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ISMPB February 2023, Issue 21

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Newsletter

February, 2023

SOCIAL MEDIA

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THIS ISSUE OF THE ISMPB NEWSLETTER WAS A COMBINED EFFORT OF:

- | | |
|-------------------|-----------------------------|
| * Bronwyn Clark | * Alexandra Clarke-Cornwell |
| * Benjamin Maylor | * Sharon Zwack |
| * Aidan Buffey | * Martina Mancini |

Message from the President

Dr. Bronwyn Clark

Dear ISMPB members and colleagues,

I hope that this first newsletter of 2023 finds you all well and feeling positive about the year ahead. We start this year with a number of news items. We are very happy to announce the next Editor-in-Chief for JMPB will be Charlotte Edwardson. For those of you who don't know Charlotte, she is an Associate Professor at the University of Leicester in the UK who has led many excellent initiatives to advance the field of the measurement of physical behaviour. An interesting fact about Charlotte is that she authored the first ever paper published in JMPB, so her appointment as our next Editor in Chief is quite serendipitous. Charlotte will start the position mid-year and Philippa has agreed to stay on and share the role until the end of 2023 to allow for a period of handover. In other JMPB news, many of you would have seen on social media that it is now indexed on Scopus. This is an excellent step in the growth of our journal, and we thank Philippa, the editorial team and our colleagues from UK for their hard work to achieve this.

In other society news, we are in the process of setting up a new committee for our society that will oversee external relations with industry, foundation and other society partners. This committee will guide and facilitate the connections with external partners that lead to important resources for our members including both financial support and intellectual resourcing. Look out for the call for committee membership,



which would be an excellent way to become involved with your society.

There are plans afoot for member development activities. Our Activities Committee leads, Dinesh John and Jorunn Helbostad are leading the way for a Fall (northern hemisphere) activity to be held online for easy access for members. We are all looking forward to ICAMPAM 2024 in Rennes. Our Society chairs are Asa Tornberg and Tom Stewart and our local host is Alexis Lefaucheur. They are already working hard to set up a great experience for us all.

One final reminder is that membership fees are now due – don't forget to renew so you can take advantage of our activities over the coming year. Some of you will notice that there are extra questions asked as part of the membership renewal. This is so we can identify the characteristics of our membership and better plan activities for our members and identify needs for society growth – I'm sure many of you are aware of the necessity to have a good evidence base.

Bron Clark

Member Profile

Dr. Alexandra Clarke-Cornwell

Everybody has a unique career path to their current destination. Can you share some of your stops along the way?

I was always envious of people at school who knew exactly what they wanted to be when they grew up. I never had a vocation in mind and read mathematics at university as this was my favourite subject. After university, I still had no idea what I wanted to do so took a year out to travel. After my year out, I still had no idea what I wanted to do so went back to university to complete my Masters in Statistics. After my Masters, I still had no idea what I wanted to do: one of the first jobs I saw advertised was for a Research Assistant position at The University of Manchester. I was offered the job and stayed there for six years in a world away from physical behaviour, working on the epidemiology of rheumatological diseases, but grateful for my training in epidemiology.

I moved to the University of Salford in 2008 as a Research Fellow working on a project linked to the NHS Health Checks (UK), and teaching on the Masters in Public Health. At the end of this project, Professor Lindsey Dugdill told me I should really look at applying for a PhD, but to do something that I was really interested in. Lindsey was an expert in physical activity, and we talked a lot (over a gin) about how I could use my epidemiology and statistics background to look at large datasets that had collected data on physical activity and sedentary behaviour. When I look back, a serendipitous moment then occurred – Professor Malcolm Granat moved to the University of Salford and became involved with my PhD ideas. My PhD was then reshaped to include a measurement component, and my PhD on Sedentary behaviour, work, and health-related outcomes: the application of empirically derived accelerometer cut-points to data from the Health Survey for England was eventually completed in 2019. It took seven years, during which I was working full-time as a Lecturer in Public Health, got married, had a baby, took on parental caring responsibilities – so, my



academic career up to that point was a bit non-traditional and chaotic at times, but worth every second to learn about my own strengths and weaknesses on the way. Sadly, Lindsey never got to see me graduate, but I continue to be influenced by her passion to support students and to always question the accepted.

I remain working at the University of Salford and was promoted to Associated Professor in Public Health Epidemiology last year. I am co-programme leader on the Masters in Public Health and my current research interests focus on the associations between sedentary behaviour and health-related outcomes in the workplace.

Tell us about a current project you are working on.

The main outcomes paper from 'The effectiveness of the SMaRT Work & Life intervention for reducing sitting time in office workers', led by Dr Charlotte Edwardson (University of Leicester), was published in the [British Medical Journal](#) last year. This was an NIHR-funded randomised controlled trial, which aimed to determine the long-term effectiveness of a multi-component behaviour change intervention (when provided with and without a height-adjustable desk) for reducing daily sitting time in office workers (in Leicester, Greater Manchester, and Liverpool), when compared to no intervention. We are currently working on the process evaluation paper and follow-up papers from this study.

Member Profile

(Continued)

Dr. Alexandra Clarke-Cornwell

What do you think are the most important research advancements in this area?

I think that the work that ProPASS is undertaking is significant in developing methods for processing and harmonising data on physical behaviour, posture, sleep, and health-related outcomes. Having open access to data and data processes is crucial, so that we are able to consider the multifaceted nature of physical activity, sedentary behaviour, sleep and health-related outcomes – this is especially relevant for informing public health policy and guidance on physical behaviour.

Have you participated in any ISMPB events? If so, can you please describe your experiences?

My first ICAMPAM was in 2015 in Limerick, and I've been to all the face-to-face and online conferences since! I really enjoy the way the programme is run for ICAMPAM and the opportunities to meet and collaborate with like-minded researchers. The ISMPB is great at making the posters a really important feature at ICAMPAM, so that there is dedicated time in the programme for people to showcase their work – something that not all conferences do. From Ceilidh dancing in Limerick, climbing in fountains in Bethesda, and redecorating statues in Maastricht, there have been some great highlights alongside all the sharing of research and

ideas. I am already looking forward to Rennes in 2024, my first as part of the ISMPB Board of Directors! #ICAMPAM2024

In the future, what would you like to see from the ISMPB?

I like the dedicated ECR events at ICAMPAM and would like to see mentorship opportunities within the ICAMPAM programme for both ECRs and MCRs. This could be informal “coffee” get togethers with senior researchers to run through ideas or to give advice for next steps.

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Google Scholar:

https://scholar.google.com/citations?hl=en&user=RZ_WW-wAAAAJ



CALL FOR ISMPB COMMITTEE MEMBERS

We would like to make an open call to ISMPB members to join and contribute to existing and new ISMPB committees.

Are you a regular tweeter? Enjoy writing blogs? Always keen to network? Could you assist with the **Communications and Membership Committee**?

If so please contact: a.m.clarke-cornwell@salford.ac.uk



Diversity, Equity and Inclusion (DEI) Committee

Are you an advocate for equality, diversity and inclusivity? As a Society, it is important to ensure we are continuing all efforts towards equality, diversity and inclusivity to better our community.

ISMPB Activities Committee

Do you have ideas for seminars/workshops or local conferences? Or would you like to join the conversation within the ISMPB Activities Committee in planning and facilitating an activity? Why not join and engage our existing members and enhance our ability to attract new members.

The NEW External Engagement Committee

Do you have experience working with industry? Experience collaborating with foundations and across societies? Why not join the NEW External engagement committee and guide and facilitate existing and new connections with external partners.

If you would be interested in joining any of the above committees, please contact: sharon@podiumconferences.com

For more information on the Committees:

<https://ismpb.org/committees/>

Journal for the Measurement of Physical Behaviour: Volume 5, Issue 4 (December 2022)



Original Research

Missing Step Count Data? Step Away From the Expectation–Maximization Algorithm

[Mia S. Tackney](#), [Daniel Stahl](#), [Elizabeth Williamson](#), and [James Carpenter](#)

CHAP-Adult: A Reliable and Valid Algorithm to Classify Sitting and Measure Sitting Patterns Using Data From Hip-Worn Accelerometers in Adults Aged 35+

[John Bellettiere](#), [Supun Nakandala](#), [Fatima Tuz-Zahra](#), [Elisabeth A.H. Winkler](#), [Paul R. Hibbing](#), [Genevieve N. Healy](#), [David W. Dunstan](#), [Neville Owen](#), [Mikael Anne Greenwood-Hickman](#), [Dori E. Rosenberg](#), [Jingjing Zou](#), [Jordan A. Carlson](#), [Chongzhi Di](#), [Lindsay W. Dillon](#), [Marta M. Jankowska](#), [Andrea Z. LaCroix](#), [Nicola D. Ridgers](#), [Rong Zablocki](#), [Arun Kumar](#), and [Loki Natarajan](#)

Integrity and Performance of Four Tape Solutions for Mounting Accelerometry Devices: Lolland-Falster Health Study

[Therese Lockenwitz Petersen](#), [Jan C. Brønd](#), [Eva Benfeldt](#), and [Randi Jepsen](#)

Evaluation of Two Thigh-Worn Accelerometer Brands in Laboratory and Free-Living Settings

[Alexander H.K. Montoye](#), [Olivia Coolman](#), [Amberly Keyes](#), [Megan Ready](#), [Jaedyn Shelton](#), [Ethan Willett](#), and [Brian C. Rider](#)

Agreement of Step-Based Metrics From ActiGraph and ActivPAL Accelerometers Worn Concurrently Among Older Adults

[Eric T. Hyde](#), [Steve Nguyen](#), [Fatima Tuz-Zahra](#), [Christopher C. Moore](#), [Mikael Anne Greenwood-Hickman](#), [Rod L. Walker](#), [Loki Natarajan](#), [Dori Rosenberg](#), and [John Bellettiere](#)

In this newsletter we are highlighting the December 2022 issue of JMPB. I am very pleased and excited to announce a call for papers for our very first JMPB special issue, guest edited by Alex Montoye, Kim Clevenger, Sam LaMunion and Jan Brønd. **Understanding Open-Source ActiGraph Counts** is looking for articles exploring the output and implications of the recent release by ActiGraph of an open source method for calculating their counts. More information can be found at: https://journals.humankinetics.com/fileasset/JMPB_CfP_Understanding-Open-Source-ActiGraph-Counts.pdf - and please reach out to the guest editors if you have an idea for a submission.

The December issue of JMPB showcased the broad range of the different types of article that can be published in the journal, including original research articles, systematic reviews, technical notes, and a brief report. The issue includes several articles comparing measurement between different devices or wear locations. It also has articles covering technical aspects in-depth, including how to deal with missing data and the more practical issue of device attachment methods.

The December issue also includes the abstracts from ICAMPAM 2022. I enjoyed attending ICAMPAM in person, it was nice to catch up with colleagues and hear about work that has been going on. But, of course, not everyone was able to attend in person, and it good to see the abstracts from both in-person and virtual attendees featured. **JMPB is still a young journal, but I am pleased to say that JMPB can now be found on Scopus, increasing visibility and access to our articles.** And remember - as ISMPB members you get a 50% discount if you opt to publish open access in JMPB.

Editor-in-Chief, Dr. Philippa Dall at philippa.dall@gcu.ac.uk.



Reviews

A Comparison of Wrist- Versus Hip-Worn ActiGraph Sensors for Assessing Physical Activity in Adults: A Systematic Review

[Nolan Gall](#), [Ruopeng Sun](#), and [Matthew Smuck](#)

The Assessment of 24-Hr Physical Behavior in Children and Adolescents via Wearables: A Systematic Review of Laboratory Validation Studies

[Marco Giurgiu](#), [Carina Nigg](#), [Janis Fiedler](#), [Irina Timm](#), [Ellen Rulf](#), [Johannes B.J. Bussmann](#), [Claudio R. Nigg](#), [Alexander Woll](#), and [Ulrich W. Ebner-Priemer](#)

Technical Notes

CRIB: A Novel Method for Device-Based Physical Behavior Analysis

[Paul R. Hibbing](#), [Seth A. Creasy](#), and [Jordan A. Carlson](#)

Investigating the Effects of Applying Different Actigraphy Processing Approaches to Examine the Sleep Data of Patients With Neuropathic Pain

[Hannah J. Coyle-Asbil](#), [Anuj Bhatia](#), [Andrew Lim](#), and [Mandeep Singh](#)

Brief Report

Impact of COVID-19 Pandemic on Physical Activity, Pain, Mood, and Sleep in Adults With Knee Osteoarthritis

[Michael J. Rose](#), [Michael P. LaValley](#), [S. Reza Jafarzadeh](#), [Kerry E. Costello](#), [Nirali Shah](#), [Soyoung Lee](#), [Belinda Borrelli](#), [Stephen P. Messier](#), [Tuhina Neogi](#), and [Deepak Kumar](#)

ICAMPAM Conference Abstracts

NOW PUBLISHED ONLINE!

The 8th International Conference on Ambulatory Monitoring of Physical Activity and Movement

[Please find the ICAMPAM 2022 Conference Abstracts here](#)



To subscribe to JMPB: <https://journals.humankinetics.com/page/subscribe/jmpb>

PROPASS ECR FELLOWSHIP PROGRAM

ProPASS ECR Fellowship Program

A unique opportunity to benefit from the mentorship of our senior researchers in submitting applications to pursue a ProPASS-related project



In collaboration with



Get in touch propass.consortium@sydney.edu.au



We are excited to announce that ProPASS *in collaboration with ISMPB* is launching an **ECR fellowship mentoring scheme!**

This is a great opportunity for talented candidates to benefit from the help and support of our senior researchers in submitting competitive fellowship applications to pursue a ProPASS-related project.

We are currently accepting **Expressions of Interest** for the scheme; more info can be found in the attached program description.

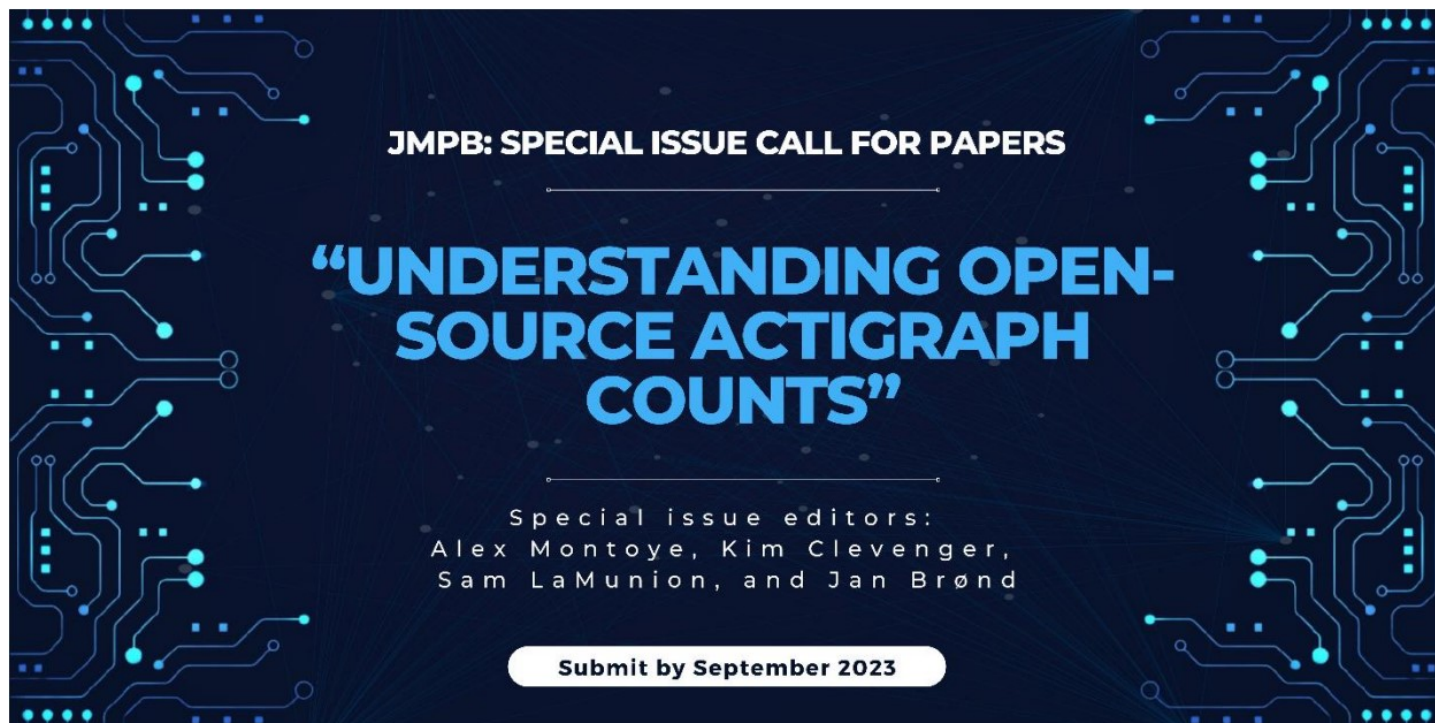
Any questions? Please feel free to get in touch with us or contact Dr. Annemarie Koster directly at

a.koster@maastrichtuniversity.nl

More information can be found here:

<https://www.propassconsortium.org/ecr-fellowship-description>

JMPB: SPECIAL ISSUE CALL FOR PAPERS



Scope

In February 2022, ActiGraph released a pre-print outlining an open-source method for generating ActiGraph counts from raw accelerometer data. This special issue in the Journal for the Measurement of Physical Behaviour (JMPB) is meant to explore the implications of this release. We aim to include studies across the full spectrum of accelerometer use, from shaker table to population-level surveillance. We also intend for this issue to include reflection on ways counts have been used and what place they may have in future analyses of accelerometer data. Note that while counts were originally developed for the ActiGraph accelerometer, counts can now be generated from any device brand, and papers do not need to include ActiGraph data to be considered for inclusion in this special issue.

Examples of topics may include, but are not limited to, the following:

- **Technical notes and guidance on how to calculate and implement open-source counts**
- **Data comparability across device brands and across models within a given device brand**
- **Analyses contrasting use of counts with other open-source methods such as MIMS, ENMO**

More information, such as the important dates, submission guidelines, reviewing process, and who to contact, please follow:

https://journals.humankinetics.com/fileasset/JMPB_CfP_Understanding-Open-Source-ActiGraph-Counts.pdf

MOBILISE-D CONSORTIUM (GLOBAL) AND DARE INITIATIVE (ITALY) SUMMER SCHOOL , 30TH JULY TO 4TH AUGUST, 2023—REGISTRATION OPEN!

Summer School: Digital Mobility Outcomes for Health Promotion and Prevention: Extracting actionable insights from real-world data

The **Mobilise-D consortium** and the Italian **DARE Initiative** are delighted to invite PhD students, early career researchers, health practitioners, patient organisations, technology developers, pharmaceutical representatives, and other interested professionals to our joint Summer School. The programme will combine the themes of digital technologies and preventive healthcare to improve disease prevention, intervention monitoring, and personalised healthcare, thereby fostering the shift to sustainable healthcare.

Outcomes: Understanding the power of integrating new digital tools and outcomes in clinical practice and in people's daily life to improve disease prevention, intervention monitoring and personalised healthcare.

Teaching methods: Enlightening presentations, use cases and challenges, group projects during the week, presentation of the projects, mentoring, social activities – and more surprises to come.

30th of July – 4th of August 2023, Bishop's Fortress of Bertinoro, Italy

 <p>When: 30th of July – 4th of August 2023</p> <p>Where: Bishop's Fortress of Bertinoro, Italy</p>	<p>The Mobilise-D consortium (global) and DARE Initiative (Italy) are delighted to invite PhD students, researchers, health practitioners, patient organisations, technology developers, pharmaceutical representatives and other interested professionals to their joint Summer School:</p> <p>Digital Mobility Outcomes for Health Promotion and Prevention: Extracting actionable insights from real-world data</p> <p>The programme combines the themes of digital technologies and preventive healthcare to foster the shift to sustainable healthcare.</p> <p>Outcomes: Understanding the power of integrating new digital tools and outcomes in clinical practice and in people's daily life to improve disease prevention, intervention monitoring and personalised healthcare.</p> <p>Teaching methods: enlightening presentations, use cases and challenges, group projects during the week, presentation of the projects, mentoring, social activities – and more surprises to come.</p> <p>More information coming soon – Stay tuned!</p> <p>  </p>
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If you have questions about the Summer School please contact mara.diaconu@ntnu.no.

TIME TO RENEW THE MEMBERSHIP

This ISMPB membership term runs from **October 1, 2022 to September 30, 2024**.

Membership in ISMPB is open to everyone from around the world involved in the measurement of free-living physical behaviour.

Membership fees support the mission of ISMPB in creating a vibrant community bringing together people from a wide variety of backgrounds and expertise, including researchers, clinicians, therapists, signal analysts, computational scientists and commercial companies.

Link <http://www.ismpb.org/membership/>

Member Benefits:

- ⇒ Reduced registration rates at official meetings/webinars organized by ISMPB, including the biannual ICAMPAM
- ⇒ Access to online subscription to the *Journal for the Measurement of Physical Behaviour*, the official journal of ISMPB, published quarterly by Human Kinetics
- ⇒ Join one of the ISMPB Committees and get directly involved in the activities of the society
- ⇒ Vote on Society matters and elections
- ⇒ Join colleagues from all over the world at the ISMPB meetings/e-meetings and create a global network
- ⇒ Quarterly e-newsletter with most important information from the Society

Fees:

Category	Dues
Student	\$95
Regular / Post Doc	\$175
All dues are in USD	



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