

Cecilia Severin, Ph.D.

Norwegian University of Science and Technology
Department of Neuromedicine and Movement
Science
Høgskoleringen 1, 7491 Trondheim
Norway

Personal		+47 413 22 182
Work		Cecilia.Severin@ntnu.no
Personal		Cicci.Severin@gmail.com
Twitter		Cicci.Severin
LinkedIn		Cecilia Severin
ResearchGate		Anna Severin

PROFESSIONAL INTERESTS

My research interests focus on rehabilitation and performance from a biomechanical perspective. I have a particularly strong interest in the biomechanical consequences of pain from injury or disability on acute and long-term motion. I also have a strong passion for teaching. I especially enjoy teaching subjects related to sport, performance, biomechanics, functional anatomy, and exercise science.

EDUCATION

Doctor of Philosophy

University of the Sunshine Coast, QLD, Australia, September 2014 – September 2017

Dissertation: “*Aquatic therapy in rehabilitation: A kinematic approach to understanding the efficacy of water-based exercise*”. Available online at:

<http://research.usc.edu.au/vital/access/manager/Repository/usc:25474?query=Severin&queryType=vitalDismax>

- Fully funded scholarship from the Kirk Foundation (AU\$75,000),
- Advisors: Dr Mark Sayers, Prof. Brendan Burkett & Dr Mark McKean
- Validated IMU’s in tracking kinematics
- Performed innovative kinematic data collection in the aquatic environment

Sport and Exercise Science B.Sc. (Hons.) class 1

University of the Sunshine Coast, QLD, Australia, January 2011 – June 2014

- GPA 6.25/7, Minor in Performance Enhancement, Received Faculty Commendation,
- Honours thesis: “Influence of previous groin pain on hip and pelvic instep kick kinematics.”
- Advisors: Dr Mark Sayers, Mr. Daniel Mellifont P.T.

Bachelor of Education

Stockholm University, Stockholm, Sweden, September 2007 – November 2008

Completed 3 semesters with courses in social sciences, studies of the practicum school and

school environment. UIN01N - 15hp (included courses MO02 6hp, MOM1 6ph, MOM3 3hp), KULTT1 15hp (included courses UKL1 7.5 hp, UKL2 7.5hp), and BASARB.

CURRENT POSITION

Senior Researcher

Department of Neuromedicine and Movement Science, *Norwegian University of Science and Technology, Trondheim, Norway*, January 2020 – Present

Part of the Paralympic research team at SenTIF where I am leading methodological development, data collection, processing, and analysis, and manuscript writing in several projects focusing on Paralympic athletes. Projects are multidisciplinary and aims at furthering the development of the Paralympic Sport movement through research on the classification system, athlete performance during competition and training, and how certain impairments affect everyday life, sporting participation, and sporting performance.

PREVIOUS RESEARCH EXPERIENCE

Post-Doctoral Research Fellow

Department of Orthopaedic Surgery, *University of Arkansas for Medical Sciences, AR, USA*, May 2018 – December 2019

Advisor: Dr Erin Mannen

Lead methodological development, data collection, processing, and analysis, and manuscript writing in several projects, including assessing the biomechanics of golf swings, gait, yoga and sporting tasks in populations with orthopaedic injuries or following orthopaedic surgeries. Projects also included examining methods to improve physical examination methods for determining the success of arthroplasty. Also assisted surgeons and guiding and students in preparing grant proposals and applications

Research assistant

- Environment and Planning Studies Alumni Satisfaction, and Geography Studies Alumni Satisfaction Survey, for Prof. Jennifer Carter, University of the Sunshine Coast, 2014 – 2015
- An investigation into the influence of differing levels of representativeness on landing technique in sport, for Dr Adam Gorman, University of the Sunshine Coast, 2016 – 2017.

ACADEMIC TEACHING EXPERIENCE

University Guest lecturer

University of Arkansas for Medical Sciences, Little Rock, AR, USA; November 2018 – present

Presented lecturers in Biomechanics, Functional anatomy, and research related topics to medical students.

University Sessional teaching staff

University of the Sunshine Coast, Sippy Downs, QLD, Australia; July 2013 – October 2017
Member of the teaching teams for courses in several undergraduate programs, including Sport and Exercise Science, Biomedical Science, Paramedic Science, and Clinical Exercise Physiology. Tasks included running tutorials, marking exams, demonstrating, and teaching concepts and assessing students practically.

- Human Anatomy (LFS122), 2014 – 2017, introductory level, 12 units, 326-511 students. Teaching format: face-to-face/online lectures and practical tutorials.
- Biomechanics I (SPX202), 2014 - 2017, developing level, 12 units, 106-141 students. Teaching format: face-to-face lectures and practical tutorials.
- Functional Anatomy (SPX201), 2013 - 2014, developing level, 12 units, 212-228 students, teaching format: face-to-face lectures and practical tutorials
- Sport and Exercise Science (SPX101), 2016-2017, introductory level, 12 units, 233-254 students. Teaching format: face-to-face/online lectures and practical tutorials.

INDUSTRY EXPERIENCE

Sport Scientist/Rehabilitation Coach,

Brisbane Roar FC, Brisbane, QLD, Australia, March 2017 – October 2017

Head sports scientist and rehabilitation coach for the U18 and U20 teams. Also assisted in developing protocols and documents for the 2018 launch of the Brisbane Roar Youth Academy.

Sport Scientist/Rehabilitation Coach,

Brisbane Strikers FC, Brisbane, QLD, Australia, January 2016 – March 2017

Head sports scientist and rehabilitation coach for the U18 and U20 teams (2016 season) and for all youth teams from U12 – U16 (early 2017 season).

Sport Scientist/Rehabilitation Coach Consultant,

Football Queensland, Brisbane, QLD, Australia, January 2016 – October 2017

Consultant sports scientist and rehabilitation coach for the Football Queensland Referees during State School Championship tournaments.

Sport Scientist/Rehabilitation Coach,

Sunshine Coast FC, QLD, Kawana, Australia, January 2013 – October 2015

Head sports scientist and head of sports medicine for all teams (U12 – seniors).

LEADERSHIP AND SERVICE

UAMS

- Departmental
 - *Orthopaedic Resident Research Committee*, Member; 2018 to 2019.
- Institutional
 - *Women's Faculty Development Caucus' Mentoring Committee*; Member, 2019
 - *Women's Faculty Development Caucus' Research Committee*; Member, 2019 American College of Sports Medicine
- Interest group member
 - *Biomechanics interest group*; Member, 2019 to present

- *Medicine and Science in Team Sports interest group*; Member, 2019 to present, Committee member 2019 to present

Community Outreach

- *Harding University*: Field Trip Host, Little Rock, AR, March 2019
- *University of Central Arkansas*: Field Trip Host, Little Rock, AR, November 2018
- *Perry Initiative*: presenter and mentor at 2018 UAMS Perry Initiative meeting, Little Rock, AR, November 2018. Mentor at 2019 UAMS Perry Initiative meeting, Little Rock, AR, November 2019
- *Museum of Discovery Girls in STEM Summer Camp*: Mentor and Field Trip Host. Little Rock, AR; Summer 2018.

Reviewer for journals and conferences

- Reviewer for PLOS One since 2020
- Reviewer for the American Society of Biomechanics 2020 conference in Atlanta (total of nine abstracts reviewed)
- Reviewer for Sports since 2019 (to date – five assignments since March 2019).
- Reviewer the GCMAS 2019 conference in Dallas (total of seven reviewed abstracts).
- Review applications for session topics for the 2020 ACSM conference in my role as committee member of the Medicine and Science in Team Sports interest group.

PROFESSIONAL AFFILIATIONS, HONORS AND AWARDS

Affiliations

- Swedish Society of Biomechanics, *Member*, 2019 – present
- American College of Medicine in Sports, *Professional member in training*, 2019 – present
- European Society of Biomechanics, *Member*, 2019 – present
- International Society of Biomechanics in Sports, *Member*, 2018 – present
- International Society for Biomechanics, *Member*, 2018 – present
- Orthopaedic Research Society, *Associate Member*, 2018 – present
- Professional Coaching Scheme Australian Strength and Conditioning Association, *Member*, 2011 – present
- Sports Medicine Australia, *Member*, 2011 – 2018
- Golden Key International Honors Society, *member*, 2013 – present

Awards

- Semi-Finalist for the New Investigator Award at International Society of Biomechanics in Sports, 2019.
- UAMS Junior Investigator Travel Award, 2019, \$1,200 USD
- Best Podium Presentation, Sports Biomechanics session at the Mid-South Biomechanics Conference, 2019
- Faculty Commendation Award, 2013

PEER-REVIEWED PUBLICATIONS

*Severin AC Corresponding Author

‡Mentored Student/Resident/Fellow

1. Havens KL, Severin AC, Kahney A, Bumpass D, Mannen EM. Baby Carrying Method Impacts Caregiver Posture and Loading During Gait and Item Retrieval. *Gait and Posture*. 2020;80:117-123. doi: 10.1016/j.gaitpost.2020.05.013
2. Severin AC, ‡Gean RP, Tackett SA, Queen R, Mannen EM, Barnes CL, Martin R. Effects of the presence of a contralateral in-shoe heel lift during gait with an orthopaedic walking boot. *Gait and Posture*. 2019;73:233-238. doi: 10.1016/j.gaitpost.2019.07.374
3. Severin AC, Tackett SA, Barnes CL, Mannen EM. Three-dimensional kinematics in healthy older adult males during golf swings with different clubs. *Sports Biomechanics*. 2019: Epub ahead of print: 1-14 DOI: 10.1080/14763141.2019.1649452.
4. Severin, Anna C.; Tackett, Stewart A.; Simpson, Hannah E.; Barnes, Lowry C.; and Mannen, Erin M. Does hand speed relate to club head speed or ball speed during a golf swing? *ISBS Proceedings Archive*. 2019;37(1). URL: <https://commons.nmu.edu/isbs/vol37/iss1/24>
5. Mears SC, Tackett SA, Severin AC, Mannen EM, Barnes, CL, ‡Barnes SG, Martin R. The positions of the Ankle in Yoga. *Foot and Ankle International*. Accepted January 2019
6. Severin AC, ‡Barnes SG, Tackett SA, Barnes CL, Mannen EM. The required number of trials for biomechanical analysis of a golf swing. *Sports Biomechanics*. 2019; ePub: Jan 30;1-9. doi: 10.1080/14763141.2018.1554085
7. *Severin AC, Burkett BB, McKean MR, Wiegand AN, Sayers MG. Effects of water immersion on squat and split-squat kinematics in older aged adults. *Journal of Ageing and Physical Activity*. 2019;27(3):398-405. doi: 10.1123/japa.2018-0166.
8. *Severin AC, Burkett BJ, McKean MR, Wiegand AN, Sayers MGL. Limb symmetry during double-leg squats and single-leg squats on land and in water in adults with long-standing unilateral anterior knee pain; a cross sectional study. *BMC Sports Science for Medicine and Rehabilitation*. 2017;9(1):20. doi: 10.1186/s13102-017-0085-x
9. *Severin AC, Burkett BJ, McKean MR, Wiegand, AN, Sayers MG. Quantifying kinematic differences between land and water during squats, split squats, and single-leg squats in a healthy population. *PLoS ONE*. 2017;12(8):e0182320. doi: 10.1371/journal.pone.0182320
10. *Severin AC, Burkett BJ, McKean MR, Sayers MG. Biomechanical aspects of aquatic therapy: a literature review on application and methodological challenges. *Journal of Fitness Research*. 2016;5(1):48-62. URL: <http://www.tandfonline.com/doi/full/10.1080/02640414.2016.1221527>
11. *Severin AC, Mellifont DB, Sayers MGL. Influence of previous groin pain on hip and pelvic instep kick kinematics. *Science and Medicine in Football*. 2017;1(1):80-85. doi: 10.1080/02640414.2016.1221527.

Under review

12. Severin AC, Tackett SA, Barnes CL, Mannen EM. Kinetic profiles and balance strategies in healthy older adult males during golf swings with different clubs. Submitted to *Journal of Science in Sport and Exercise*, March 2020

In preparation

13. Severin AC, Holloway T, Wang J, Barnes CL, Mannen EM. Differences in coordination between a Timed Up-and-Go test and a Sit-to-Stand test in older adults.
14. Mayes WH, Severin AC, Mannen EM, Edwards PK, Barnes CL, Stambough, JB, Mears SC. Management of Periprosthetic Joint Infection and Extensor Mechanism Disruption with Modular Knee Fusion: Clinical and Biomechanical Outcomes.
15. Blaauw EB, Severin AC, Beekvelt M, McGhie D, Ettema G, Baumgart JK. Comparison of biomechanics and local muscle physiology between arm-cranking and upper-body poling in participants with and without paraplegia
16. Blaauw EB, Severin AC, Mulder R, Baumgart JK. How changes to the classification system affected the number of medal events, sport events and classes during the Paralympic Games: an overview
17. Severin AC, Falck Erichsen J, Danielsen J, Baumgart JK. The effects of different seat configurations on rowing performance and biomechanics in a Paralympic rower: a case study

CONFERENCE PROCEEDINGS

*Severin AC Presenting Author

‡Mentored Student/Resident/Fellow

1. *Severin AC, McKean MR, Burkett, BB, Sayers, MGL. Effect Of Unilateral Anterior Knee Pain On 3d Net Support Moments During Split Squats. *Accepted for the American College of Sports Medicine Conference*, 2020, San Francisco, USA (cancelled due to Covid-19)
2. *Severin AC, Mellifont, DB, Sayers, MGL. Stance leg joint moments during instep kicks in football players with and without previous groin pain. *Accepted for the International Society of Biomechanics in Sports Conference*, 2020, Liverpool, UK (postponed due to Covid-19)
3. Severin AC, Mears SC, Stambough JB, Edwards PK, Mayes WH, Barnes, CL Mannen EM. Clinical Outcomes and Postural Sway in Patients With Unilateral Modular Knee Arthrodesis. *Orthopaedic Research Society Annual Conference*, Feb 2020, Atlanta, GA, USA.
4. Severin AC, Mears SC, Stambough JB, Edwards PK, Mayes WH, Barnes, CL Mannen EM. Functional, Spatiotemporal, And Kinematic Outcomes of Subjects with Modular Knee Arthrodesis. *Orthopaedic Research Society Annual Conference*, Feb 2020, Atlanta, GA, USA.

5. *Severin AC, Tackett SA, Barnes CL, Mannen EM. Transverse plane golf swing kinematics and performance in older adults with osteoarthritis of the trailing knee. *International Society of Biomechanics Conference*, July 2019, Calgary, Canada.
6. *Severin AC, Tackett SA, Barnes CL, Mannen EM. Lower body joint moments in older adults with osteoarthritis of the trailing knee during golf swings. *International Society of Biomechanics Conference*, July 2019, Calgary, Canada.
7. *Severin AC, Tackett SA, ‡Simpson HE, Barnes CL, Mannen EM. Does hand speed relate to club head speed or ball speed during a golf swing? *International Society of Biomechanics in Sports Conference*, 2019, Oxford, OH, USA. Semi-finalist for New Investigator Award.
8. *Severin AC, Mellifont, DB, Sayers, MGL. Effect of previous groin pain on sagittal plane joint moments during instep kicks. *American College of Sports Medicine Annual Conference*, 2019, Orlando, FL, USA.
9. Severin AC, Mannen EM, SC Mears. Spatiotemporal gait parameters following unilateral knee arthrodesis surgery: a case study. *South-Central American Society of Biomechanics Regional Meeting*, 2019, Dallas, TX, USA.
10. *Severin AC, Tackett SA, Mannen EM. Altered kicking kinematics in female collegiate soccer players with previous ACL reconstruction. *Mid-South Biomechanics Conference*, 2019, Memphis, TN, USA. **Winner**: Best Podium Presentation, Sports Biomechanics session (US\$ 200 prize).
11. *Severin AC, Tackett SA, Barnes CL, Mannen EM. Transverse plane biomechanics in older adults with osteoarthritis of the trailing knee. *Mid-South Biomechanics Conference*, 2019, Memphis, TN, USA.
12. ‡Gean RP, Martin DM, *Severin AC, Queen RM, ‡Barnes SG, Butler R, Barnes CL, Mannen EM. The effect of a corrective heel lift on lower body symmetry during gait with an orthopaedic walking boot. *Orthopaedic Research Society Annual Conference*, Feb 2019, Austin, TX, USA
13. *Severin AC, Mears SC, Tackett SA, Barnes CL, Mannen EM. Rotational kinematics during a golf swing in older adults with and without osteoarthritis of the knee. *Orthopaedic Research Society Annual Conference*, Feb 2019, Austin, TX, USA.
14. *Severin AC, Mellifont DB, Sayers, MGL. Influence if previous groin pain and approach angle on hip and pelvic kinematics during instep kicking. *World Conference of Groin Pain in Athletes*, Nov 2014, Doha, Qatar.
15. *Severin AC, Mellifont DB, Sayers, MGL. The Association Between Hip and Pelvic Kinematics and Previous Groin Pain During Football Instep Kicking. *1st Asia-Pacific Football and Futsal Seminar*, April 2014, Melbourne, VIC, Australia.

INVITED TALKS

1. Pain is temporary – but what about the consequences? Regional meeting for the *National Strength and Conditioning Association*, April 2019, Conway, AR, USA

2. Influence if previous groin pain and approach angle on hip and pelvic kinematics during instep kicking, Lecture series for Musculoskeletal rehabilitation at the *University of the Sunshine Coast*, December 2014, Sippy Downs, QLD, Australia
3. Prehab versus Rehab, *University of the Sunshine Coast*, USC/USBC Engagement project, May and December 2014, Sippy Downs, QLD, Australia

FUNDED PROJECTS

Ongoing

1. In vivo evaluation of medial-pivot cruciate-sacrificing TKA kinematics, loading, and mechanics, \$140,000 (\$110,000 direct), Medtronic, Inc., Co-PIs: CL Barnes, EM Mannen, KB Shelburne, PJ Rullkoetter. Co-Investigators: AC Severin. Submitted November 2018. Status: Ongoing.
2. Biomechanical Quantification of Flexion Instability after Total Knee Arthroplasty, \$65,000 (all direct), UAMS Center for Musculoskeletal Disease Research Pilot Project, NIH 1P20GM125503-01 (May 2019 to May 2020), Co-PIs: SC Mears, EM Mannen, Co-Investigators: AC Severin, CL Barnes, PK Edwards, J Stambough. Status: Ongoing.
3. An investigation into the influence of differing levels of representativeness on landing technique in sport AU\$7,135 (all direct), Queensland Academy of Sport Centre of Excellence for Applied Sport Science Research, (January 2016 to January 2017). PI: MGL Sayers, Co-Investigators: AC Severin. Status: Completed.

Unfunded Projects

4. Golf swing biomechanics after Total Joint Arthroplasty. PI: EM Mannen, Co-Investigators: CL Barnes, AC Severin, D Bumpass, S Overley. May 2018. Status: Ongoing.
5. Biomechanical adaptability in soccer players with previous lower extremity injury, Stryker/Orthopaedic Research Society Women's Research Fellowship PI: AC Severin. October 2018. Status: Ongoing
6. Treatment of total knee arthroplasty periprosthetic joint infections and extensor mechanism disruption with intercalary knee fusion, a case series, Orthopaedic Research and Education Foundation, (July 2018 to January 2019) PI: EM Mannen, Co-Investigators: AC Severin, CL Barnes, SC Mears, PK Edwards, JB Stambough. Status: Ongoing

ASSISTED ON PROJECTS

1. How do babies move? Exploring the biomechanical impact of positioning and baby gear \$75,000 (all direct), *UAMS Center for Musculoskeletal Disease Research Start-up Funding*, (July 2018 to January 2019) PI: EM Mannen. Status: Ongoing
2. A kinematic analysis of highly skilled and less skilled surfers using accelerometers and an instrumented surfboard during wave-riding, *Australian Government/University of the Sunshine Coast*, University of the Sunshine Coast, PI: J Lowrie. Status: Ongoing

3. The Effect of Task Characteristics When Assessing Landing Biomechanics: A Study of Netball Players and Females Inexperienced at Landing, *Queensland Academy of Sport/University of the Sunshine Coast*, PI: T Collings. Status: Completed
4. The Impact of the Cervical Lordosis on Postural Sway Parameters in Asymptomatic Participants, *University of the Sunshine Coast*, PI: L Daffin. Status: Completed
5. Applied Physiology of Tag Football: Understanding and Enhancing the Performance of Players and Referees, *University of the Sunshine Coast*, PI: L Hogarth. Status: Completed
6. Exploring the collaborative advantage of a university-community partnership model between the University of the Sunshine Coast and community junior sports clubs, *University of the Sunshine Coast*, PI: MGL Sayers. Status: Completed

EQUIPMENT AND SOFTWARE COMPETENCE

- Motion capture systems: Qualisys, Vicon, Xsens, IMUs, Optotrak
- Force Platform systems: Kistler, AMTI, Bertec
- EMG systems: Delsys, Noraxon
- Other systems: TrackMan, Catapult Sprint, Novel Pliance, Novel Pedar
- 3D software: Visual 3D, OpenSim, Nexus
- Programming Software: Matlab, R
- Other Software: MS Office, EndNote, Mendeley, SPSS

LANGUAGE COMPETENCIES

- **Fluent communication**: Swedish (native), English (American and English)
- Adequate communication: Norwegian, Danish
- Basic communication: French, Spanish

MENTORSHIP/STUDENT SUPERVISIONS

Medical residents

University of Arkansas for Medical Sciences

1. Sophie Hollenberg, Medical Resident, Orthopaedic Surgery, 2019.

Medical students

University of Arkansas for Medical Sciences

2. Pearson Gean, Medical Student, Orthopaedic Surgery, 2018-2019.
3. Michael Elkins, Medical Student, Orthopaedic Surgery, 2018-2019.
4. Cole Howie, Medical Student, Orthopaedic Surgery, 2019 to present.

Doctorate students

University of Arkansas for Medical Sciences

5. John Sherrill, Doctoral student, Neuroscience, 2018 to present.
6. Hannah Simpson, Doctoral student, Neuroscience, Spring 2019.

Undergraduate/Graduate Students and Research Assistants

Norwegian University of Science and Technology

7. Eline Blaauw, Research Assistant, January – August 2020.
8. Marte Fossflaten Tørring, Master student, January 2020 to present

University of Arkansas

9. Nicholas Powell, Bachelor of Biomedical Engineering, Summer 2019.
10. Lauren Buchele, Bachelor of Biomedical Engineering, Summer 2018.
11. Sally Barnes, Bachelor of Biology, Summer 2018.

University of the Sunshine Coast

12. Tammy Kuskopf, Bachelor of Clinical Exercise Science, July 2016 – October 2016.
13. Justin Noonan, Bachelor of Sport and Exercise Science, February 2016 – June 2016.
14. Nick Giugni, Bachelor of Sport and Exercise Science, February 2016 – June 2016.
15. Anika Bishop, Bachelor of Clinical Exercise Science, February 2015 – June 2015.
16. Joel McCarron, Bachelor of Sport and Exercise Science, February 2015 – June 2015.
17. Max McKenzie, Bachelor of Sport and Exercise Science, February 2015 – October 2015.
18. Dean Bishop, Bachelor of Sport and Exercise Science, July 2014 – October 2014.
19. Daniel Smith, Bachelor of Sport and Exercise Science, February 2014 – October 2015.
20. Hayden Knight, Bachelor of Sport and Exercise Science, February 2014 – October 2015.

Other universities and institutions

21. Tanner Holloway, Bachelor of Mechanical Engineering, Harding University, Summer 2019
22. Pearl Doiphode, Bachelor of Bachelor of Exercise Science, University of Central Arkansas, Summer 2019
23. Wyatt Davis, Bachelor of Biomedical Engineering, University of Texas, Summer 2018.
24. William Dean, Bachelor of Biomedical Engineering, Mississippi State University, Summer 2018.

INDUSTRY QUALIFICATIONS

- Certified Yoga Instructor, *Santosha*, QLD, Australia, 2017
- Level 2 Strength and Conditioning Coach, *Australian Strength and Conditioning Association*, QLD, Australia, 2015
- Level 2 Sports Trainer, *Sports Medicine Australia*, QLD, Australia, 2015
- Diploma of Sport and Recreation, *Sunshine Coast Institute of TAFE*, QLD, Australia, 2010
- Diploma of Fitness, *Sunshine Coast Institute of TAFE*, QLD, Australia, 2010
- Certified Pilates Instructor, *Sunshine Coast Institute of TAFE*, QLD, Australia, 2010
- Certified Boxing Instructor, *Sunshine Coast Institute of TAFE*, QLD, Australia, 2010

REFERENCES

1. **Erin Mannen, Ph.D.**

Advisor during Postdoctoral position
University of Arkansas for Medical Sciences, Little Rock,
Arkansas, USA



+1 (501) 686-5416



EMannen@uams.edu

2. **Mark Sayers, Ph.D.**

Advisor during Ph.D. and Honors
University of the Sunshine Coast, Sippy Downs, QLD,
Australia



+61 7 5459 4703



MSayers@usc.edu.au

3. **Max Stuelcken, Ph.D.**

Course coordinator for Biomechanics and Functional
Anatomy
University of the Sunshine Coast, Sippy Downs, QLD,
Australia



+61 7 5459 4629



MStuelck@usc.edu.au

4. **Prof. John Lowe**

Head, School of Health and Sport Sciences
University of the Sunshine Coast, Sippy Downs, QLD,
Australia



+61 7 5459 4752



JLowe@usc.edu.au

More references are available upon request