

Game on!

Technology meets sport

Exercise and Sport Science at Swinburne

Dr Oren Tirosh

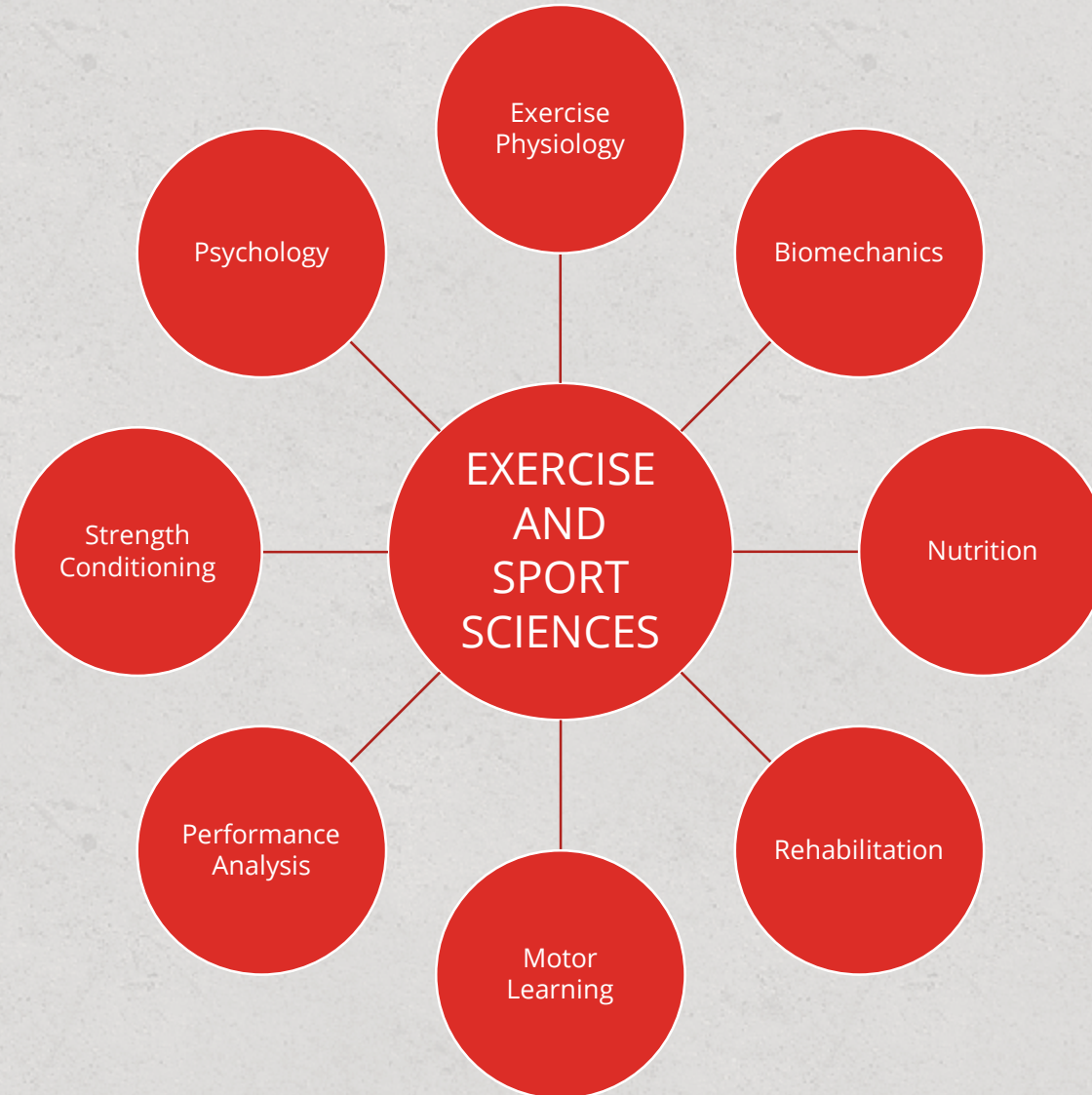
Associate Professor Rachael McDonald



Overview

- Key areas of the profession
- Industry growth
- Technology: the future of the industry
- Swinburne's new degree
- Industry partners
- Pathways
- Career opportunities

What is exercise and sport sciences?



Biomechanics: F1 drive Mark Webber



What's fuelling growth in the industry?

- Ageing population
- Increase in chronic disease
- Increase in obesity: second highest contributor to Burden of Disease after dietary risks
- Highly competitive sports industry: exercise physiologists give athletes a competitive edge
- Physical, mental and social wellbeing of individuals/community

Technology is changing the profession

- Analytics
- Big data
- GPS
- Radio frequency identification
- Smart Ball



Shaping Swinburne's new degree

- Focus on technology, innovation, digital health and engineering
- Embedded in interdisciplinary practice
- Technology will be embedded into all units
 - Current technologies – ubiquitous technologies, apps, wearable sensors, big data and analytics
 - New and developing technologies
- New modern facilities and labs
 - Current re-fit happening now!
- 140 hours of placement

Key facts

- Coming in 2018
- 3 years full-time
- Hawthorn campus



Who we work with?

- Cabrini
- Royal Children's Hospital
- Access Health Community
- Local schools and clubs
- Wheelchair and paralympic sports
- The Centre for Developmental Disability Health at Monash Health
- Developing partners throughout 2017...

Further study

- Postgraduate studies in:
 - occupational therapy
 - physiotherapy
 - dietetics
 - speech therapy

Accreditation

- Currently undergoing accreditation with Exercise and Sports Science Australia (ESSA)
- Graduates will be eligible to obtain:
 - ESSA accreditation as an Exercise Scientist (AES)
 - Entry into an exercise physiology degree

Career opportunities

- Sports scientists
- Coaching/development officers
- Strength and conditioning specialists
- Medical/clinical (recognised by Medicare)
- Corporate health (wellness programs)
- Public health
- Gyms
- Diagnostic investigation
- Private practice

The future of the industry: Simon Sostaric



