Research Advisory Group for Professions Allied to Medicine and Health Sciences
- Member of Postgraduate Studies and Curricula Review Working Groups
- Responsible for Department Visiting Lecturer Program
- Department Careers Advisor and Personal Tutor
- Admissions Interviews for undergraduate program

Context

The University of Liverpool is a redbrick university, dating back to 1881. It is part of the Russell Group of elite universities in the UK. The Times Higher Education ranks the institution in the upper quartile of institutions in the UK and in the top 200 universities globally. I started my Ph.D. at the institution in 1990 and the institution then offered me a 12-month position as a Lecturer in the Department of Movement Science in 1992. This position subsequently became a permanent appointment in 1993. I left the institution in 1995 to move to Liverpool John Moores University. While the University of Liverpool is a more highly-ranked university, the academic unit at Liverpool John Moores University was seen as stronger, being much more highly-ranked in its field in the UK.

Manchester Metropolitan University (1989 – 1992)

Teaching

- BTEC Higher National Diploma Sports Science
 - Year 1 – Math, Computing, and Data Handling. Biomechanics.
- BTEC Higher National Diploma Sports Coaching
 - Year 1 – Fitness, Health, and Sport Laboratories
- B.Sc. (Hons) Sports and Exercise Science
 - Year 1 – Motor Learning and Biomechanics Laboratories, Personality and Motivation Laboratories, Statistics and Research Methods Laboratories and Lectures, Squash Practical Studies.
 - Year 2 – Human Motor Performance, Statistics and Research Methods Laboratories and Lectures, Course Tutor Research Methods II, Practical Studies Soccer.
 - Year 3 – Laboratory Supervision, Undergraduate Project Supervision in Motor Control and Learning Area.
- B.Ed. (Hons) Physical Education
 - Year 3 – Statistics and Research Methods Lectures, Practical Studies Cricket.
 - Year 4 – Motor Control and Learning.
- Cheshire School of Health Studies Project 2000 Nurse Training Course
 - Tutor Psychology Foundation Course.
- Sports Council National Coaching Foundation
 - Level I and II Courses – The Coach in Action, Planning and Practice, Planning Your Program, Improving Technique, Analyzing Performance and Improving Communication.

Context

I completed my undergraduate degree in sports science at the institution in 1988. I was one of the first cohorts of students to graduate with this degree in the UK. The institution, along with Liverpool John Moores University and Loughborough University, was among the first to award the degree in the UK, whereas now more than two thirds of universities in the UK offer the academic award. I returned in 1989 to work as a Teaching and Research Assistant at the institution, while simultaneously registering for a Ph.D. at the University of Liverpool since at that time the institution was not able to award its own doctoral degrees. I left in 1992 to take up a full-time position at the University of Liverpool.

POSTGRADUATE MENTORSHIP AND SUPERVISION

Mentorship of Post-Doctoral Research Fellows (N=10)

1. T. Raffegau (Ph.D, University of Florida), August 2018 onwards
2. B. Fawver (Ph.D. University of Florida), August 2016 –present
3. P. Larkin (Ph.D. University of Ballarat), January 2013 – January 2016
4. W. Young (Ph.D. University of Birmingham), February 2013 – October 2015
5. C. Gonzalez (Ph.D. University of Leeds), February 2013 – February 2016
6. J. Causer (Ph.D. Liverpool John Moores University), January 2011 – August 2012
7. Ford, P. (Ph.D. Liverpool John Moores University), January 2007 – August 2012
8. Huys, R. (Ph.D. Vrije University, Amsterdam), July 2004 – January 2006
9. Hodges, N.J. (Ph.D. University of British Columbia), January 2001 – June 2003
10. Court, M. (Ph.D. Liverpool John Moores University), September 2000 – August 2001

Successful Supervision of Ph.D./M.Res./M.Phil Students (N=40; FT = Full-Time; PT = Part-Time)

1. David Hendry (2012 to 2018) Toward an understanding of the affective and behavioural outcomes in early adulthood associated with developmental soccer activities. University of British Columbia (with Hodges, N.J. and Crocker, P.). PT.
2. Oliver Runswick (2014 – 2018) The role of context in anticipation. St Mary's University Twickenham (with J. North and A. Roca). PT.
3. Murphy, C. (2012 – 2017) The role of contextual information in anticipation. Brunel University London. PT.
4. Jochim Spitz (2014 – 2017) Expertise in match officials. KU Leuven.
5. Kuhn, Put (2012 – 2015) Using technology to enhance decision-making. KU Leuven. PT.
6. Cocks, A. (2012 – 2016) The influence of context on anticipation and decision-making skill in time-constrained domains. Brunel University London.
7. McCoughlin, E. (2008 – 2015) Practice and instruction in the development of elite performers. Ph.D. Liverpool John Moores University. PT.

8. Hope, E. (2008 – 2015) What transfers across domains? Ph.D. Liverpool John Moores University. PT.
9. Broadbent, D. (2011 – 2015) The neural mechanisms underpinning anticipation skill. Ph.D. Liverpool John Moores University. FT.
10. Alder, D. (2011 – 2014) The effects of stress on decision-making in temporally- constrained tasks. Ph.D. Liverpool John Moores University. FT.
11. Afonso, J. P. (2007 – 2012) Expertise and its development in volleyball. Ph.D. Oporto University, Portugal. External Advisor. Supervisor Dr. J. Ferreira. PT.
12. Bourne, M. (2006 – 2012) Developing anticipation and decision-making skill in elite athletes. Ph.D. - Liverpool John Moores University. PT.
13. McRobert, A. (2006 – 2012) Perceptual mechanisms underlying anticipation skill. Ph.D. – Liverpool John Moores University. PT.
14. Lequine, C. (2007 – 2012) Perceptual-cognitive expertise and its development in tennis. Ph.D., University of Paris-Sud, France. Supervisor Dr. Nicholas Benguigui. PT.
15. Casanova, F. (2007-2012) The effects of fatigue and role specificity on decision- making. Ph.D. Oporto University, Portugal. External Advisor. Supervisor Dr. J. Ferreira. PT.
16. Underdown, T. (2010 – 2012) Boot-pitch interaction during a rapid turning manoeuvre in soccer. M.Phil. Liverpool John Moores University. PT.
17. Roca, A. (2008 – 2012) Perceptual-cognitive expertise and its development in soccer. Ph.D. Liverpool John Moores University. FT.
18. Low, J. (2007 – 2011) Environmental influences on the development of expertise in cricket. Ph.D. Liverpool John Moores University. PT.
19. Causer, J. (2007 – 2010) Identifying the determinants of successful performance in Olympic shooting. Liverpool John Moores University. FT.
20. Ruiz, C. (2008 – 2009). Identifying the information underlying pattern recognition skill. MRes – Liverpool John Moores University. FT.
21. Yates, I. (2004 – 2008) The microstructure of practice and instruction leading to expertise. MPhil – Liverpool John Moores University. PT.
22. Mefthab, E. (2002 – 2008) Emotional determinants of performance. Ph.D. – Liverpool John Moores University (second supervisor). PT.
23. Vayens, R. (2003 – 2007) Decision making skill in sport. Ph.D. – University of Ghent. External Advisor. Supervisor Dr. R. Philippaerts. FT.

24. North, J. (2003 – 2007) Minimal essential information underlying skilled perception. Ph.D. – Liverpool John Moores University. FT.
25. Smeeton, N. (2002 – 2007) The dynamical information underpinning anticipation skill. Ph.D. – Liverpool John Moores University. PT.
26. Ford, P. (2003 – 2006) The role of external action effects in skilled performance. Ph.D. – Liverpool John Moores University. FT.
27. Breen, A. (2004 – 2005) Perturbations, expertise and motor performance. M.Res – Liverpool John Moores University. FT.
28. Breslin, G. (2001 – 2005). Observational learning: A dynamical perspective. Ph.D. – Queens University, Belfast. FT.
29. Hayes, S. (2001 – 2005) Visual information pick up during observational learning. Ph.D. – Liverpool John Moores University. FT.
30. Yves, D. (2001 – 2003) What you see is what you get: The effect of visual manipulations on running stability. M.Res - Liverpool John Moores University. FT.
31. Horn, R. (1999 – 2003) Observational learning in sport. Ph.D. - Liverpool John Moores University. PT.
32. Ward, P. (1999 – 2002) The development of perceptual and cognitive expertise. Ph.D. Liverpool John Moores University. FT.
33. Purvis, A. (1997 – 2001) Physiological demands of football. Ph.D. – Liverpool John Moores University (second supervisor). FT.
34. Balmer, N. (1998 – 2001) Home advantage in sport. Ph.D. – Liverpool John Moores University. FT.
35. Rodrigues, S. (1996 – 2000). Arm, hand and eye co-ordination in table tennis. Ph.D. – University of Calgary. External Advisor. Supervisor – Professor J.N. Vickers. FT.
36. Franks, A. (1997 – 2000) Talent identification in soccer. M.Phil. – Liverpool John Moores University (second supervisor). Part Time (PT).
37. Weigelt, C. (1996 – 2000) The role of visual and articular proprioception in interceptive actions. Ph.D. - Liverpool John Moores University. FT.
38. Court, M.L.J. (1996 – 2000) Effects of anxiety on bimanual co-ordination. Ph.D. - Liverpool John Moores University. FT.
39. Janelle, C. (1995 – 1997) The effects of anxiety and attentional demand on visual search strategy during a driving simulation. Ph.D. - University of Florida. External Advisor. Supervisor - Professor R.N. Singer. FT.

40. Frehlich, S. (1995 – 1997) Visual search strategies in near- and far-aiming tasks: An investigation of the ‘quiet-eye’ phenomenon. Ph.D. - University of Florida. External Advisor. Supervisor - Professor R.N. Singer. Full Time (FT).

On-going Supervision of Ph.D. Students (N=13)

1. Stephanie Brams (2016 to date) Detection and diagnosis of cancer in radiography. KU Leuven, Belgium. Expected completion 2020. FT.
2. Mike Baker (2017 to date). Anticipation skill in time constrained domains. St Mary’s University Twickenham. Expected completion 2020. FT.
3. Joseph Lee Thomas (2017 to date) Cognitive neuroscience. University of Utah. Expected completion 2021. FT.
4. Rhiannon Cowan (2017 to date) Cognitive neuroscience. University of Utah. Expected completion 2021. FT.
5. Mindie Clarke (2018 to date) Cognitive neuroscience. University of Utah. Expected completion 2022. FT.
6. Brady DeCouto (2018 to date) Cognitive neuroscience. University of Utah. Expected completion 2022. FT.
7. Viktor Gerdin (2015 to date). The neural mechanisms underpinning anticipation and decision-making. Brunel University London. Expected completion 2019. FT.
8. Toby Ellmers (2014 to date) Fear of falling and its impact on visual control of action in the elderly. Brunel University London. Expected completion 2019. PT.
9. Adel Burnett (2014 to date) Anxiety, re-investment and its impact on decision- making. Brunel University London. Expected completion 2019. FT.
10. Giorgia D’innocenzo (2013 to date) Neural mechanisms underpinning eye movements. Brunel University London. Expected completion 2019. FT.
11. Barhorst-Cate, E.M. (2018 to date) Social and behavioural science. University of Utah. Expected completion 2023. FT.
12. Williams, L.H. (2018 to date) Social and behavioural science. University of Utah. Expected completion 2023. FT.
13. Pathania, A. Barhorst-Cate, E.M. (2018 to date) Cognitive neuroscience. University of Utah. Expected completion 2023. FT.

RESEARCH CONTRACTS AND GRANTS

I have been successful in generating over £4,000,000 (\$6 million USD) in research contracts and grants since 1995, all as Principal Investigator.

Existing Grants Currently Under Review (total approximately \$5 million USD)

2018 - 2023 Facilitating the acquisition of expertise in detecting and diagnosing cancer - \$1,906,250 – National Institutes of Health, R-01 Proposal (PAR-18-640). PI with Co-Is at the University of Utah including Trafton Drew (Department of Psychology), Megan Mills and Bill Aufferman (Department of Radiography) and Keith Lohse (Department of Health, Kinesiology and Recreation).

2018 - 2022 Multi-sensory processing for real-world mobility in older adults: the influence of mobility-related anxiety - \$1,628,895 - National Institutes of Health, R-01 Proposal (PAR 18-545). PI with Co-Is at the University of Utah including Sarah Crème-Reger and Jeannine Steffanucci (Department of Psychology), Keith Lohse and Peter Fino (Department of Health, Kinesiology and Recreation) and Will Young (Brunel University London).

2018 -2020 Modeling injury, mental health risk, and performance in a sample of collegiate athletes – \$950,577 - Pac-12 Student Athlete Health and Wellbeing Grant. PI with Co-Is at the University of Utah including Keith Lohse and Les Podlog (Department of Health, Kinesiology and Recreation).

2018 - 2020 Perceptual-Cognitive Expertise in Radiology: Enhancing the Detection and Diagnosis of Cancer - \$419,375 - National Institutes of Health, R-21 Proposal (PAR-18-641, revised submission). PI with Co-Is at the University of Utah including Trafton Drew (Department of Psychology), Megan Mills and Bill Aufferman (Department of Radiography) and Keith Lohse (Department of Health, Kinesiology and Recreation).

Successful Grant Applications (all external)

2019-2020 The impact of stress on decision making in combat. The U.S. Army Armament Research, Development and Engineering Center - Tactical and Behavioral Research Laboratory - \$235,000 - (PI; Co-Is Keith Lohse and Brad Fawver, University of Utah).

2017-2021 Tracking the development of expert skiers in the US High-Performance Pathway - United States Olympic Committee - \$100,000 - (PI; Co-Is Keith Lohse and Brad Fawver, University of Utah).

2016 – 2019 Using simulation-based training programs to enhance perceptual-cognitive skills in assistant referees – 265,095 euros – FIFA and International Football Associations Board (PI – Werner Helsen; Co-Is Kohn Put, Filip Boen, Wagemans (University of Leuven).

2014 – 2016 Visual search behavior as a function of movement specific reinvestment in older adults during adaptive walking tasks - £8,865 – British Academy Research Award (Co-I with Will Young (Brunel University) and R. Masters (University of Hong Kong).

2014 – 2016 Examining how fear of falling can increase fall-risk in older adults - £6,000 – The Royal Society International Exchange Program (Co-I with Will Young (Brunel University) and R. Masters (University of Hong Kong)).

2013 – 2015 The English Premier League - £35,000. Technical/tactical analysis of youth football.

2013 – 2016 Biotechnology and Biological Sciences Research Council - £440,000. Identifying the behavioral and biological mechanisms underpinning elite performance in aiming sports (PI Williams, A.M.; Co-Is Grey, M., Milne, C. (University of Birmingham) and Humphries, G. (University of Oxford)).

2013 – 2016 Australian Research Council Linkage Grant \$426,000 through University of Sydney. Decision making skill: From testing to training (PI Williams, A.M.; Co-Is Goodyear, P., Jacobson, M., O'Connor, D.).

2012 – 2015 Lawn Tennis Association £15,000 for research on simulation training and its role in enhancing anticipation and decision-making.

2012 – 2015 West Ham United Football Club £16,000 for research on match analysis.

2011 – 2015 English Institute of Sport £45,000 for research on anticipation/decision making.

2010 – 2013 Gaelic Athletic Association £40,000 for research on effective practice and instruction and the development of elite performers.

2011 – Nike \$25,000 for research work on clothing and deception.

2008 – 2012 FIFA £120,000 for research work on impact of playing surface on motor control in soccer.

2003 – 2011 £205,000 Everton Football Club. The provision of research services in the area of match analysis, talent identification and development.

2007 – 2009 UK Sport £25,000 for developing a skill acquisition curriculum with its Performance Analysis group.

2007 – 2009 UEFA £56,000 validation of optical motion analysis system for player tracking.

2007 – 2010 UK Sport £92,000 for research project focusing on visual skill and shooting performance.

2005 – 2008 £80,000 Finnish Ministry of Education for research on anticipation and decision-making skill and its development in children (Co-I with Minna Blomqvist, University of Jyväskylä, Finland)

2006 – 2007 £42,000 Football Association. Coach education material for Football Association Coaches Association.

2005 – 2006 £4,000 English Cricket Board for work on anticipation and decision-making.

2005 – 2006 £3,750 Preston NE Football Club for research on player development.

2006 – 2007 £42,500 Football Association. Coach education material for Football Association Coaches Association.

2003 – 2006 £188,045 Football Association for the creation, administration and editing of a sports science and medicine journal for its Coaches Association.

2003 – 2005 £72,000 Nike Inc. Produce development work related to visual perception and the design of sports equipment.

2002 – £90,000 Football Association. Match analysis support services for National squads.

2002 – £22,000 Football Association. A quantitative analysis of the 2002 World Cup.

2002 – £2,000 British Academy (with N.J. Hodges). Research in the area of observational learning.

2001 – 2003 – £43,750 Everton Football Club (with T. Reilly). Research in the area of player development, fitness training and match analysis.

2001 – £5,000 Football Association (with D. Richardson). To establish a focus group to evaluate coach education programs at ‘grass roots’ level.

2000 – £30,000 Football Association. Match analysis support services for National squads.

2000 – 2003 – £148,488 Football Association for the creation, administration and editing of a sports science and medicine journal for its Coaches Association.

1999 – 2001 - £64,341 Economic and Social Research Council. Identifying the visual information used to control action in dynamic, interceptive tasks.

1999 – 2000 - £15,000 Liverpool Football Club. Provision of consultancy and scientific support in the area of match analysis to the first team, working closely with the Manager.

1999 – 2002 £385,000 Football Association. Match analysis support services for National squads.

1998 – £35,500 Football Association. A quantitative analysis of the 1998 FIFA World Cup.

1998 – 2000 £60,000 Everton Football Club for the development and management of a scientific support system in the areas of match analysis and sport psychology.

1997 – 2000 - £145,000 Football Association for the creation, administration and editing of a sports science and medicine journal for its Coaches Association.

1997 – 2000 - £177,000 UMBRO International for setting up and running a product development and testing laboratory focusing on using testing and developing new products.

1997 – 1998 - £25,000 Football Association for undertaking contract research work in the area of talent identification and development using longitudinal data.

1995 – £23,500 UMBRO for the production of a video and book on football training.

PROFESSIONAL SERVICE AND OTHER RELEVANT EXPERIENCE

Executive Editor Positions

2019 - Present: Editor-in-Chief, Human Movement Science

2018 – Present: Editor-in-Chief, Research Quarterly for Exercise and Sport

2016 – Present: Editor-in-Chief, Journal of Sports Sciences

2009 – Present: Executive Section Editor, Human Movement Science

2016 – 2018: Chair, Scientific Board, Research Quarterly for Exercise and Sport

2011 – 2015: Motor Behavior Section Editor, Journal of Sport Sciences

2004 – 2011: Psychology Section Editor, Journal of Sport Sciences

2005 – 2009: Motor Control and Learning Section Editor, European Journal of Sport

Sciences 1997 – 2007: Editor, The Football Association's Coaches Association Journal

'Insight'

2002 – 2007: Motor Learning Section Editor, International Journal of Sport and Exercise Psychology

1995 – 2002: Cognitive Psychology Section Editor, International Journal of Sport Psychology

Advisory Board Positions

2016 – Present: Frontiers of Psychology: Performance Science

2015 – Present: Research Quarterly for Sport and Exercise

2010 – Present: Frontiers of Cognition

2007 – Present: International Review of Sport and Exercise Psychology

2006 – 2013: Journal of Sport and Exercise Psychology

2006 – 2018: Scandinavian Journal of Science and Medicine in Sport

2005 – 2012: European Journal of Sports Science

Special Issue Editorships

- Journal of Sports Sciences, special issue on ‘Talent identification and development in football’, 2019
- Journal of Sports Sciences, special issue with B. Drust on ‘Talent identification and development’, 2012
- Journal of Sports Sciences, special issue with R. Davidson on ‘Preparing for Olympic successes’, 2009.
- Journal of Sport and Exercise Psychology, special issue with K.A. Ericsson on ‘How experts learn’, 2008.
- Journal of Experimental Psychology: Applied, special issue with K.A. Ericsson on ‘Capturing Expert Performance across Domains’, 2007.
- Journal of Motor Behavior, special issue with K.A. Ericsson on ‘Perception, Cognition and Action’, 2007.
- Journal of Sports Sciences, special issue with N.J. Hodges on ‘Observational Learning’, 2007.
- Human Movement Science, special issue on ‘Motor Learning’, 2005.
- Journal of Sport Sciences, special issue on ‘Expert Performance’, 2005.
- Journal of Sport Sciences, special issue on ‘Visual Search Behaviors’, 2002.
- Journal of Sport Sciences, special issue on ‘Talent Identification and Development’, 2000.

Ad-hoc Journal Reviewing

- Acta Psychologica
- Annals of Human Biology Applied Cognitive Psychology
- Attention, Perception and Psycho-Physics Brain Research
- British Journal of Sports Medicine Cerebral Cortex
- Clinical Journal of Sports Medicine Cognition
- Cognitive Processing Educational Psychology Ergonomics
- European Journal of Cognitive Psychology
- European Physical Education Review
- Experimental Psychology
- Experimental Brain Research
- Frontiers of Cognition
- Frontiers of Psychology
- Frontiers of Psychology: Performance Science
- Frontline Learning Research
- Frontiers in Movement Science and Sport Psychology
- High Ability Studies
- Human Movement Science
- International Journal of Sport and Exercise Psychology
- Journal of Applied Sport Psychology
- Journal of Experimental Psychology: Applied
- Journal of Experimental Psychology: Human Perception and Performance
- Journal of Behavioral Decision Making
- Journal of Geriatrics: Psychological Sciences
- Journal of Motor Behavior
- Journal of Neuroscience Methods
- Journal of Science and Medicine in Sport
- Journal of Sports Science
- Journal of Sport and Exercise Psychology
- Learning and Individual Differences
- Learning and Instruction
- Medicine and Science in Sport and Exercise
- Memory
- Movement Disorders
- Neuroscience Letters
- Perception
- Perception and Psycho-Physics
- Perceptual and Motor Skills
- Physiology and Behaviour
- Plos One
- Psychoneuroendocrinology
- Psychophysiology

- Psychonomic Bulletin and Review
- Psychology of Sport and Exercise
- Research Quarterly for Sport and Exercise
- Sports Medicine
- The Sport Psychologist
- Quarterly Journal of Experimental Psychology

Grant Reviewing

- Australian Research Council (College of Experts)
- Austrian Science Fund (FWF), Austria
- Canadian Institutes of Health Research, Canada
- Biotechnology and Biological Sciences Research (BBSRC), UK
- Engineering and Physical Sciences Research Council (EPSRC), UK
- Economic and Social Research Council (ESRC), UK
- Foundation of Science and Technology (FCT), Portugal
- Hong Kong Institute of Education
- Institute of Human Development, Child and Youth Health, USA
- Irish Research Council
- Research Grants Council of Hong Kong, China
- Social Sciences and Humanities Research Council (SSHRC), Canada
- Natural Sciences and Engineering Research Council (NSERC), Canada
- Wellcome Trust, UK
- European Research Council
- Welsh Assembly (College of Experts) for review of applications on its Stars Wales program
- The Netherlands Organization for Scientific Research (NOW) Open Program

External Examiner Appointments

Programs and Departments

2006 – 2011: M.Sc. Sports Psychology, Manchester Metropolitan University

2005: University of Birmingham, School of Sport and Exercise Science, Mid-term Research Assessment Exercise Review

1998 – 2002: M.Sc. Sports Coaching and M.Sc. Sport and Exercise Science, Brunel University London

1997 – 2001: B.Sc. (Hons) Sport and Exercise Science, University of Strathclyde, Glasgow

Doctoral thesis examination

- Brunel University London, UK
- Manchester Metropolitan University, UK
- National University of Ireland, University College Dublin, Ireland
- University of London, UK
- Imperial College London, UK
- University of Aberdeen, UK
- University of Hull, UK
- University of Southampton, UK
- University of Wales, Swansea, UK
- Vrije University, Amsterdam, The Netherlands
- Norwegian Institute of Sport, Oslo, Norway
- Oporto University, Portugal
- University of Jyväskylä, Finland
- University of Umeå, Sweden
- University of Birmingham, UK
- University of Brighton, UK
- University of Exeter, UK
- University of Putra, Malaysia
- University of Paris-Sud, France
- University of Malaya, Kuala Lumpur, Malaysia
- University of Salzburg, Austria
- University of Strathclyde, UK
- University of Leuven, Belgium
- University of Ghent, Belgium
- Liverpool John Moores University, UK
- Queens University, Canada
- University of Berne, Switzerland
- University of British Columbia, Canada
- University of Utah, US
- Macquarie University, Australia
- University of Queensland, Australia

International Leadership Roles

- 2018-2021 American Kinesiology Association (AKA) Publications Committee Member
- 2016 to 2019 Member of the Research Council, American Alliance for Health, Physical Education, Recreation, and Dance (AAHPERD)
- 2016 Member of the Motor Control and Learning Program Committee for the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)
- 2010-2012 Chair of Motor Control and Learning Program Committee for the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)
- 2008 Member of the Sport Psychology Program Committee for the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)
- 2006-2009 British Association of Sport and Exercise Sciences, London 2012 Olympic Steering Group
- 2003-2012 Scientific Committee for the European College of Sports Science
- 1999 to 2016 Secretary-General, World Commission of Sports Sciences, an official Working Group of the International Council of Sport Science and Physical Education (ICSPE), affiliated to the International Olympic Committee

Workshops and Conferences Organized

1. United States Olympic Committee and University of Utah one-day conference on the theme of “Identifying and developing elite athletes’, Park City, Utah, June 2018.
2. One-day pre-conference workshop on Motor Control and Learning, European College of Sports Sciences, Clermont-Ferrand, France, July 2004.
3. British Association of Sport and Exercise Science Annual Conference, Adelphi Hotel, Liverpool, September 2000.
4. The 8th Annual Football Association Coaches Association Conference, Bolton Wanderers Football Club, Bolton, February 2003.
5. One-day workshop on Science and Sport, World Commission of Science and Sports, Liverpool John Moores University, Liverpool, June 2002.
6. The 7th Annual Football Association Coaches Association Conference, Adelphi Hotel, Liverpool, November 2001.
7. One-day workshop on Visual Search Behaviors in Sport, Liverpool John Moores University, Liverpool, August 2000.
8. Scottish Institute of Sport, Edinburgh workshop on Anticipation in Sport, Edinburgh, January 2002.
9. English Cricket Board workshop on perceptual demands of batting, November, Lilleshall, Shropshire, November 2001.
10. Sports Council for Wales workshop on Perceptual Skill in Sport, Cardiff, March 2001.
11. French Olympic Association workshop on Anticipation and Decision Making in Sport, Paris, November 2000.
12. British Olympic Association/National Coaching Foundation High Performance Workshop on Vision, Anticipation and Decision Making in Sport, Liverpool, August 2000.

***** I have been a member of the Scientific and Advisory Committees for circa 15-20 international conferences and workshops over the last 10 years.**

Advisory, Coach Education and Consultancy Roles

- AC Milan Football Club
- Adelaide Crows (Aussie rules football)
- Ajax Football Club
- Asian Football Confederation
- ASPIRE Academy, Qatar
- Australian Institute of Sport
- Barcelona Football Club
- Brazil Football Federation
- Brisbane Broncos (rugby league)
- British Badminton Association
- British Olympic Association
- British Gymnastics
- British Hockey Federation
- Bolton Wanderers Football Club
- Chicago Bears NFL
- English Cricket Board
- English Institute of Sport
- English Premier League
- Everton Football Club
- FIFA
- Asian Football Confederation
- Finnish Institute for Olympic Sports
- Football Association of Wales Trust
- Football Federation Australia
- Freemantle Australian Football
- GB Curling
- German Football Federation
- Harlequins, Rugby Union Club
- Hong Kong Sports Institute
- Irish Football Association
- International Management Group (IMG)
- Italian Athletic Federation
- Italian Olympic Committee
- Kansas City Royals, Major League Baseball (MLB)
- Los Angeles Lakers (MLB)
- Netherlands Football Association (KNVB)
- Netherlands Olympic Association
- Philadelphia 76ers (NBA)
- Portland Trailblazers(NBA)
- Portuguese Football Federation
- Real Madrid Football Club

- Real Salt Lake (MLS)
- Rugby Football Union
- Saracens Rugby Football Club
- Scottish Institute of Sport
- Sports Coach UK
- Sport and Recreation New Zealand
- Sport Ireland Institute
- Swedish Football Association
- Swiss Olympic Association
- The Football Association (England)
- Lawn Tennis Association
- Liverpool Football Club
- Manchester City Football Club
- Manchester United Football Club
- Ministry of Education, Singapore
- Mexican Football Association
- New York Yankees (MLB)
- New South Wales Institute of Sport
- Philadelphia 76ers (NBA)
- Professional Golfers Association
- UEFA
- UK Sport
- United States Olympic Committee
- United States Speed Skating
- United States Figure Skating
- United States Ski and Snowboard
- United States Soccer Federation
- United States Youth Soccer
- Utah Jazz
- West Ham United Football Club
- Irish Institute of Sport

Media Experience

- **Television** – I have made regular appearances on news and documentary programs for BBC 1, BBC 2, BBC Wales, ITV, S4C, Channel 4, CNN, Sky Sports, Sky One and The Discovery Channel. I have also acted as a consultant/scientific advisor for several production companies in the UK, including the BBC, Sky and ITV and have contributed to television programs in the United States, Germany, Holland, Sweden, Turkey, Brazil and Qatar.
- **Radio** – I have taken part in live and pre-recorded interviews for BBC Radio 2, 4 and 5, Radio Merseyside, Sky Radio, BBC World Service, BBC Radio Wales, Voice of America and overseas for radio channels in Brazil, Turkey, Mexico, Qatar and South Africa.
- **Newspapers** – The New York Times, Wired Magazine, Shanghai Daily, Gulf News, The London Times, The Guardian, Daily Telegraph, Daily Mirror, Daily Mail, Daily Express, The Sun, The Liverpool Echo and Liverpool Daily Post have all reported my work.
- **Popular Science** - Matthew Syed in 'Bounce' and Daniel Coyle in 'The Talent Code' have reported my work - popular science books that have been best-sellers on Amazon.

RESEARCH PUBLICATIONS

Peer Reviewed Journal Articles

Current top five articles published since 2014

1. Broadbent, D.A., Causer, J., Williams, A. M., & Ford, P.R. (2017) The role of error processing in the contextual interference effect during the training of perceptual-cognitive skills. **Journal of Experimental Psychology: Human Perception and Performance**, **43**, **7**, 1329-1342.
2. D’Innocenzo, G., Gonzalez, C.G., Nowicky, A.V., Williams, A.M., and Bishop, D.T. (2017) Motor resonance during action observation is gaze-contingent: A TMS study. **Neuropsychologica**, **103**, 77-86.
3. Denis, D., Rowe, R. Williams, A.M. and Milne, E. (2017) The role of cortical sensorimotor oscillations in action anticipation. **NeuroImage**, **146**, 1102–1114.
4. Murphy, C., Jackson, R.C., Cooke, K., Roca. A., Benguigui, N and Williams, A.M. (2017) Contextual information and perceptual-cognitive expertise in a dynamic, temporally-constrained task. **Journal of Experimental Psychology: Applied**, **22**, **4**, 455.
5. Murphy, C., Jackson, R.C. and Williams, A.M. (2018) The role of contextual information during skilled anticipation. **Quarterly Journal of Experimental Psychology**, **71**, **10**, 2070-2087.

Papers published and in press

1. Coughlan, E., Ford, P.R., and Williams, A.M. (in press) Lessons from the experts: The effect of increasing engagement in deliberate practice and cognitive processing on intermediate skill level performers. **Journal of Sport and Exercise Psychology.**
2. Vater, C., Williams, A.M. and Hossner, E. (in press) What do we see out of the corner of our eye? The role of visual pivots and gaze anchors in sport. **International Reviews of Sport and Exercise Psychology.**
3. Hendry, D.T., Crocker, P.R.E., Williams, A.M. and Hodges, N.J. (in press) Developmental activities and perceptions of challenge for National and Varsity female soccer players in Canada: Support for an early engagement pathway. **Psychology of Sport and Exercise.**
4. Gredin, V. G., Bishop, D. T., Broadbent, D. P., Tucker, A. and Williams, A. M. (in press) Experts integrate contextual priors and environmental information to improve anticipation efficiency. **Journal of Experimental Psychology: Applied.**
5. Hendry, D.T., Williams, A.M., Crocker, R.E. and Hodges, N.J. (in press) The dynamic nature of self-determined motivation among elite youth soccer players: Comparisons across age and skill in a combined prospective and cross-sectional design. **Journal of Sports Sciences.**
6. Alder, D., Ford, P.R., Caser, J. and Williams, A.M. (in press) Training with anxiety; the effects on gaze behaviour and anticipatory performance of elite athletes. **Human Movement Science.**
7. Williams, A.M. and Jackson, R.J. (in press) FEPSAC 50th anniversary: The past, present and future of research on perceptual-cognitive expertise. **Psychology of Sport and Exercise.**
8. Gredin, N.V., Broadbent, D.P., Findon., J.L., Williams., A.M. and Bishop., D.T. (in press) Increased task load impairs the use of contextual priors during anticipation: An EEG study. **Psychobiology.**
9. Hendry, D.T., Crocker, P.R.E., Williams, A.M. and Hodges, N.J. (2019) Tracking and comparing self-determined motivation in elite youth soccer: Influence of development activities, age and skill. **Frontiers in Psychology: Performance Science, 10, 304.**
10. Murphy, C., Jackson, R.J. and Williams, A.M. (2019) Informational constraints, option generation and anticipation. **Psychology of Sport & Exercise, 41, 54-62.**
11. Huttermann, S, Smeeton, N.J., Ford, P.R., Williams, A.M. and Memmert, D. (2019) Colour perception and attentional load in dynamic, time-constrained environments. **Frontiers in Psychology: Performance Science, 9.**
12. Runswick, O., Roca, A., McRobert, A., Williams, A.M. and North, J. (2019) Why do bad balls get wickets? The role of congruent and incongruent information in anticipation. **Journal of Sports Science, 35, 5, 537-543.**

13. O'Connor, D., Wardak, D., Goodyear, P., Larkin, P and Williams, A.M. (2018) Conceptualising decision-making and its development: a phenomenographic analysis. **Science and Medicine in Football, 2, 4, 261-273.**
14. Smeeton, N.J., Varga, Matyas, Causer, J. and Williams, A.M. (2018) Disguise and deception of action outcomes through sports garment design impair anticipation judgements. **Journal of Sport and Exercise Psychology, 40, 2, 73-81.**
15. Nevill, A.M., Williams, A.M., Boreham, C., Wallace, E., Abt, G., Lane, A. and Woodward, E. (2019) Can we trust Magnitude-based inference? **Journal of Sports Sciences, 36, 24, 2769.**
16. Broadbent, D.P., Gredin, N.V., Rye, J., Williams, A.M. and Bishop, D.T. (2018) The impact of contextual priors and anxiety on performance effectiveness and efficiency in anticipation. **Cognition and Emotion, 1-8.**
17. Alder, D., Causer, J., Ford, P.R. and Williams, A.M. (2018) The effect of anxiety on anticipation, allocation of attentional resources, and visual search behaviours. **Human Movement Science, 64, 81-89.**
18. Murphy, C., Jackson, R.C. and Williams, A.M. (2018) The role of contextual information during skilled anticipation. **Quarterly Journal of Experimental Psychology, 71, 10, 2070-2087.**
19. Runswick, O., Roca, A., Bezodis, N.E., Williams, A.M. and North, J.S. (2018) The effects of anxiety and situation-specific context on perceptual-motor skill: A multi-level investigation. **Psychological Research, 82, 4, 708-717.**
20. Williams, A.M. and Fawver, B. (2018) Key recent developments and potential future directions for research in motor behavior. **Kinesiology Review, 7, 123-129.**
21. Runswick, O., Roca, A., McRobert, A., Williams, A.M. and North, J. (2018) The temporal integration of information during anticipation. **Psychology of Sport and Exercise, 37, 100-108.**
22. Ellmers, T.J., Paraskevopoulos, I.T., Williams, A.M. and Young, W.R. (2018). Recalibrating disparities in perceived and actual balance abilities in older adults: A mixed- methods evaluation of a novel exergaming intervention. **Journal of NeuroEngineering and Rehabilitation, 15, 1, 26.**
23. Spitz, J., Put, K., Wagemans, J., Williams, A.M. and Helsen, W.F. (2018) The role of domain-generic and domain-specific perceptual-cognitive skills in expert decision making. **Journal of Sport and Exercise Psychology, 34, 45-56.**
24. O'Connor, D., Larking, P. and Williams, A.M. (2018) Observations of youth football training: how do coaches structure training sessions for player development? **Journal of Sports Sciences, 36, 1, 39-47.**

25. Broadbent, D.A., Causer, J., Williams, A. M., & Ford, P.R. (2017) The role of error processing in the contextual interference effect during the training of perceptual-cognitive skills. **Journal of Experimental Psychology: Human Perception and Performance**, 43, 7, 1329-1342.
26. Runswick, O., Roca, A., McRobert, A., Williams, A.M. and North, J. (2018) The impact of context on cognitive load and anticipation. **Applied Cognitive Psychology**, 32, 2, 149.
27. McRobert, A., Mercer, S.J., Raw, D., Goulding, J., and Williams, A.M. (2017) Examining expert performance during simulated high-fidelity anaesthetist scenarios. **British Medical Journal: Simulation & Technology Enhanced Learning**, 3, 43-47.
28. Williams, A.M. and Ward, P. (2017) Searching for the Holy Grail: Can there ever be such a things as a ‘Grand Unified Theory’ of sports performance. **Human Movement Science**, 56, 181-183.
29. D’Innocenzo, G., Gonzalez, C.G., Nowicky, A.V., Williams, A.M., and Bishop, D.T. (2017) Motor resonance during action observation is gaze-contingent: A TMS study. **Neuropsychologica**, 103, 77-86.
30. North, J.S., Hope, E., and Williams, A.M. (2017) The role of verbal instruction and visual guidance in training pattern recognition. **Frontiers in Psychology: Performance Science**, 8, 1473.
31. Williams, A.M. (2017) Journal of sports sciences: Past, present and future. **Journal of Sports Sciences**, 35, 13, 1229.
32. Williams, A.M., Fawver. B., and Hodges., N.J. (2017) Applying the expert performance approach to the study of expert learning. **Frontline Learning Research**, 5, 3, 139-154.
33. Causer, J., Smeeton, N.J. and Williams, A.M. (2017) Expertise differences in anticipatory judgments during temporally and spatially occluded task. **PloS One**, 12, 2, e0171330.
34. Broadbent, D.P., Ford., P.R., O’Hara, D.A., Williams, A.M. and Causer, J. (2017) The effect of a sequential structure of practice for the training of perceptual- cognitive skills in tennis. **PloS One**, 12, 3, e0174311.
35. North, J.S., Hope, E., and Williams, A.M. (2017) Identifying the micro-relations underpinning familiarity detection in dynamic displays containing multiple objects. **Frontiers in Psychology**, 8, 963.
36. Spitz, J., Put, K., Wagemans, J., Williams, A.M. and Helsen, W.F. (2017) Does slow motion impact on the perception of foul play in football? **European Journal of Sport Science**, 17, 6, 748-756.

37. Hodges., N.J., Ford., P.R., Hendry., D. and Williams., A.M. (2017) Getting gritty about practice and success: Motivational characteristics of great performers. **Progress in Brain Research**, **232**, 167-173.
38. Roca, A., and Williams, A.M. (2017). Decision-making skill in sport: Transfer vs. specificity. **Psychology of Sport & Exercise**, **31**, 40-43.
39. Burnett, A., Bishop, D., Ashford, K., Williams, A.M., & Kinrade, N. (2017) Decision- making of English Netball Superleague Umpires: Contextual and Dispositional Influences. **Psychology of Sport & Exercise**, **31**, 52-60.
40. Gonzalez, C., Causer, J., Miall, R.C., M.J. Grey, Humphreys, G., and Williams, A.M. (2017). Exploring the quiet eye in archery using field- and laboratory-based tasks. **Experimental Brain Research**, 1-13.
41. O'Connor, D., Larkin, P., & Williams, A.M. (2017). What learning environments help to improve decision-making? **Physical Education and Sport Pedagogy**, 1-14.
42. Williams, A.M. (2017) Journal of Sport Sciences: The past, present and future. **Journal of Sports Sciences**, **35**, 13, 1229.
43. Denis, D., Rowe, R. Williams, A.M. and Milne, E. (2017) The role of cortical sensorimotor oscillations in action anticipation. **NeuroImage**, **146**, 1102–1114.
44. Causer, J., Smeeton, N.J., and Williams, A.M. (2017). Expertise differences in anticipatory judgements during a temporally and spatially occluded task. **PloS one** **12**, **2**, e0171330.
45. Murphy, C., Jackson, R.C., Cooke, K., Roca. A., Benguigui, N and Williams, A.M. (2017) Contextual information and perceptual-cognitive expertise in a dynamic, temporally-constrained task. **Journal of Experimental Psychology: Applied**, **22**, **4**, 455.
46. Williams, A.M. (2016) Quiet eye vs. noisy brain: The eye like the brain is always active – comment on Vickers. **Current Issues in Sports Science**, **1**.116111-113.
47. Roca, A., and Williams, A.M. (2016) Expertise and interaction between different perceptual-cognitive skills: Implications for testing and training. **Frontiers in Psychology**, **7**, 792.
48. Spitz., J, Put., K., Wagemans., J., Williams, A.M., and Helsen, W.F. (2016) Visual search behaviours of association football referees during assessment of foul play situations. **Cognitive Research: Principles and Implications**, 1, 1, 12.
49. Ellmers, T.J., Machado, G., Wong, T.W.L., Zhu, F., Williams, A.M. and Young, W.R. (2016) A validation of neural co-activation as a measure of attentional focus in a postural task. **Gait and posture**, **50**, 229-231.
50. Ellmers, T.J., Cocks, A.J., Doumas, M., Williams, A.M., and Young, W.R. (2016) Gazing into thin air: The dual-task costs of movement planning and execution during adaptive gait. **PloS One**, **11**, **11**, e0166063.

51. Vater, C., Jackson, R.C., Roca, A. and Williams, A.M. (2016) The effects of anxiety on anticipation and visual search in dynamic, time-constrained situations. **Sport, Exercise, and Performance Psychology**, 5, 3, 179-192.
52. North, J.S., Hope. E. and Williams, A.M. (2016) Pattern recognition versus postural cues as determinants of successful anticipation. **Human Movement Science**, 49, 170-177.
53. Larkin, P. O'Conno, D., and Williams, A.M. (2016) Establishing the validity and reliability of a movement awareness and technical skill (MATS) analysis instrument in soccer. **International Journal of Performance Analysis in Sport**, 16, 1, 191- 202.
54. Alder, D., Ford, P.R., Causer, J. and Williams, A.M. (2016) The effects of anxiety on gaze behaviour and anticipatory performance of expert performers. **Journal of Sport and Exercise Psychology**, 38, 93-104.
55. D'Innocenzo, G., Bishop, D.T., Gonzalez, G.C. and Williams, A.M. (2016) Looking to learn: the effects of visual guidance on observational learning of the golf swing. **Plos One**, 11, 5, e0155442.
56. Larkin, P., O'Connor, D. and Williams, A.M. (2016) Perfectionism and sport specific engagement in elite youth soccer players. **Journal of Sport Sciences**, 34, 14, 1305-1310.
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32. Ward, P. and Williams, A.M. (2000) 'Reading the game': The development of perceptual expertise in academy football players. **Insight**, The Football Association Coaches Journal, 4, 4, 22-25.
33. Horn, R., Williams, A.M. and Grant, A. (2000) Analysis of France in World Cup 1998 and Euro 2000. **Insight**, The Football Association Coaches Journal, 4, 1, 40-43.
34. Ensum, J., Williams, A.M. and Grant, A. (2000) An analysis of attacking set plays in Euro 2000. **Insight**, The Football Association Coaches Journal, 4, 1, 36-39.
35. Horn, R. and Williams, A.M. (2000) Introducing football skills to young children. **Insight**, The Football Association Coaches Journal, 3, 3, 26-28.
36. Brown, M., Wilson, S., Grant, A. and Williams, A.M. (2000) Technical analysis of under 13 and under 16 matches. **Insight**, The Football Association Coaches Journal, 3, 2, 35-37.
37. Reilly, T. and Williams, A.M. (2000) Talent identification in football: A potential test battery. **Insight**, The Football Association Coaches Journal, 3, 2, 31-34.
38. Grant, A., Williams, A.M., Thomas, M. and Clemence, R. (2000) Goalkeeper distribution patterns in the Premier League. **Insight**, The Football Association Coaches Journal, 3, 2, 28-30.
39. Williams, A.M. (2000) Visual performance enhancement in football: Myth or reality? **Insight**, The Football Association Coaches Journal, 3, 2, 24.
40. Grant, A., Williams, A.M. and Hockin, M. (2000) Analysis of the successful and unsuccessful teams in the 1999 Women's World Cup. **Insight**, The Football Association Coaches Journal, 3, 1, 10-12.
41. Grant, A. and Williams, A.M. (2000) Analysis of the final 20 matches played by Manchester United in the 1998-99 season. **Insight**, The Football Association Coaches Journal, 3, 1, 42-45.
42. Williams, A.M., Reilly, T. and Franks, A. (2000) Identifying talented football players: A scientific perspective. **Insight**, The Football Association Coaches Journal, 3, 1, 20-25.

43. Murtough, J. and Williams, A.M. (1999) Using video in coaching. **Insight**, The Football Association Coaches Journal, 2, 4, 15-16.
44. Grant, A. and Williams, A.M. (1999) Analysis of Attacking Play in the 1997-98 English Premiership. **Insight**, The Football Association Coaches Journal, 2, 4, 25-27.
45. Grant, A., Williams, A.M., Dodd, R., and Johnson, S. (1999) Physiological and technical analysis of 11 vs. 11 and 8 vs. 8 youth football matches. **Insight**, The Football Association Coaches Journal, 3, 29-30.
46. Williams, A.M. (1999) Providing feedback during skill acquisition: The ten commandments **Insight**, The Football Association Coaches Journal, 3, 12-13.
47. Grant, A. and Williams, A.M. (1999) Analysis of sendings off during the 1997/98 FA Premier League season. **Insight**, The Football Association Coaches Journal, 2, 2, 20.
48. Grant, A., Reilly, T., Williams, A.M. and Borrie, A. (1998) Analysis of goals scored in the 1998 World Cup. **Insight**, The Football Association Coaches Journal, 1, 18-20.
49. Grant, A., Williams, A.M., Reilly, T. and Borrie, A. (1998) Analysis of the successful and unsuccessful teams in the 1998 World Cup. **Insight**, The Football Association Coaches Journal, 2, 1, 21-24.
50. Grant, A., Williams, A.M. and Reilly, T. (1998) The effect of sendings-off during the 1998 World Cup. **Insight**, The Football Association Coaches Journal, 2, 1, 17.
51. Grant, A. and Williams, A.M. (1998) Match analysis of previous World Cups (1986-1994). **Insight**, The Football Association Coaches Journal, 1, 4, 19-22.
52. Grant, A. and Williams, A.M. (1998) An analysis of penalty kicks. **Insight**, The Football Association Coaches Journal, 1, 2, 22.
53. Williams, A.M. (1998) Structuring practice for effective skill learning. **Insight**, The Football Association Coaches Journal, 2, 1, 12.
54. Williams, A.M. (1998) Practice, practice, practice. **Insight**, The Football Association Coaches Journal, 1, 4, 34-35.
55. Williams, A.M. (1998) Anticipation in football. **Insight**, The Football Association Coaches Journal, 1, 3, 17-21.
56. Williams, A.M. (1998) Verbal instructions and visual demonstrations. **Insight**, The Football Association Coaches Journal, 1, 3, 38-39.
57. Williams, A.M. (1998) Skill Learning in Football. **Insight**, The Football Association Coaches Journal, 1, 2, 6-8.

58. Grant, A. and Williams, A.M. (1997) An analysis of corner kicks. **Insight**, The Football Association Coaches Journal, 1, 3, 22-23.
59. Grant, A. and Williams, A.M. (1997) Analysis of possession in 1996-97 Premier League matches. **Insight**, The Football Association Coaches Journal, 1, 1, 22.
60. Williams, A.M. (1997) Skill learning and skilled performance. **Insight**, The Football Association Coaches Journal, 1, 1, 6-7.
61. Williams, A.M. and Davids, K. (1994) Eye movements and visual perception in sport. **Coaching Focus**, 26, 6-9.

PRESENTATIONS

Keynote Lectures

1. Williams, A.M. (2018) Developing expert performers. **IXth Brazilian Motor Behaviour Conference – Barru, San Paulo – August.**
2. Williams, A.M. (2017) Anticipation: Testing and training. **International High Performance Summit – San Antonio, Texas – July.**
3. Williams, A.M. (2017) Developing expertise in team sport athletes. **6th International Congress on Sports Games – Porto, Portugal – June.**
4. Williams, A.M. (2017) Developing elite footballers: Plasticity and specificity. **European College of Sports Science, Essen, Germany – June.**
5. Williams, A.M. (2017) Developing champions: Plasticity, adaptability and specificity. **Sports Science Summit, London – January.**
6. Williams, A.M. (2016) Developing skilled athletes: The psychology of greatness. **Sports Biometrics Conference, San Francisco – November.**
7. Williams, A.M. (2015) Anticipation in sport: From testing to training. **5th International Congress of Sports Games – Belo Horizonte/MG, Brazil – November.**
8. Williams, A.M. (2015) What makes a champion? Specificity, plasticity and adaptability in the development of expertise. **5th International Congress of Sports Games – Belo Horizonte/MG, Brazil – November.**
9. Williams, A.M. (2015) Visual search in sport: methods, measures and conceptual frameworks. **2nd International Workshop on Vision and Eye Tracking in Natural Environments and Solution Algorithms for Gaze Analysis – Bielefeld, Germany – October.**
10. Williams, A.M. (2014) Developing elite players: Lessons learnt from London 2012 and the Premier League in the UK. **Presentation to the State Assembly of Minas Gerias, Bella Horizonte, Brazil – October.**
11. Williams, A.M. (2014) Developing elite performers. **Spanish Sport Psychology Association Annual Conference, Caraces, Spain – May.**
12. Williams, A.M. (2014) Becoming skilled: Identifying and developing elite athletes. **ASPIRE Talent Identification Conference, Doha, Qatar – April.**
13. Williams, A.M. (2013) Creating an environment for developing elite players. **German Football Federation Annual Coaches Conference, Frankfurt, Germany – January.**

14. Williams, A.M. (2012) Environmental influences on the development of expertise. **3rd World Academy of Football Annual Conference, Amsterdam, The Netherlands – November.**
15. Williams, A.M. (2012) The psychology of excellence. **University of Umea, Psychology Conference, Umea, Sweden – November.**
16. Williams, A.M. (2012) Developing expert soccer players. **Swedish Football Association Annual Coaches Conference, Stockholm, Sweden – November.**
17. Williams, A.M. (2012) Environmental influences on the development of expertise. **Baltic Sports Science Association Annual Conference, Kaunas, Lithuania – April.**
18. Williams, A.M. (2011) Anticipation skill: From conceptual frameworks to application. **Cognitive Interaction Technology, Mechanisms of Attention: From Experimental Studies to Technical Systems. University of Bielefeld, Germany -October.**
19. Williams, A.M. (2010) Developing elite athletes. **Swedish National Centre for Research in Sports Congress, Stockholm, Sweden – October.**
20. Williams, A.M. (2010) Expertise and skill learning in sport and physical activity. **European College of Sport Science Congress, Antalya, Turkey – June.**
21. Williams, A.M. (2010) Visual search behaviors in sport. **42nd Annual Conference on Psychophysiology in Sport, University of Salzburg, Salzburg – May.**
22. Williams, A.M. (2010) How is expertise acquired? **Youth Olympic Games Scientific Conference, Singapore – May.**
23. Williams, A.M. (2010) Becoming skilled. **Italian Olympic Committee Annual Congress, Rome – April.**
24. Williams, A.M. (2010) Developing anticipation and decision making skill. **International Scientific Symposium on Biomechanics and Injury Prevention in Sport, Hong Kong Sports Institute, Hong Kong, China – April.**
25. Williams, A.M. (2009) Excellence in sports. **The Third International Scientific Symposium on Learning and Teaching of Motor Skills. Jyvaskyla, Finland - October.**
26. Williams, A.M. (2009) Experts and its acquisition across domains. **International Congress of the Society for Movement Science and Sport, Lyon, France - October.**
27. Williams, A.M. (2008) Developing expertise in coaches. **International Coaching Conference, Twickenham, London – November.**
28. Williams, A.M. (2008) Practice is not the only thing, it's everything! **III Meeting Internacional de Treinadores de Fuetbol, University of Coimbra, Portugal.**

29. Williams, A.M. (2008) Effective practice and instruction. **1st World Congress of Science and Football, Liverpool – May.**
30. Williams, A.M. (2008) Anticipation skill in tennis: From testing to training. **International Congress, French Tennis Federation, University of Dijon, France – April.**
31. Williams, A.M. (2008) Psychological limits on human performance. **European College of Sport Science Annual Congress, Estoril, Portugal – July.**
32. Williams, A.M. (2007) Implicit and explicit learning strategies. **1st Asian-Pacific Sports Science Conference, Hiroshima, Japan – December.**
33. Williams, A.M. (2007) Effective practice and instruction in sport. **Science of Success II Conference, Research Institute for Olympic Sports, Jyvaskyla, Finland – October.**
34. Williams, A.M. (2007) Perceptual-cognitive skill in cricket batting: Testing and development. **3rd World Congress of Science and Cricket, Barbados – April.**
35. Williams, A.M. (2007) Defining the path to excellence in football. **6th World Congress of Science and Football, Antalya, Turkey – January.**
36. Williams, A.M. (2006) Developing anticipation skill in racket sports. **4th World Congress of Science and Racket Sports, Madrid – October.**
37. Williams, A.M. (2005) Performance analysis in sport. **3rd World Congress on Physical Preparation, Mexico City – December.**
38. Williams, A.M. (2005) Developing expert performers. **3rd World Congress on Physical Preparation, Mexico City – December.**
39. Williams, A.M. (2005) Practice and instruction. **3rd World Congress on Physical Preparation, Mexico City – December.**
40. Williams, A.M. (2005) Anticipation and decision making skill. **3rd World Congress on Physical Preparation, Mexico City – December.**
41. Williams, A.M., (2005) Expertise in sport: Defining the path to excellence. **The 1st ASPIRE Sports Science Conference, Doha, Qatar – November.**
42. Williams, A.M. (2003) Developing perceptual expertise in sport: Exploring new horizons. **The North American Society for Psychology of Sport and Physical Activity Annual Conference, Savannah, Georgia – June.**
43. Williams, A.M. (2003) Structuring practice for effective learning. **Welsh Football Association Annual Conference, Wrexham, Wales – May.**
44. Williams, A.M. (2003) What match analysis tells us about successful performances in football. **Welsh Football Association Annual Conference, Wrexham, Wales – May.**

45. Williams, A.M. (2003) Developing game intelligence in football. **5th World Congress of Science and Football, Lisbon – April.**
46. Williams, A.M. (2003) Learning football skills effectively: Challenging tradition. **The Football Association Annual Conference, Bolton, England –February.**
47. Williams, A.M. (2002) Developing perceptual expertise. **Andalucia and Mediterranean Psychology Association Annual Conference, Melilla, Spain –December.**
48. Williams, A.M. (2002) Visual search strategy and sports performance. **2nd International Congress on Sports Science, INSEP, Paris – November.**
49. Williams, A.M. (2002) Assessing cue usage in performance contexts. **2nd International Congress on Sports Science, INSEP, Paris – November.**
50. Williams, A.M. (2002) A qualitative analysis of Brazil’s performances in the 2002 World Cup. **Sports Sciences Association of Turkey Annual Conference, Istanbul – October.**
51. Williams, A.M. (2002) Identifying talented football players. **Sports Sciences Association of Turkey Annual Conference, Istanbul – October.**
52. Williams, A.M. (2002) Talent identification in soccer: The role of sports science. **Real Madrid Football Club Centenary Conference, Madrid –September.**
53. Williams, A.M. (2002) Training perceptual skill in sport. **Science of Success Conference, Research Institute for Olympic Sports, Jyvaskyla, Finland –October.**
54. Williams, A.M. (2002) Visual search strategies in sport. **2nd International Congress on Sports Science, INSEP, Paris – November.**
55. Williams, A.M. (2002) Perceptual expertise in sport: Where to from here? **German Sport Psychology Association, Breme - May.**
56. Williams, A.M. (2000) Perceptual expertise in team games: Research, theory and practice. **French Association of Sport Psychology Annual Conference, Paris - July.**
57. Williams, A.M. (2000) Anticipation and decision making in football. **Keynote presentation at 2nd Asian Conference on Science and Football, Kuala Lumpur - May.**
58. Williams, A.M. (1998) A quantitative analysis of the 1998 FIFA World Cup. **The Football Association’s Coaches Association Annual Conference, Birmingham – October.**

Invited Lectures

1. Williams, A.M. (2018) What is anticipation? **National Academy of Kinesiology Annual Conference, Chicago – September.**
2. Williams, A.M. (2018) Multi-disciplinary and longitudinal approaches to talent identification. **US Olympic Committee and University of Utah Workshop on Identifying and Developing Elite Athletes, Park City – June.**
3. Williams, A.M. (2018) The Psychology of Excellence. **HBSE STTAR Summit organized by Philly 76ers, Philadelphia – June.**
4. Williams, A.M. and Fawver, B. (2017) Looking forward through the rear view mirror: recent developments and future directions in research on motor behavior. **North American Society for Sport and Physical Activity, 50th Anniversary Conference, San Diego – June.**
5. Williams, A.M. (2017) Visual search behaviours in dynamic, time-constrained domains. **University of Berne, Winter Academy, Berne, Switzerland – January.**
6. Williams, A.M. (2017) Talent identification and development. **US Youth Soccer Workshop, Los Angeles – January.**
7. Williams, A.M. (2017) Performance analysis. **US Youth Soccer Workshop, Los Angeles – January.**
8. Williams, A.M. (2016) Skill acquisition in medicine. **The European Society of Sports Traumatology, Knee Surgery and Arthroscopy, Barcelona, Spain – May.**
9. Williams, A.M. (2016) Perceptual-cognitive expertise in sport: Anxiety, fatigue and performance. **Inter-university workshop on Thinking Correctly Under Pressure, University of Leuven, Belgium – January 2016.**
10. Williams, A.M. (2015) The Quiet Eye phenomenon. **Royal Society of Medicine, London, UK – April.**
11. Williams, A.M. (2013) Nature vs. Nurture: Factors that impact on the development of expertise. **University of Ulster, Belfast, UK – February.**
12. Williams, A.M. (2012) Skill acquisition in soccer: From theory into practice. **3rd World Congress on Science and Soccer, Ghent, Belgium – May.**
13. Williams, A.M. (2012) Expertise and expert performance. **Barry University, Miami – April.**
14. Williams, A.M. (2012) Environmental influences on the development of expertise. **Groningen Lecture Series, University of Groningen, The Netherlands – January.**

15. Williams, A.M. (2011) Visual search and skilled behaviours across domains. **Cognitive Interaction Technology – Mechanisms of Attention: From Experimental Studies to Technical Systems. University of Bielefeld, Germany – October.**
16. Williams, A.M. (2011) Practice, instruction and skill acquisition in football. **The VIIth World Congress of Science and Football, Nagoya – May.**
17. Williams, A.M. (2011) Preparing for success. **Swiss Sports Science Association Annual Congress, Lausanne, Switzerland – February.**
18. Williams, A.M. (2010) Expertise in sport: Are there early indicators of success? **III International Conference of Physical Education and Sports Science, National Institute of Education, Singapore – May.**
19. Williams, A.M. (2009) Anticipation and decision-making skill: From testing to training. **Euromov Centre, University of Montpellier, Montpellier – December.**
20. Williams, A.M. (2008) Detect, interpret and act on environmental cues for decision making: It can be measured! **United States Olympic Training Centre, Colorado Springs – November.**
21. Williams, A.M. (2008) Exploring the limits on human achievement. **Department of Sport, Recreation and Human Performance, Victoria University of Technology (Melbourne); Department of Exercise and Sports Science, University of Western Australia (Perth); Hong Kong Sports Institute (Hong Kong) – August.**
22. Williams, A.M. (2008) Defining the path to performance excellence across domains. **International Olympic Committee, Pre-Olympic Scientific Congress, Guangzhou, China – August.**
23. Williams, A.M. (2007) Promoting performance excellence across domains. **Department of Applied Physiology and Kinesiology, University of Florida – May.**
24. **Williams, A.M. (2007) What type of practice makes perfect? 6th World Congress of Science and Football, Antalya, Turkey – January.**
25. Williams, A.M. (2007) Developing anticipation and decision-making. **6th World Congress of Science and Football, Antalya, Turkey – January.**
26. Williams, A.M. (2006) Mapping the path to excellence in sport. **Department of Kinesiology, University of British Columbia and Faculty of Health and Kinesiology, University of Calgary – December.**
27. Williams, A.M. (2006) Performance analysis in sport. **The English Institute of Sport, Manchester – November.**
28. Williams, A.M. (2006) Developing elite performers. **Swiss Olympic Institute, Magglingen, Switzerland – November.**

29. Williams, A.M. (2006) Talent identification and development. **Institute of Sports Sciences, University of Porto, Porto – June.**
30. Williams, A.M. (2006) Structuring practice for effective learning. **University of Catalonia, Barcelona – May.**
31. Williams, A.M. (2005). Developing 'game intelligence': Quantifying anticipation skill in sport. **University of Catalonia, Barcelona - April.**
32. Williams, A.M. (2004). Expert performance in sport. **Department of Kinesiology, University of Illinois, Urbana-Champaign - November.**
33. Williams, A.M. (2004). Defining the path to excellence in sport. **British Association of Sport and Exercise Sciences Annual Conference, Liverpool –September.**
34. Williams, A.M. (2003). Perceptual and cognitive expertise in sport: Where to from here? **Department of Psychology, Florida State University – October.**
35. Williams, A.M. (2003) Practice, instruction and skill acquisition in soccer: Challenging tradition. **European College of Sports Science Annual Conference, Salzburg, Austria – June.**
36. Williams, A.M. (2002) Perceptual expertise in sport: Current status and future directions. **7th European Congress of Sports Science, Athens – July.**
37. Williams, A.M. (2001) Key issues in the development of expert performers. **Department of Exercise and Sport Sciences, University of Florida, and the Department of Psychology, Florida State University – April.**
38. Williams, A.M. and Singer, R.N. (1999) Perceptual expertise in sport: Research, theory and practice. **School for Health and Physical Education Science, University of Wales and the Departments of Psychology, University of Dublin and Queens University, Belfast – November.**
39. Williams, A.M. (1999) Measuring visual behaviour in dynamic sport contexts. **Department of Psychology, University College, Dublin – April.**
40. Williams, A.M. (1999) Perceptual expertise in sport. **Scottish School of Sports Studies, University of Strathclyde, Glasgow – January.**
41. Williams, A.M. and Carmichael, S. (1998) Vision and action in cricket. **Sports Vision Association, British Optometry Association, St Bartholomew's Hospital, London – May.**
42. Williams, A.M. (1996) Perceptual skill in sport. **Division of Sport, Health and Exercise, Staffordshire University, Stoke-on-Trent – May.**

43. Williams, A.M. (1996) Anticipation and skill in team games. **British Psychological Society - North of England Branch, UMIST, Manchester – February.**
44. Williams, A.M. (1995) Visual search strategy in sport. **Sports Vision Association Annual Meeting, Department of Optometry and Vision Science, The City University, London – May.**
45. Williams, A.M. (1995) Visual search strategy, selective attention and expertise in Sport: Current status and future directions. **Victoria University Technology, Melbourne; University of Southern Queensland, Toowoomba; University of Queensland, Brisbane, Australia – October.**
46. Williams, A.M. (1995) The Motor Systems - Action Systems controversy. **Department of Exercise and Sport Sciences, University of Florida, Gainesville, USA – November.**
47. Williams, A.M. (1995) Skilled perception in sport. **Department of Exercise and Sport Sciences, University of Florida, Gainesville, USA – November.**
48. Williams, A.M. (1993) Eye movements in sport. **Roger Trimble Neuro-Ophthalmology Meeting, Faculty of Medicine, University of Liverpool – June.**
49. Williams, A.M. and Davids, K. (1992) How are sport actions controlled? **British Association for the Advancement of Science Festival, University of Southampton – August.**

Invited Conference Symposia

2015 – **14th European Congress of Sport Psychology**, Berne ‘Perception-action coupling in sports with an emphasis on the Quiet Eye phenomenon with A. Klostermann (Bern), J. Vickers (Calgary), D. Mann and R. Canal-Bruland (VU Amsterdam), C. Gonzales (Brunel University London), M. Grey and C. Miall (Birmingham) and G. Humphreys (Oxford).

2015 – **14th European Congress of Sport Psychology**, Berne ‘Perceptual-cognitive expertise in sports: Where have we been and where are we going?’ with P. Ward (University of Huddersfield), C. Murphy and R. Jackson (Brunel University London), M. Raab (Cologne) and K. Put and W. Helsen (Leuven).

2012 – **International Convention on Science, Education and Medicine in Sport**, Glasgow ‘Sports coaching effectiveness and expert performance: science in the ‘art’ with P.R. Ford (Liverpool John Moores University), J. Côté (Queens University, Quebec) and C. Cushion (Loughborough University).

2012 – **International Convention on Science, Education and Medicine in Sport**, Glasgow ‘Anticipation skill in Olympic sports: advances in theory and practice’ with N. Smeeton (University of Brighton), M. Khan/G. Lawrence (University of Wales, Bangor) and R. Jackson (Brunel University).

2012 – **North American Society of Sport and Physical Activity**, Honolulu, Hawaii ‘Neural mechanisms underpinning aiming tasks’ with J. Causer (Liverpool John Moores University), J. Vickers (University of Calgary) and M. Wilson (University of Exeter).

2012 – **3rd World Congress on Science and Soccer, Ghent** ‘Psychology and soccer’ with G. Jordet (Norwegian Institute of Sport) and G. Savelsbergh (Virije University, Amsterdam).

2011 – **The VIIth World Congress of Science and Football, Nagoya** ‘Biomechanics and skill acquisition in football codes’ with K. Ball (Victoria University), N. Hiroyuki (University of Nagoya) and E. Henning (University of Essen).

2010 – **The 3rd International Conference of Physical Education and Sports Science, Singapore** ‘Talent identification and development in sports’ with Lee Kok Song (Ministry of Education, Singapore), K. Norton (University of South Australia, Adelaide) and S. Yamashita (Institute of Sports Science, Japan).

2009 – **The 4th International Conference on Spatial Cognition: Spatial Cognition and Action, Rome, Italy** ‘Gaze and cognitive control in motor performance’ with J. Vickers (University of Calgary), M. Wilson (University of Exeter), R. Oudejans (Virije University, Amsterdam) and D. Pachuka (Victoria University, Melbourne).

2008 – **International Olympic Committee, Pre-Olympic Scientific Congress, Guangzhou, China** ‘Practice, instruction and expert performance’ with R. Masters and J. Maxwell (University of Hong Kong).

2008 – **Royal College of Nursing, Liverpool, UK.** ‘Expert performance and professional judgement: What is it and how do we know it?’ with D. Mazhindu and A. McRobert (Liverpool John Moores University, Liverpool), N. Jones and D. Raw (Cheshire and Merseyside Simulation Centre, Aintree Hospital, Liverpool) and J. Whyte (Florida State University, Tallahassee).

2008 – **British Psychological Conference, Dublin, Ireland.** ‘Vision, performance and learning’ with G. Breslin (University of Ulster), C. Craig (Queens University, Belfast), S. Hayes, S. Hansen, S. Bennett and D. Elliott (Liverpool John Moores University, Liverpool)

2007 – **European Sport Psychology Congress, Thessaoloniki, Greece.** ‘On becoming skilled: implications for visual-motor practice’ with K. Keetch and T. Lee (McMaster University), R. Schmidt (UCLA), N. Hodges (University of British Columbia), G. Savelsbergh (Virije University, Amsterdam), G. Breslin (University of Ulster) and P. Ford (Liverpool John Moores University).

2007 – **European Sport Psychology Congress, Thessaoloniki, Greece.** ‘What is the influence of knowledge on a players’ behaviours?’ with H. Ripoll (University of Marseilles), D. Araujo Technical University of Lisbon), J. North (Sheffield Hallam University), Markus Raab (University of Flensburg) and P. Beek (Virije University, Amsterdam).

2007 – **European Sport Psychology Congress, Thessaoloniki, Greece.** ‘Research and practice in imagery and observation in sport: an integrative approach’ with P. Holmes (Manchester Metropolitan University), M. Edwards and J. Cumming (University of Birmingham), N. Callow (University of Wales) and D. Smith (University of Chester).

2007 – **North American Society for Psychology of Sport and Physical Activity, San Diego, California.** ‘Functional brain imaging of action observation: Implications for skill acquisition’ with S. Vogt (University of Lancaster), S. Beilock (University of Chicago), P. Gribble (University of Western Ontario), and J. Munzert (University of Giessen).

2007 – **European Workshop on Movement Science, Amsterdam, The Netherlands.** ‘Anticipation and decision making in sport’ with R. Oudejans (Virije University, Amsterdam), J. North (Sheffield Hallam University), R. Vaeyens (University of Ghent) and N. Smeeton (University of Brighton).

2006 – **European College of Sport Science, Lausanne, Switzerland.** ‘Anticipation and decision-making skill’ with C. Janelle (University of Florida), J. North (Liverpool John Moores University), R. Vaeyens (University of Ghent), and P. Ward (Florida State University).

2005 – **North American Society for Psychology of Sport and Physical Activity, St Petersburg, Florida.** ‘Attentional focus and expertise’ with J. Starkes (McMaster University), K.A. Ericsson (Florida State University), S.L. Beilock (University of Chicago, H. Maurer (Just-Liebig-University, Geissen), J. Vickers (University of Calgary), and C. MacMahon (Florida State University).

2004 – **American Psychological Society, Hawaii,** ‘New methodological approaches in sport psychology’ with C. Janelle (University of Florida).

2004 – **North American Society for Psychology of Sport and Physical Activity**, Vancouver. ‘New methodologies in the psychology of sport and physical activity’ with N.J. Hodges (Liverpool John Moores University), R. Horn (Montclair State University), G. Tenenbaum (Florida State University) and C. Janelle (University of Florida).

2004 – **American Alliance for Health, Physical Education, Recreation, and Dance**, New Orleans. ‘Visual information pick up during performance and learning’ with R. Horn (Montclair State University), J. Vickers (University of Calgary) and N. Smeeton, S. Hayes, N.J. Hodges (Liverpool John Moores University).

2002 – **European College of Sports Science**, Athens. ‘What makes the sport expert?’ with R. Daus (Germany) and G. Savelsbergh (Vrije University, Amsterdam).

2002 – **British Psychological Society**, Blackpool. ‘Concentration skills training in sport’ with Aidan Moran (University College Dublin), Robin Jackson (Brunel University), Brian Hemmings (University College Chichester), Sara Cecil (St. Mary’s College, London).

2001 – **ISSP 10th World Congress of Sport Psychology**, Skiathos. ‘New findings and emerging issues in the training, development and acquisition of expert performance’ with Chris Janelle (University of Florida), Jean Côté and Janice Deakin (Queen’s University, Canada), John Salmela (Universidade Federal de Minas Gerais, Brazil) and Anders Ericsson (Florida State University).

2000 – **Pre-Olympic Scientific Congress**, Brisbane. ‘Decision making expertise in sport’ with B. Abernethy (University of Queensland), G. Tenenbaum (Florida State University) and R. Singer (University of Florida).

1999 – **British Association of Sport and Exercise Sciences/British Psychological Society**, Leeds. ‘Vision and interceptive actions in sport’ with K. Davids and S. Bennett (Manchester Metropolitan University), G. Savelsbergh (Free University Amsterdam), C. Handford (Loughborough University), T. Holder (Chichester Institute), M. Scott and C. Weigelt (John Moores University).

1999 – **European College of Sports Sciences Conference**, Rome. ‘Perception action coupling in sport’ with K. Davids and S. Bennett (Manchester Metropolitan University), J. Temprado (University of Marseilles) and G. Savelsbergh (Free University Amsterdam).

1999 – **IV World Congress of Science and Football**, Sydney. ‘Skill and performance in football’ with T. Reilly (Liverpool John Moores University), T. Morris (Melbourne University of Technology) and J. Bangsbo (University of Copenhagen).

1998 – **American Psychological Society**, San Francisco. ‘Motor expertise’ with C. Janelle and R. Singer (University of Florida).

1998 – **North American Society for Psychology of Sport and Physical Activity**, Chicago. ‘Motor expertise in sport: current status and future directions’ with C. Janelle and R. Singer (University of Florida) and J. Vickers (University of Calgary).

1998 – **British Psychological Society**, Brighton. Skill acquisition in sport' with K. Davids and S. Bennett (Manchester Metropolitan University) and C. Weigelt (Liverpool John Moores University).

1997 – **ISSP 9th World Congress of Sport Psychology**, Wingate, Israel. 'Perception-action coupling in sport' with R. Bootsma (University de Mediterranean) and S. Bennett (Manchester Metropolitan University).

1996 – **Pre-Olympic Scientific Congress**, Dallas. Official 'Anticipation and decision making in sport' with G. Tenenbaum (University of Southern Queensland) and R. Singer (University of Florida).

1995 - **North American Society for Psychology of Sport and Physical Activity**, Clearwater Beach, Florida. 'Visual search and sports performance' with J. Cauraugh and R. Singer (University of Florida) and J. Summers (University of Southern Queensland).

Conference Presentations

1. Carey, L.M., Jackson, R.C., Fairweather, M.M., Causer, J., and Williams (2016) Gaze behaviours of elite golfers: Does task difficulty influence quiet eye? **World Scientific Congress of Golf, St Andrews, Scotland – June.**
2. Coughlan, E., Ford, P.R., McRobert, A. and Williams, A.M. (2011) How skilled and less-skilled Gaelic footballers practice kicking: Deliberate or not!? **The VIIth World Congress of Science and Football, Nagoya – May.**
3. Roca, A.R., Ford, P.R., McRobert, A. and Williams, A.M. (2011) The processes underpinning ‘game intelligence’ skill in players. **The VIIth World Congress of Science and Football, Nagoya – May.**
4. Cañal-Bruland, R. & Williams, A.M. (2009) Movement recognition and anticipation with point-light animated tennis shots. **ISSP World Congress of Sport Psychology, Marrakech, Morocco – June.**
5. Smeeton, N.J., Huys, R., Beek, P. and Williams, A.M. (2007) Low dimensional dynamic information underlies anticipation skill in tennis. **European Workshop on Movement Science, Amsterdam, The Netherlands – April.**
6. Vaeyens, R., Williams, A.M., Lenoir, M, and Phillipaerts, R. (2007) Game-reading skill in youth soccer. Investigating underlying mechanisms. **European Workshop on Movement Science, Amsterdam, The Netherlands – April.**
7. North, J.N. and Williams, A.M. (2007) The processes underpinning skilled recognition and anticipation in soccer. **European Workshop on Movement Science, Amsterdam, The Netherlands – April.**
8. Harris, K.R., Tashman, L., Ward, P., Ericsson, K.A., Eccles, D.W., Williams, A.M., Ramrattan, J. and Lang, L.H. (2006). Planning, evaluation, and cognition: Exploring the structure and mechanisms of expert performance in a representative dynamic task. **28th Annual Conference of the Cognitive Science Society, Vancouver, Canada – July.**
9. Eccles, D. W., Ward, P., Ericsson, K. A., Harris, K. R., Sacks, D. N., Williams, A. M., and Hassler, L. B. (2005) Using a delayed retrospective report method to increase the reliability of verbal reports of past events. **Association for the Advancement of Applied Sport Psychology, Vancouver, Canada – October.**
10. Hayes, S.J., Hodges, N.J., Breslin, G., Williams, A.M., and Scott, M.A. (2003). Minimal constraining information for movement reproduction. **Canadian Society for Psychomotor Learning and Sport Psychology, Hamilton, Canada – October.**
11. Williams, A.M. (2003) Visual behaviour during cricket batting: A preliminary investigation. **Paper presented at 2nd World Congress of Science and Cricket, Stellenbosch, South Africa – February.**

12. Williams, A.M. (2002) Training visual attention in sport. **British Psychological Society, Annual Conference, Blackpool, UK – March.**
13. Williams, A.M. (2000) Developing perceptual expertise in sport: From theory to practice. **Pre-Olympic Scientific Congress, Brisbane, Australia – September.**
14. Weigelt, C. and Williams, A.M. (1999) Vision and proprioception in lower limb interceptive actions. **British Association of Sport and Exercise Sciences, Leeds, UK – September.**
15. Grant, A.G., Williams, A.M., Dodd, R., and Johnson, S. (1999) Physiological and technical analysis of 11 vs. 11 and 8 vs. 8 youth soccer matches. **IV World Congress of Science and Football, Sydney, Australia – February.**
16. Weigelt, C. and Williams, A.M. (1998) Do experts need vision of the leg during lower leg interceptive actions? **British Psychological Society, Brighton, UK - March.**
17. Williams, A.M. (1999) Perceptual skill in soccer: Implications for talent development. **IV World Congress of Science and Football, Sydney, Australia – February.**
18. Williams, A.M. (1998) Perceptual expertise in sport: From theory to practice. **British Psychological Society, Brighton, UK – March.**
19. Williams, A.M. and Davids, K. (1997) Visual search strategy in sport: A dynamical systems perspective. **ISSP IX World Congress of Sport Psychology, Israel – July.**
20. Singer, R.N., Williams, A.M., Frehlich, S., Janelle, C.M., Radlo, S.J., Barba, D.A. and Bouchard, L.J. (1996) Visual search strategy in on-court situations in tennis. **American Association of Applied Sport Psychology Conference, Williamsburg, USA – October.**
21. Williams, A.M. (1996) Visual search strategy, anticipation, and expertise in team games. **Pre-Olympic Scientific Congress, Dallas, USA – July.**
22. Williams, A.M., Davids, K. and Burwitz, L. (1995) Visual search strategy, selective attention and expertise in 3 vs. 3 and 1 vs. 1 situations in soccer. **The Australian Conference of Science and Medicine in Sport, Hobart, Tasmania – October.**