

# Taren Sanders

ACADEMIC RESEARCHER & DATA SCIENTIST

Institute for Positive Psychology and Education, Australian Catholic University

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## Education

### Doctor of Philosophy

WESTERN SYDNEY UNIVERSITY

2016

- Thesis: Investigating associations between neighbourhood green space and weight status: A longitudinal study of Australian children aged 4 to 13 years old.

### Master of Data Science (Applied)

ADELAIDE UNIVERSITY

2022

### Bachelor of Health Science (Honours; First Class)

WESTERN SYDNEY UNIVERSITY

2012

- Thesis: Measuring adolescent boys' physical activity: Bout length and the influence of accelerometer epoch length.

### Bachelor of Health Science (PDHPE)

WESTERN SYDNEY UNIVERSITY

2011

## Employment History

### Program Leader

INSTITUTE FOR POSITIVE PSYCHOLOGY AND EDUCATION, AUSTRALIAN CATHOLIC UNIVERSITY

2021–Current

- Drive the strategic direction and focus of the research program
- Support academic and professional staff, as well as higher-degree students, within the program
- Provide input as a member of the Institute Executive Management Committee on Institute priorities, and advocate for my research program
- Developed and implemented new project management processes, including making agile management strategies standard practice.

### Deputy Program Leader

INSTITUTE FOR POSITIVE PSYCHOLOGY AND EDUCATION, AUSTRALIAN CATHOLIC UNIVERSITY

2017–2021

- Supported Program Leader to manage the research program

### Research Fellow

INSTITUTE FOR POSITIVE PSYCHOLOGY AND EDUCATION, AUSTRALIAN CATHOLIC UNIVERSITY

2016–Current

- Conduct original, high-impact, and translational research in the areas of health, education, and psychology.
- Oversee the development, evaluation, and management of multiple large-scale school-based research projects (e.g., iPLAY; 180 schools).
- Conduct analyses of primary and secondary data, and provided statistical support to colleagues including statistics workshops.
- Work with industry partners (NSW Department of Education, NSW Health, Sport Australia) to provide project updates and seek input.
- Author academic and non-academic outputs, including journal articles, grant applications, stakeholder reports, and data visualisations.
- Mentor doctoral and honours students, including reviewing and evaluating their analyses and writing.

## Research Summary

Publications	Citations	h-Index	Mean CNCI	Mean Impact Factor	Funding
40	1654	21	1.8	7.9	> \$1 million

## Technical Skills

### Programming Languages

R, PYTHON, STATA, JULIA

### Software Development

R PACKAGES (INCLUDING CRAN SUBMISSION), PYTHON PACKAGES

### Statistical Methods

MACHINE LEARNING, MULTILEVEL MODELLING, INTERVENTION EVALUATION, META-ANALYSES

### Research Methods

STUDY DESIGN, INTERVENTION DEVELOPMENT, ETHICS AND RECRUITMENT

# Publications

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## PEER-REVIEWED PUBLICATIONS

Crawford, J., Allen, K.-A., **Sanders, T.**, Baumeister, R., Parker, P., Saunders, C., & Tice, D. (2023). Sense of belonging in higher education students: An Australian longitudinal study from 2013 to 2019. *Studies in Higher Education*, 1–15. <https://doi.org/10.1080/03075079.2023.2238006> | JIF: 4.2

Wilhite, K., Del Pozo Cruz, B., Noetel, M., Lonsdale, C., Ridgers, N. D., Maher, C., Bradshaw, E., & **Sanders, T.** (2023). Socioeconomic position as a predictor of youth's movement trajectory profiles between ages 10 and 14 years. *International Journal of Behavioral Nutrition and Physical Activity*, 20(1), 88. <https://doi.org/10.1186/s12966-023-01491-5> | JIF: 8.7

Koorts, H., Timperio, A., Lonsdale, C., Ridgers, N. D., Lubans, D. R., Della Gatta, J., Bauman, A., Telford, A., Barnett, L. M., Lamb, K. E., Lander, N., Lai, S. K., **Sanders, T.**, Arundell, L., Brown, H., Wilhite, K., & Salmon, J. (2023). Scaling up a school-based intervention to increase physical activity and reduce sedentary behaviour in children: Protocol of the TransformUs hybrid effectiveness-implementation trial. *BMJ Open*. Accepted: 2023-10-06

**Sanders, T.**, Noetel, M., Parker, P., Del Pozo Cruz, B., Biddle, S., Ronto, R., Hulteen, R., Parker, R., Thomas, G., De Cocker, K., Salmon, J., Hesketh, K., Weeks, N., Arnott, H., Devine, E., Vasconcellos, R. P., Pagano, R., Sherson, J., Conigrave, J., & Lonsdale, C. (2023). An umbrella review of the benefits and risks associated with youths' interactions with electronic screens. *Nature Human Behaviour*. | JIF: 29.9

Downing, K. L., del Pozo Cruz, B., **Sanders, T.**, Zheng, M., Hnatiuk, J. A., Salmon, J., & Hesketh, K. D. (2022). Outdoor time, screen time and sleep reported across early childhood: Concurrent trajectories and maternal predictors. *International Journal of Behavioral Nutrition and Physical Activity*, 19(1), 160. <https://doi.org/10.1186/s12966-022-01386-x> | Citations: 2; JIF: 8.7; CNCI: 1

Lubans, D. R., **Sanders, T.**, Noetel, M., Parker, P., McKay, H., Morgan, P., Salmon, J., Kirwan, M., Bennie, A., Peralta, L., Cinelli, R., Moodie, M., Hartwig, T., Boyer, J., Kennedy, S. G., Plotnikoff, R. C., Hansen, V., Vasconcellos, D., Lee, J., ... Lonsdale, C. (2022). Scale-up of the Internet-based Professional Learning to help teachers promote Activity in Youth (iPLAY) intervention: A hybrid type 3 implementation-effectiveness trial. *International Journal of Behavioral Nutrition and Physical Activity*, 19(1), 141. <https://doi.org/10.1186/s12966-022-01371-4> | Citations: 2; JIF: 8.7; CNCI: 1

Wilhite, K., Booker, B., Huang, B.-H., Antczak, D., Corbett, L., Parker, P., Noetel, M., Rissel, C., Lonsdale, C., del Pozo Cruz, B., & **Sanders, T.** (2022). Combinations of Physical Activity, Sedentary Behavior, and Sleep Duration and Their Associations With Physical, Psychological, and Educational Outcomes in Children and Adolescents: A Systematic Review. *American Journal of Epidemiology*, kwac212. <https://doi.org/10.1093/aje/kwac212> | Citations: 3; JIF: 5; CNCI: 1

Parker, P., **Sanders, T.**, Anders, J., Shure, N., Jerrim, J., Noetel, M., Parker, R., Ciarrochi, J., & Marsh, H. (2022). School socioeconomic status context and social adjustment in children. *Developmental Psychology*. <https://doi.org/10.1037/dev0001463> | JIF: 4

Guo, J., Basarkod, G., Perales, F., Parker, P. D., Marsh, H. W., Donald, J., Dicke, T., Sahdra, B. K., Ciarrochi, J., Hu, X., Lonsdale, C., **Sanders, T.**, & del Pozo Cruz, B. (2022). The Equality Paradox: Gender Equality Intensifies Male Advantages in Adolescent Subjective Well-Being. *Personality and Social Psychology Bulletin*, 014616722211256. <https://doi.org/10.1177/01461672221125619> | Citations: 3; JIF: 4; CNCI: 2

Antczak, D., Lonsdale, C., del Pozo Cruz, B., Parker, P., & **Sanders, T.** (2021). Reliability of GENEActiv accelerometers to estimate sleep, physical activity, and sedentary time in children. *International Journal of Behavioral Nutrition and Physical Activity*, 18(1), 73. <https://doi.org/10.1186/s12966-021-01143-6> | Citations: 6; JIF: 8.7; CNCI: 1.1

Noetel, M., Griffith, S., Delaney, O., Harris, N. R., **Sanders, T.**, Parker, P., del Pozo Cruz, B., & Lonsdale, C. (2021). Multimedia Design for Learning: An Overview of Reviews With Meta-Analysis. *Review of Educational Research*. <https://doi.org/10.3102/00346543211052329> | Citations: 7; JIF: 11.2; CNCI: 1

Parker, P. D., **Sanders, T.**, Anders, J., Parker, R. B., & Duineveld, J. J. (2021). Maternal Judgments of Child Numeracy and Reading Ability Predict Gains in Academic Achievement and Interest. *Child Development*, 92(5), 2020–2034. <https://doi.org/10.1111/cdev.13573> | JIF: 4.6

**Note:** In health and medicine the last author is considered the senior author.

Citations from Web of Science; JIF = Journal Impact Factor; CNCI = Category Normalised Citation Index.

- Lee, J., **Sanders, T.**, Antczak, D., Parker, R., Noetel, M., Parker, P., & Lonsdale, C. (2021). Influences on User Engagement in Online Professional Learning: A Narrative Synthesis and Meta-Analysis. *Review of Educational Research*, 91(4), 518–576. <https://doi.org/10.3102/0034654321997918> | Citations: 9; JIF: 11.2; CNCI: 3
- Hartwig, T. B., **Sanders, T.**, Vasconcellos, D., Noetel, M., Parker, P. D., Lubans, D. R., Andrade, S., Ávila-García, M., Bartholomew, J., Belton, S., Brooks, N. E., Bugge, A., Cavero-Redondo, I., Christiansen, L. B., Cohen, K., Coppinger, T., Dyrstad, S., Errisuriz, V., Fairclough, S., ... del Pozo Cruz, B. (2021). School-based interventions modestly increase physical activity and cardiorespiratory fitness but are least effective for youth who need them most: An individual participant pooled analysis of 20 controlled trials. *British Journal of Sports Medicine*, 55(13), 721–729. <https://doi.org/10.1136/bjsports-2020-102740> | Citations: 25; JIF: 18.4; CNCI: 3.3
- Kennedy, S. G., **Sanders, T.**, Estabrooks, P. A., Smith, J. J., Lonsdale, C., Foster, C., & Lubans, D. R. (2021). Implementation at-scale of school-based physical activity interventions: A systematic review utilizing the RE-AIM framework. *Obesity Reviews*, 22(7). <https://doi.org/10.1111/obr.13184> | Citations: 12; JIF: 8.9; CNCI: 1
- Lonsdale, C., **Sanders, T.**, Parker, P., Noetel, M., Hartwig, T., Vasconcellos, D., Lee, J., Antczak, D., Kirwan, M., Morgan, P., Salmon, J., Moodie, M., McKay, H., Bennie, A., Plotnikoff, R. C., Cinelli, R., Greene, D., Peralta, L., Cliff, D., ... Lubans, D. R. (2021). Effect of a Scalable School-Based Intervention on Cardiorespiratory Fitness in Children: A Cluster Randomized Clinical Trial. *JAMA Pediatrics*, 175(7), 680. <https://doi.org/10.1001/jamapediatrics.2021.0417> | Citations: 15; JIF: 26.1; CNCI: 3.9
- Parker, P., **Sanders, T.**, Anders, J., Sahdra, B., Shure, N., Jerrim, J., & Cull, N. (2021). Does school average achievement explain the effect of socioeconomic status on math and reading interest? A test of the Information Distortion Model. *Learning and Instruction*, 73, 101432. <https://doi.org/10.1016/j.learninstruc.2020.101432> | Citations: 1; JIF: 6.2; CNCI: 0.3
- Antczak, D., **Sanders, T.**, del Pozo Cruz, B., Parker, P., & Lonsdale, C. (2021). Day-to-day and longer-term longitudinal associations between physical activity, sedentary behavior, and sleep in children. *Sleep*, 44(4), zsa219. <https://doi.org/10.1093/sleep/zsa219> | Citations: 3; JIF: 5.6; CNCI: 0.5
- Noetel, M., Griffith, S., Delaney, O., **Sanders, T.**, Parker, P., del Pozo Cruz, B., & Lonsdale, C. (2021). Video Improves Learning in Higher Education: A Systematic Review. *Review of Educational Research*, 91(2), 204–236. <https://doi.org/10.3102/0034654321990713> | Citations: 35; JIF: 11.2; CNCI: 5.1
- del Pozo Cruz, B., Hartwig, T. B., **Sanders, T.**, Noetel, M., Parker, P., Antczak, D., Lee, J., Lubans, D. R., Bauman, A., Cerin, E., & Lonsdale, C. (2021). The effects of the Australian bushfires on physical activity in children. *Environment International*, 146, 106214. <https://doi.org/10.1016/j.envint.2020.106214> | Citations: 8; JIF: 11.8; CNCI: 0.9
- Vella, S. A., Swann, C., Batterham, M., Boydell, K. M., Eckermann, S., Ferguson, H., Fogarty, A., Hurley, D., Liddle, S. K., Lonsdale, C., Miller, A., Noetel, M., Okely, A. D., **Sanders, T.**, Schweickle, M. J., Telenta, J., & Deane, F. P. (2021). An Intervention for Mental Health Literacy and Resilience in Organized Sports. *Medicine & Science in Sports & Exercise*, 53(1), 139–149. <https://doi.org/10.1249/MSS.0000000000002433> | Citations: 35; JIF: 4.1; CNCI: 8.8
- Ronto, R., Rathi, N., Worsley, A., **Sanders, T.**, Lonsdale, C., & Wolfenden, L. (2020). Enablers and barriers to implementation of and compliance with school-based healthy food and beverage policies: A systematic literature review and meta-synthesis. *Public Health Nutrition*, 23(15), 2840–2855. <https://doi.org/10.1017/S1368980019004865> | Citations: 28; JIF: 3.2; CNCI: 1.2
- Alfonso-Rosa, R. M., García-Hermoso, A., **Sanders, T.**, Parker, P., Oriol-Granado, X., Arnott, H., & del Pozo Cruz, B. (2020). Lifestyle behaviors predict adolescents bullying victimization in low and middle-income countries. *Journal of Affective Disorders*, 273, 364–374. <https://doi.org/10.1016/j.jad.2020.04.065> | Citations: 9; JIF: 6.6; CNCI: 0.8
- Antczak, D., Lonsdale, C., Lee, J., Hilland, T., Duncan, M. J., del Pozo Cruz, B., Hulteen, R. M., Parker, P. D., & **Sanders, T.** (2020). Physical activity and sleep are inconsistently related in healthy children: A systematic review and meta-analysis. *Sleep Medicine Reviews*, 51, 101278. <https://doi.org/10.1016/j.smrv.2020.101278> | Citations: 26; JIF: 10.5; CNCI: 1.4
- del Pozo-Cruz, B., Perales, F., Parker, P., Lonsdale, C., Noetel, M., Hesketh, K. D., & **Sanders, T.** (2019). Joint physical-activity/screen-time trajectories during early childhood: Socio-demographic predictors and consequences on health-

related quality-of-life and socio-emotional outcomes. *International Journal of Behavioral Nutrition and Physical Activity*, 16(1), 55. <https://doi.org/10.1186/s12966-019-0816-3> | Citations: 25; JIF: 8.7; CNCI: 1.8

**Sanders, T.**, Parker, P. D., del Pozo-Cruz, B., Noetel, M., & Lonsdale, C. (2019). Type of screen time moderates effects on outcomes in 4013 children: Evidence from the Longitudinal Study of Australian Children. *International Journal of Behavioral Nutrition and Physical Activity*, 16(1), 117. <https://doi.org/10.1186/s12966-019-0881-7> | Citations: 54; JIF: 8.7; CNCI: 3.9

Vella, S. A., Swann, C., Boydell, K. M., Eckermann, S., Fogarty, A., Hurley, D., Liddle, S. K., Lonsdale, C., **Sanders, T.**, Schweickle, M. J., Telenta, J., & Deane, F. P. (2019). Sports-based mental health promotion in Australia: Formative evaluation. *Psychology of Sport and Exercise*, 45, 101560. <https://doi.org/10.1016/j.psychsport.2019.101560> | Citations: 11; JIF: 3.4; CNCI: 1

Hartwig, T. B., del Pozo-Cruz, B., White, R. L., **Sanders, T.**, Kirwan, M., Parker, P. D., Vasconcellos, D., Lee, J., Owen, K. B., Antczak, D., Lubans, D. R., & Lonsdale, C. (2019). A monitoring system to provide feedback on student physical activity during physical education lessons. *Scandinavian Journal of Medicine & Science in Sports*, 29(9), 1305–1312. <https://doi.org/10.1111/sms.13438> | Citations: 12; JIF: 4.1; CNCI: 1.2

Costigan, S. A., Lubans, D. R., Lonsdale, C., **Sanders, T.**, & del Pozo Cruz, B. (2019). Associations between physical activity intensity and well-being in adolescents. *Preventive Medicine*, 125, 55–61. <https://doi.org/10.1016/j.ypmed.2019.05.009> | Citations: 41; JIF: 5.1; CNCI: 3.9

Vella, S. A., Swann, C., Batterham, M., Boydell, K. M., Eckermann, S., Fogarty, A., Hurley, D., Liddle, S. K., Lonsdale, C., Miller, A., Noetel, M., Okely, A. D., **Sanders, T.**, Telenta, J., & Deane, F. P. (2018). Ahead of the game protocol: A multi-component, community sport-based program targeting prevention, promotion and early intervention for mental health among adolescent males. *BMC Public Health*, 18(1), 390. <https://doi.org/10.1186/s12889-018-5319-7> | Citations: 29; JIF: 4.5; CNCI: 2.2

Stanaway, J. D., Afshin, A., Gakidou, E., Lim, S. S., Abate, D., Abate, K. H., Abbafati, C., Abbasi, N., Abbastabar, H., Abd-Allah, F., Abdela, J., Abdelalim, A., Abdollahpour, I., Abdulkader, R. S., Abebe, M., Abebe, Z., Abera, S. F., Abil, O. Z., Abraha, H. N., ... Murray, C. J. L. (2018). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990: A systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 1923–1994. [https://doi.org/10.1016/S0140-6736\(18\)32225-6](https://doi.org/10.1016/S0140-6736(18)32225-6) | Citations: 29; JIF: 4.5; CNCI: 2.2

Nooijen, C. F. J., Del Pozo-Cruz, B., Nyberg, G., **Sanders, T.**, Galanti, M. R., & Forsell, Y. (2018). Are changes in occupational physical activity level compensated by changes in exercise behavior? *European Journal of Public Health*, 28(5), 940–943. <https://doi.org/10.1093/eurpub/cky007> | Citations: 16; JIF: 4.4; CNCI: 1.2

MacMillan, F., George, E., Feng, X., Merom, D., Bennie, A., Cook, A., **Sanders, T.**, Dwyer, G., Pang, B., Guagliano, J., Kolt, G., & Astell-Burt, T. (2018). Do Natural Experiments of Changes in Neighborhood Built Environment Impact Physical Activity and Diet? A Systematic Review. *International Journal of Environmental Research and Public Health*, 15(2), 217. <https://doi.org/10.3390/ijerph15020217> | Citations: 42; JIF: 4.6; CNCI: 0.9

Lonsdale, C., **Sanders, T.**, Cohen, K. E., Parker, P., Noetel, M., Hartwig, T., Vasconcellos, D., Kirwan, M., Morgan, P., Salmon, J., Moodie, M., McKay, H., Bennie, A., Plotnikoff, R., Cinelli, R. L., Greene, D., Peralta, L. R., Cliff, D. P., Kolt, G. S., ... Lubans, D. R. (2016). Scaling-up an efficacious school-based physical activity intervention: Study protocol for the “Internet-based Professional Learning to help teachers support Activity in Youth” (iPLAY) cluster randomized controlled trial and scale-up implementation evaluation. *BMC Public Health*, 16(1), 873. <https://doi.org/10.1186/s12889-016-3243-2> | Citations: 19; JIF: 4.5; CNCI: 1.1

**Sanders, T.**, Feng, X., Fahey, P. P., Lonsdale, C., & Astell-Burt, T. (2015). The influence of neighbourhood green space on children’s physical activity and screen time: Findings from the longitudinal study of Australian children. *International Journal of Behavioral Nutrition and Physical Activity*, 12(1), 126. <https://doi.org/10.1186/s12966-015-0288-z> | Citations: 57; JIF: 8.7; CNCI: 2.4

**Sanders, T.**, Feng, X., Fahey, P. P., Lonsdale, C., & Astell-Burt, T. (2015). Greener neighbourhoods, slimmer children? Evidence from 4423 participants aged 6 to 13 years in the Longitudinal Study of Australian children. *International Journal of Obesity*, 39(8), 1224–1229. <https://doi.org/10.1038/ijo.2015.69> | Citations: 56; JIF: 4.9; CNCI: 2

**Sanders, T.**, Feng, X., Fahey, P. P., Lonsdale, C., & Astell-Burt, T. (2015). Green Space and Child Weight Status: Does Outcome Measurement Matter? Evidence from an Australian Longitudinal Study. *Journal of Obesity*, 2015, 1–8.

**Sanders, T.**, Cliff, D. P., & Lonsdale, C. (2014). Measuring Adolescent Boys' Physical Activity: Bout Length and the Influence of Accelerometer Epoch Length. *PLoS ONE*, 9(3), e92040. <https://doi.org/10.1371/journal.pone.0092040> | Citations: 43; JIF: 3.7; CNCI: 1.9

Lonsdale, C., Rosenkranz, R. R., **Sanders, T.**, Peralta, L. R., Bennie, A., Jackson, B., Taylor, I. M., & Lubans, D. R. (2013). A cluster randomized controlled trial of strategies to increase adolescents' physical activity and motivation in physical education: Results of the Motivating Active Learning in Physical Education (MALP) trial. *Preventive Medicine*, 57(5), 696–702. <https://doi.org/10.1016/j.ypmed.2013.09.003> | Citations: 59; JIF: 5.1; CNCI: 2.6

Rosenkranz, R. R., Lubans, D. R., Peralta, L. R., Bennie, A., **Sanders, T.**, & Lonsdale, C. (2012). A cluster-randomized controlled trial of strategies to increase adolescents' physical activity and motivation during physical education lessons: The Motivating Active Learning in Physical Education (MALP) trial. *BMC Public Health*, 12(1), 834. <https://doi.org/10.1186/1471-2458-12-834> | Citations: 26; JIF: 4.5; CNCI: 1

## BOOK CHAPTERS

Parker, P., Guo, J., & **Sanders, T.** (2019). Socioeconomic Inequality and Student Outcomes in Australia. In L. Volante, S. V. Schnepf, J. Jerrim, & D. A. Klinger (Eds.), *Socioeconomic Inequality and Student Outcomes: Cross-National Trends, Policies, and Practices* (pp. 189–204). Springer Singapore. [https://doi.org/10.1007/978-981-13-9863-6\\_11](https://doi.org/10.1007/978-981-13-9863-6_11)

## Students

### DOCTOR OF PHILOSOPHY

2016–2020 Jane Lee	Assistant Supervisor
2016–2021 Devan Antcazk	Assistant Supervisor
2019–2022 Katrina Wilhite	Principal Supervisor
2020– Bridget Booker	Principal Supervisor
2020– Roberta Vasconcellos	Co-supervisor
2021– Ella Tremaine	Principal Supervisor
2022– Anum Urooj	Principal Supervisor

### HONOURS

2019–2019 Bridget Booker	Principal Supervisor
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## Research Funding

<b>Australian Research Council</b>	\$658,544
CHIEF INVESTIGATOR — DISCOVERY PROJECT DP200101912	2020–2023
SQUARE EYES OR ALL LIES? UNDERSTANDING CHILDREN'S EXPOSURE TO SCREENS.	
<b>Australian Catholic University</b>	\$21,597
CHIEF INVESTIGATOR (LEAD) — TRANSLATE4IMPACT	
RAISING AWARENESS OF THE RISKS AND BENEFITS OF CHILDREN'S INTERACTIONS WITH ELECTRONIC SCREENS TO PARENTS AND POLICYMAKERS	2023–2023
<b>Catholic Schools New South Wales</b>	\$76,333
CHIEF INVESTIGATOR	2021–2022
AUSTRALIAN PRINCIPAL HEALTH AND WELLBEING	
<b>NSW Department of Education</b>	\$20,000
CHIEF INVESTIGATOR	2019–2020
IPLAY FOR INCLUSION	
<b>Sport Australia</b>	\$248,802
CHIEF INVESTIGATOR — 'MOVE IT AUS' PARTICIPATION GRANT PROGRAM	2019–2020
IPLAY FOR INCLUSION	
<b>Australian Sports Commission</b>	\$54,546
CHIEF INVESTIGATOR	2019–2019
IPLAY SPORTING SCHOOLS PILOT PROJECT	

## Australian Catholic University

\$7,865

CHIEF INVESTIGATOR (LEAD) — FACULTY OF HEALTH SCIENCES RESEARCH PROJECT GRANT SCHEME

INVESTIGATING THE CORRELATES OF CHILDREN'S SCREEN TIME

2018–2018

## NSW Department of Education

\$11,500

CHIEF INVESTIGATOR

IPLAY NUTRITION PROOF-OF-CONCEPT MODULE

2018–2018

## Awards

- 2013 **Australian Postgraduate Award** Western Sydney University. \$105,000AUD plus tuition fees.
- 2017 **ACU Discipline Winner and National Finalist** 5 Minute Research Pitch.
- 2021 **Excellence and Innovation in Public Health Education and Research** Council of Academic Public Health Institutions Australasia. Team Award (iPLAY Project)
- 2021 **Vice-Chancellor's Staff Excellence Award: Excellence in Research and Research Partnership** Australian Catholic University. Team Award (iPLAY Project)
- 2022 **Vice-Chancellor's Staff Excellence Award: Excellence in Research and Research Partnership** Australian Catholic University. Team Award (Principals Project)

## Invited Talks

- 2018 **Australian Council for Health, Physical Education and Recreation.** Keynote Lecture: Evidence-Based School Physical Activity Programs. K-6 Physical Activity and Health Conference
- 2021 **ResBaz Sydney.** Keystory: How We Do Reproducible Research.

## Conference Presentations

(Presenting author presentations listed only)

Lonsdale, C., Lubans, D., Noetel, M., & **Sanders, T.** (2019). Scaling-up an Efficacious Comprehensive School-based Physical Activity Intervention: Development, Evaluation and Dissemination of the iPLAY Program. *Sports Medicine Australia*.

**Sanders, T.**, Parker, P. D., Del Pozo-Cruz, B., Noetel, M., & Lonsdale, C. (2019). Content of Screen Time Moderates the Effects of Exposure on Physical Health, Psychological and Educational Outcomes in a Longitudinal Study of 4,013 Children. *International Society for Behavioral Nutrition and Physical Activity*.

**Sanders, T.**, Lonsdale, C., & Del Pozo-Cruz, B. (2018). Sleep quality mediates the relationship between screen time and depression in adults: A cross-sectional study of the NHANES 2005-2006 cycle. *International Society for Behavioral Nutrition and Physical Activity*.

**Sanders, T.**, Feng, X., Fahey, P. P., Lonsdale, C., & Astell-Burt, T. (2017). Neighbourhood Green Space and Children's Enjoyment of Physical Activity: Evidence from the Longitudinal Study of Australian Children. *SELF Conference*.

**Sanders, T.**, Feng, X., Fahey, P. P., Lonsdale, C., & Astell-Burt, T. (2016). Does Physical Activity Explain the Relationship Between Green Space and Children's BMI? Mediation Analyses from the Longitudinal Study of Australian Children. *International Society for Physical Activity and Health*.

**Sanders, T.**, Feng, X., Fahey, P. P., Lonsdale, C., & Astell-Burt, T. (2015). The Longitudinal Influence of Neighbourhood Green Space on Children's Physical Activity, Screen Time, and Body Mass Index. *International Society for Behavioral Nutrition and Physical Activity*.

## Selected Software

For a complete list of the software I have developed or contributed to, please see my Github page.

### R PACKAGES

#### cloudstoR

[CRAN Link](#)

PROVIDES PROGRAMMATIC ACCESS TO AARNET'S CLOUDSTOR CLOUD STORAGE SERVICE

- Author and Maintainer.
- Available on CRAN - approx 400 downloads per month.

## sleepIPD

[GitHub Link](#)

A STANDARDISED METHOD FOR REPROCESSING ACCELEROMETRY DATA FOR A VERY LARGE SLEEP AND PHYSICAL ACTIVITY

POOLED ANALYSIS

- Author and Maintainer.
- Used by teams all over the world to reprocess data exactly as required for our study.

## gt3x2csv

[GitHub Link](#)

CONVERT ACTIGRAPH GT3X FILES TO CSV, IN A FRACTION OF THE TIME

- Author and Maintainer.
- Approximately 7x faster than using the proprietary software.

## PYTHON PACKAGES

### faceblurring

[GitHub Link](#)

AN IMPLEMENTATION OF A FACE DETECTION MODEL USED TO PROTECT PRIVACY IN AN ARC PROJECT

- Author and Maintainer.
- Working version available, still in development.

## Service

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### University Service

INSTITUTIONAL SERVICE

- Data Analytics Council (as delegate for the Provost)
- Faculty of Health Sciences Research Methods Consultancy
- IPPE Theme Leader: Knowledge Creation
- IPPE Executive Management Committee

### Guest Journal Reviewer

PROVIDING PEER-REVIEW SUPPORT FOR JOURNALS

- BMC Public Health
- BMJ Open
- Child Development
- Computers in Human Behavior
- Cyberpsychology, Behavior, and Social Networking
- Frontiers in Psychology
- Health and Place
- Health Education Journal
- International Journal of Behavioral Nutrition and Physical Activity
- International Journal of Environmental Research and Public Health
- Journal of Adolescent Health
- Journal of Applied Sport Psychology
- Journal of Science and Medicine in Sport
- Journal of Sport Sciences
- Learning and Individual Differences
- Pediatric Obesity
- Pediatrics
- PLoS One
- Prevention Science
- Psychology of Sport & Exercise
- Science of The Total Environment
- Scientific Reviews

### Invited Grant Reviewer

PROVIDING PEER-REVIEW SUPPORT FOR GRANT AGENCIES

- Australian Research Council (ARC)
- National Health and Medical Research Council (NHMRC)
- The Netherlands Organisation for Scientific Research (NWO)

## Self-Development

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- 2012 **Multilevel Modeling Master Class.** University of Western Sydney
- 2013 **Social Epidemiology Short Course.** University of Otago, New Zealand
- 2016 **Physical Activity and Public Health Postdoctoral Research Course.** University of South Carolina, USA
- 2016 **Clinical Trials Master Class.** NHMRC Trials Center, University of Sydney